



# ***GREEN LAKE COUNTY***

*571 County Road A, Green Lake, WI 54941*

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**Original Post Date: 04/06/2023**

**Amended\* Post Date:**

**The following documents are included in the packet for the Parks Commission Meeting on April 10, 2023:**

- 1) Agenda
- 2) Minutes from 12/5/22
- 3) Dodge Park Ramp Repair
- 4) EZ Dock information
- 5) Vault Toilet Information
- 6) 5 Year Park Plan
- 7) Parks and Recreation Department Annual Report 2022
- 8) Budget Adjustment
- 9) Parks Report



# GREEN LAKE COUNTY OFFICE OF THE COUNTY CLERK

Elizabeth Otto  
County Clerk

Office: 920-294-4005  
FAX: 920-294-4009

## Parks Commission Meeting Notice

**Date: April 10, 2023 Time: 3:00 PM**

**Location: Government Center, County Board Room, 571 County Road A, Green Lake WI**

### AGENDA

#### Committee Members

William Boutwell, Chair  
Curt Talma, Vice- Chair  
Jerry Specht  
Charlie Wielgosh  
Todd Morris  
Vonn Roberts  
Michael Shattuck

Elizabeth Otto, Secretary

Virtual attendance at meetings is optional. If technical difficulties arise, there may be instances when remote access may be compromised. If there is a quorum attending in person, the meeting will proceed as scheduled.

1. Call to Order
2. Certification of Open Meeting Law
3. Pledge of Allegiance
4. Approval of Minutes: 12/05/2022
5. Public Comment (3 minute limit)
6. Dodge Memorial Park
  - Discussion regarding bids for ramp replacement
  - Funding of kayak launch
  - Boat wash station update
7. Review 5 Year Park Plan
8. Discussion and possible action on adding boat fee collection at all other ramp accesses
9. 2022 Annual Report
10. Budget Adjustment
11. Parks Report
  - Monthly Activities
12. Committee Discussion
  - Future Meeting Dates: TBD
13. Adjourn

This meeting will be conducted through in person attendance or audio/visual communication. Remote access can be obtained through the following link:

Microsoft Teams meeting

**Join on your computer, mobile app or room device**

[Click here to join the meeting](#)

Meeting ID: 287 369 525 852

Passcode: ypq8Gu

[Download Teams](#) | [Join on the web](#)

**Or call in (audio only)**

[+1 920-515-0745,,692944267#](#) United States, Green Bay

Phone Conference ID: 692 944 267#

[Find a local number](#) | [Reset PIN](#)

Please accept at your earliest convenience. Thank you!

[Learn More](#) | [Help](#) | [Meeting options](#) | [Legal](#)

Kindly arrange to be present, if unable to do so, please notify our office. Sincerely, Elizabeth Otto, County Clerk

**Please note: Meeting area is accessible to the physically disabled. Anyone planning to attend who needs visual or audio assistance, should contact the County Clerk's Office, 294-4005, not later than 3 days before date of the meeting.**

# PARKS COMMISSION

December 5, 2022

The regular meeting of the Parks Commission was called to order by Vice Chair Charlie Wielgosh on Monday, December 5, 2022 at 3:00 PM in the Green Lake County Board Room, Green Lake County Government Center, 571 County Road A, Green Lake, WI. The meeting was held both in person and via remote access. Requirements of the open meeting law were certified as being met. The pledge of allegiance was recited.

Present: Charlie Wielgosh  
Todd Morris  
Michael Shattuck  
Jerry Specht

Absent: Vonn Roberts  
Bill Boutwell  
Curt Talma

Other County Employees Present: Liz Otto, County Clerk; Scott Weir, Maintenance Supervisor; Cate Wylie, County Administrator; Gene Thom, Supervisor #19

## APPROVAL OF MINUTES

*Motion/second (Shattuck/Morris)* to approve the minutes of the September 12, 2022 meeting. Motion carried with no negative vote.

PUBLIC COMMENT – none

## DODGE MEMORIAL PARK

- **Discussion and possible action on replacement of ramps**

Discussion held on bids and possible contractors for the job of replacing the 2 ramps. Scott Weir stated the bids will be ready for publication in January and the work should be done by May 1.

- **Funding of kayak launch**

Discussion held on possible kayak launch. Wielgosh stated the launch in the City of Princeton has received a lot of use and works out well. Weir stated that boat launch funds can be used for this type of project.

## DISCUSSION ON BOAT LAUNCH FEES

County Clerk Liz Otto provided an update on current boat launch funds:

2022 revenues: \$48,865.00

2022 expenses: \$12,896.62

Capital Outlay fund (carryover): \$270,917.37

## GRANTS FOR PARK IMPROVEMENTS

Todd Morris stated that the Land Conservation office currently has a grant in progress with Golden Sands for invasive species control.

## ACQUISITION OF PARK LANDS

Discussion held regarding the acquisition of new park lands.

## PARKS REPORT

- **Monthly activities** – Scott Weir stated that the maintenance department is having problems again with garbage in

the restrooms at Sunset, Dodge, and Kingston parks. Discussion held on possible solutions to curb this activity. Wielgosh directed Weir to get prices for small dumpsters at those 3 parks.

**COMMITTEE DISCUSSION**

**Future Meeting Date:** February 6, 2023 @ 3:00 PM

**Future Agenda items for action & discussion:** handicap pier update & completion, update on boat launch station timeline and installation

**ADJOURNMENT**

Chair Boutwell adjourned the meeting at 3:29 PM.

Submitted by,

Liz Otto  
County Clerk

## Weir, Scott

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**From:** Calhoun-Kosiec, Cynthia A CIV USARMY CEMVP (USA)  
<Cynthia.A.Calhoun@usace.army.mil>  
**Sent:** Wednesday, March 29, 2023 3:09 PM  
**To:** Weir, Scott  
**Cc:** michelle.soderling@wisconsin.gov  
**Subject:** Dodge park Boat Ramp Repairs (-00985)  
**Attachments:** NWP 36.pdf

[CAUTION: EXTERNAL SENDER This email originated from outside Green Lake County. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

Dear Mr. Weir,

The Army Corps of Engineers has received your application to replace the concrete ramps of an existing boat landing at the Green Lake County Dodge Park Boat Ramp on the Big Green Lake, in the town of Green Lake, Green Lake county. After reviewing the application, this does **not** trigger any reporting/application requirements, so long as they comply with all of the **Nationwide Permit 36-Boat Ramp** conditions. **You technically do not need an NWP 36 verification letter from us for this project prior to starting work.**

For your convenience we have attached the **NWP 36** or it can be found

<https://www.mvp.usace.army.mil/Portals/57/docs/regulatory/NWPs/2021/NWP%2036%20terms%20and%20conditions%202021.pdf?ver=PMrWijD-1cdjI8I-VwoRw%3d%3d>.

**Please respond within 10 days if you have any questions.**

Cynthia A. Calhoun-Kosiec  
Environmental Protection Technician  
West Branch Office  
(651)290-5876  
[Cynthia.A.Calhoun@usace.army.mil](mailto:Cynthia.A.Calhoun@usace.army.mil)

**\*\*We are pleased to introduce our new paperless communication procedures in Wisconsin. Requests for action (pre-application consultations, permit applications, requests for delineation concurrences, requests for jurisdictional determinations, and mitigation bank proposals) should be sent directly to the following email:**

**[usace\\_requests\\_wi@usace.army.mil](mailto:usace_requests_wi@usace.army.mil)**. Please include the county name in the subject line of the email (e.g. Washington County). These changes will improve efficiency, reduce costs and reduce environmental footprint. Additional information can be found in our public notice located here:

**<http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>\*\***

Our office currently handles: Douglas, Bayfield, Ashland, Iron, Vilas, Forest, Florence, Burnett, Washburn, Sawyer, Price, Oneida, Polk, Barron, Rusk, Taylor, Lincoln, Langlade, St. Croix, Dunn, Chippewa, Taylor, Marathon, Shawano, Pierce, Pepin, Eau Claire, Clark, Wood, Portage, Waupaca, Buffalo, Trempealeau, Jackson, La Crosse, Monroe, Juneau, Adams, Waushara, Marquette, Green Lake, Vernon, Crawford, Richland, Sauk, Columbia, Grant, Iowa, Dane, Lafayette and Green Counties.

36. Boat Ramps. Activities required for the construction of boat ramps, provided the activity meets all of the following criteria:

(a) The discharge into waters of the United States does not exceed 50 cubic yards of concrete, rock, crushed stone or gravel into forms, or in the form of pre-cast concrete planks or slabs, unless the district engineer waives the 50 cubic yard limit by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(b) The boat ramp does not exceed 20 feet in width, unless the district engineer waives this criterion by making a written determination concluding that the discharge will result in no more than minimal adverse environmental effects;

(c) The base material is crushed stone, gravel or other suitable material;

(d) The excavation is limited to the area necessary for site preparation and all excavated material is removed to an area that has no waters of the United States; and,

(e) No material is placed in special aquatic sites, including wetlands.

The use of unsuitable material that is structurally unstable is not authorized. If dredging in navigable waters of the United States is necessary to provide access to the boat ramp, the dredging must be authorized by another NWP, a regional general permit, or an individual permit.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if:

(1) The discharge into waters of the United States exceeds 50 cubic yards, or

(2) the boat ramp exceeds 20 feet in width. (See general condition 32.) (Authorities: Sections 10 and 404)

## 2017 Nationwide Permits St. Paul District Regional and General Conditions

To qualify for NWP authorization, the prospective permittee must comply with the following regional and general conditions, as applicable, in addition to any regional or case specific conditions imposed by the division engineer or district engineer. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

### The following Regional Conditions are applicable to all NWPs:

#### Nationwide Permit (NWP) Limitations:

- A. **Discretionary authority:** As allowed under 33 CFR 330.1(d), the District retains discretionary authority to require an individual permit of any activity eligible for authorization by a NWP based on concern for the aquatic environment or for any other factor of the public interest.
- B. **Limit on Tributary Impacts:** Any regulated activity that would result in the loss of greater than 500 linear feet of a tributary in a single location is not authorized by a NWP with the exception of projects verified by NWPs 13, 27, 32, 37, 53 or 54 where the permanent alteration would have an overall beneficial effect on the aquatic ecosystem associated with discharges proposed. A waiver from the specifications in this Regional Condition may be requested in writing. The waiver will only be issued if it can be demonstrated that permanent alteration of the tributary would have an overall beneficial effect on the aquatic ecosystem associated with the discharges proposed. This regional condition does not expand the limitations of a specific NWP where that NWP is more restrictive.
- C. **Linear Projects:** No linear utility or linear transportation projects are eligible for authorization by NWPs. These projects will be reviewed for authorization under the St. Paul District's regional or programmatic general permits or an individual permit.
- D. **Great Lakes Compact:** No project or part of a project that would divert more than 10,000 gallons per day of surface or ground water into or out of the Great Lakes Basin is authorized by NWPs.
- E. **Tribal Rights:** As stated in General Condition 17 of the NWPs, no activity may impair tribal rights, including treaty rights, protected tribal resources or tribal lands.
- F. **Areas under a Special Area Management Plan:** Regulated activities located within an area eligible for authorization under a valid Special Area Management Plan with an associated programmatic general permit are ineligible for authorization by NWPs.
- G. **Designated Critical Resource Water:** The Lake Superior National Estuarine Research Reserve is a designated critical resource water and is subject to the NWP limitations and PCN requirements described in General Condition #22 of the NWPs.
- H. **Calcareous fens:**  
**WISCONSIN:** No work in a calcareous fen is authorized by a NWP unless the Wisconsin Department of Natural Resources (WI DNR) has approved an individual permit for the proposed regulated activity. Project proponents must provide evidence of an approved individual permit to the District.  
**MINNESOTA:** No work in a calcareous fen is authorized by a NWP unless the Minnesota Department of Natural Resources (MN DNR) has approved a calcareous fen management plan specific to a project that otherwise qualifies for authorization by a NWP. Project proponents must provide evidence of an approved fen management plan to the District. A list of known Minnesota calcareous fens can be found at: [http://files.dnr.state.mn.us/eco/wetlands/calcareous\\_fen\\_list.pdf](http://files.dnr.state.mn.us/eco/wetlands/calcareous_fen_list.pdf).

#### Pre-Construction Notification (PCN) Requirements for Specific Water/Places

- I. **PCNs for Special Aquatic Resources:** A project proponent must notify the District by submitting a PCN if a regulated activity would occur in any of the following aquatic resources. **Prior to beginning work in these waters, a District NWP verification letter must be received.**

##### PROJECTS IN WISCONSIN:

- (1) state-designated wild rice waters (<https://data.gliwfc.org/manoomin.harvest.info>);
- (2) coastal plain marshes;
- (3) bog wetland plant communities;
- (4) interdunal wetlands;
- (5) Great Lakes ridge and swale complexes;

The complete Ramsar list is available at (<https://rsis.ramsar.org/>).

More information about plant community types 2-5 listed above, may be obtained from the Wisconsin Department of Natural Resources website at: <http://dnr.wi.gov/topic/EndangeredResources/Communities.asp?mode=group&Type=Wetland>.

Additional information on identifying bog and fen communities can be found at: <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

##### PROJECTS IN MINNESOTA:

- (1) wild rice waters listed in Appendix A of these conditions and identified in Minn. R. 7050.0470, subpart 1;

Additional information on identifying bog and fen communities can be found at: <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx> and at the MN DNR's Native Plant Community Classification's website: <http://www.dnr.state.mn.us/npc/classification.html>.

- (6) fens; and
- (7) wetland sites designated of international importance under the Ramsar Convention, including: the Horicon Marsh, Upper Mississippi River Floodplain Wetland, Kakagon and Bad River Slough, Door Peninsula Coastal Wetlands, Chikaukee Illinois Beach Lake Plain.

- (2) bog wetland plant communities; and
- (3) fens.

- J. **PCNs for Bridges, Structures, and Vessels more than 50 years old:** A project proponent must notify the District by submitting a PCN if work or fill requiring District authorization would affect a bridge, structure or permanently moored or sunken vessels more than 50 years old.
- K. **PCNs for Suspected Sediment or Soil Contamination:** A project proponent must notify the District by submitting a PCN if any regulated activity would occur in areas of known or suspected sediment or soil contamination, including but not limited to Superfund sites. Superfund sites in Minnesota or Wisconsin can be located by searching the EPA's website: <https://www.epa.gov/superfund/search-superfund-sites-where-you-live>. This condition does not apply to NWP 20. Response Operations for Oil or Hazardous Substances.
- L. **PCNs for the Apostle Islands National Lakeshore and Madeline Island:** A project proponent must notify the District by submitting a PCN if the regulated activity would result in the work, fill or placement of a structure within the boundaries of the Apostle Islands National Lakeshore or Madeline Island in Wisconsin. **Prior to beginning regulated activities in these waters, a District NWP verification letter must be received.**
- M. **PCNs for Temporary Impacts:** A project proponent must notify the District by submitting a PCN if temporary impacts would remain in place for longer than 90 days between May 15 and November 15. The PCN must specify how long the temporary impact will remain and include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions. See also Regional Condition Q.

#### Mitigation Requirements

- N. **Compensatory Mitigation:** Proposed projects that require a PCN must include a statement describing how permanent *and* temporary impacts to waters of the U.S. would be avoided and minimized. The PCN must also include either: (a) a statement describing how impacts to waters of the U.S. would be compensated in accordance with the Federal Mitigation Rule (33 CFR Part 332) and the current St Paul District Policies for Compensatory Mitigation or (b) a statement explaining why compensatory mitigation should not be required for the proposed impacts.

## Site Protection

- O. **Site Inspection:** The permittee shall allow representatives from the District to inspect the proposed project site and the authorized activity to ensure that it is being, or has been, constructed and maintained in accordance with the NWP authorization.
- P. **Restoration for Temporary Impacts:** All temporary impacts in waters of the U.S., including wetlands, that occur as a result of the regulated activity must be fully contained with appropriate erosion control or containment methods, be restored to preconstruction contours and elevations, and revegetated with native, non-invasive vegetation. A project proponent may request, in writing, a waiver from this condition from the District. An acceptable reason for a waiver to this condition may include, but is not limited to, the District allowing natural restoration of the site when the resulting grade and existing seed bank are sufficient for the site to restore to pre-construction conditions.
- Q. **Duration of Temporary Impacts:** Temporary impacts in waters of the U.S., including wetlands, must be avoided and limited to the smallest area and the shortest duration required to accomplish the project purpose.
- PART A, ACTIVITIES WITHOUT PCN REQUIREMENTS:  
Temporary impacts may not remain in place longer than 90 days between May 15 and November 15. Before those 90 days have lapsed all temporary discharges must be removed in their entirety. If the temporary impacts would remain in place for longer than 90 days between May 15 and November 15, a PCN is required and the activity is subject to the requirements and limitations described in part B of this regional condition.
- PART B, ACTIVITIES WITH PCN REQUIREMENTS:  
The PCN must specify how long the temporary impact will remain and include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions. Temporary impacts are allowed to stay in place as long as specified in the PCN unless otherwise conditioned in a Corps NWP verification. All temporary impacts must be removed in their entirety in accordance with the plan described in the PCN unless otherwise conditioned in a NWP verification provided by the District.
- R. **Culverts and Crossings:** Unless a NWP verification authorizes otherwise, replacement and installation of culverts or crossings authorized by a NWP are to follow (or be restored to) the natural alignment and profile of the tributary. The culvert(s) or bridge(s) must adequately pass bedload, sediment load, and provide site-appropriate fish and wildlife passage. Example design elements include recessing single culverts to accommodate natural bankfull width and adjusting additional culvert inverts at an elevation higher than the bankfull elevation.
- S. **Best Management Practices:** To minimize adverse effects from soil loss and/or sediment transport that may occur as a result of the authorized discharge and associated earth work, appropriate best management practices shall be maintained and remain in place until the affected area is stabilized with vegetation or ground cover.
- T. **Riprap:** For all NWPs that allow for the use of riprap material for bank stabilization, only rock shall be used and it must be of a size sufficient to prevent its movement from the authorized alignment by natural forces under normal or high flows. A project proponent may request from the District, in writing, approval to use alternative riprap materials.
- U. **Pollutant or Hazardous Waste Spills:** If a spill of any potential pollutant or hazardous waste occurs, it is the responsibility of the permittee to immediately notify the National Response Center at 1-800-424-8802 or [www.nrc.uscg.mil](http://www.nrc.uscg.mil) AND  
**IN WISCONSIN:** the Wisconsin Department of Natural Resources' Spills Team at 1-800-943-0003  
**IN MINNESOTA:** the Minnesota State Duty Officer at 1-800-422-0798.  
The permittee is responsible for removing such pollutants and hazardous materials and for minimizing any contamination resulting from a spill in accordance with state and federal laws.
- V. **Clean Construction Equipment:** All construction equipment must be clean prior to entering and before leaving the work site in order to prevent the spread of invasive species.
- W. **Compliance:** The permittee is responsible for ensuring that whoever performs, supervises or oversees any portion of the physical work associated with the construction of the project has a copy of and is familiar with all the terms and conditions of the NWP and any special conditions included in any written verification letter from the District. The permittee is ultimately responsible for ensuring that all the terms and conditions of the NWPs are complied with.

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## The following General Conditions are applicable to all NWPs:

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### 1. Navigation.

(a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. **Shellfish Beds.** No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. **Suitable Material.** No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. **Water Supply Intakes.** No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. **Adverse Effects from Impoundments.** If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. **Management of Water Flows.** To the maximum extent practicable, the preconstruction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or



high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

**10. Fills Within 100-Year Floodplains.** The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

**11. Equipment.** Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

**12. Soil Erosion and Sediment Controls.** Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

**13. Removal of Temporary Fills.** Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

**14. Proper Maintenance.** Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

**15. Single and Complete Project.** The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

**16. Wild and Scenic Rivers.**

(a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or Study River (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

**17. Tribal Rights.** No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

**18. Endangered Species.**

(a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete preconstruction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs.

(e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their World Wide Web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

**19. Migratory Birds and Bald and Golden Eagles.** The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to

determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

## **20. Historic Properties.**

(a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed.

(d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

**21. Discovery of Previously Unknown Remains and Artifacts.** If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

**22. Designated Critical Resource Waters.** Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

**23. Mitigation.** The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns.

Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWP, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)).

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

**24. Safety of Impoundment Structures.** To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

**25. Water Quality.** Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

**26. Coastal Zone Management.** In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

**27. Regional and Case-By-Case Conditions.** The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 **Water Quality Certification**, or by the state in its **Coastal Zone Management Act consistency determination**.

**28. Use of Multiple Nationwide Permits.** The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

**29. Transfer of Nationwide Permit Verifications.** If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature "When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

\_\_\_\_\_  
(Transferee)

\_\_\_\_\_  
(Date)

**30. Compliance Certification.** Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible

mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

**31. Activities Affecting Structures or Works Built by the United States.** If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

**32. Pre-Construction Notification.**

(a) **Timing.** Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a preconstruction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

- (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or
- (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) **Contents of Pre-Construction Notification:** The PCN must be in writing and include the following information:

- (1) Name, address and telephone numbers of the prospective permittee;
- (2) Location of the proposed activity;
- (3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;
- (4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);
- (5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;
- (6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.
- (7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;
- (8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) Agency Coordination:

(1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for:

(i) all NWP activities that require preconstruction notification and result in the loss of greater than 1/2-acre of waters of the United States;

(ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed;

(iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and

(iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

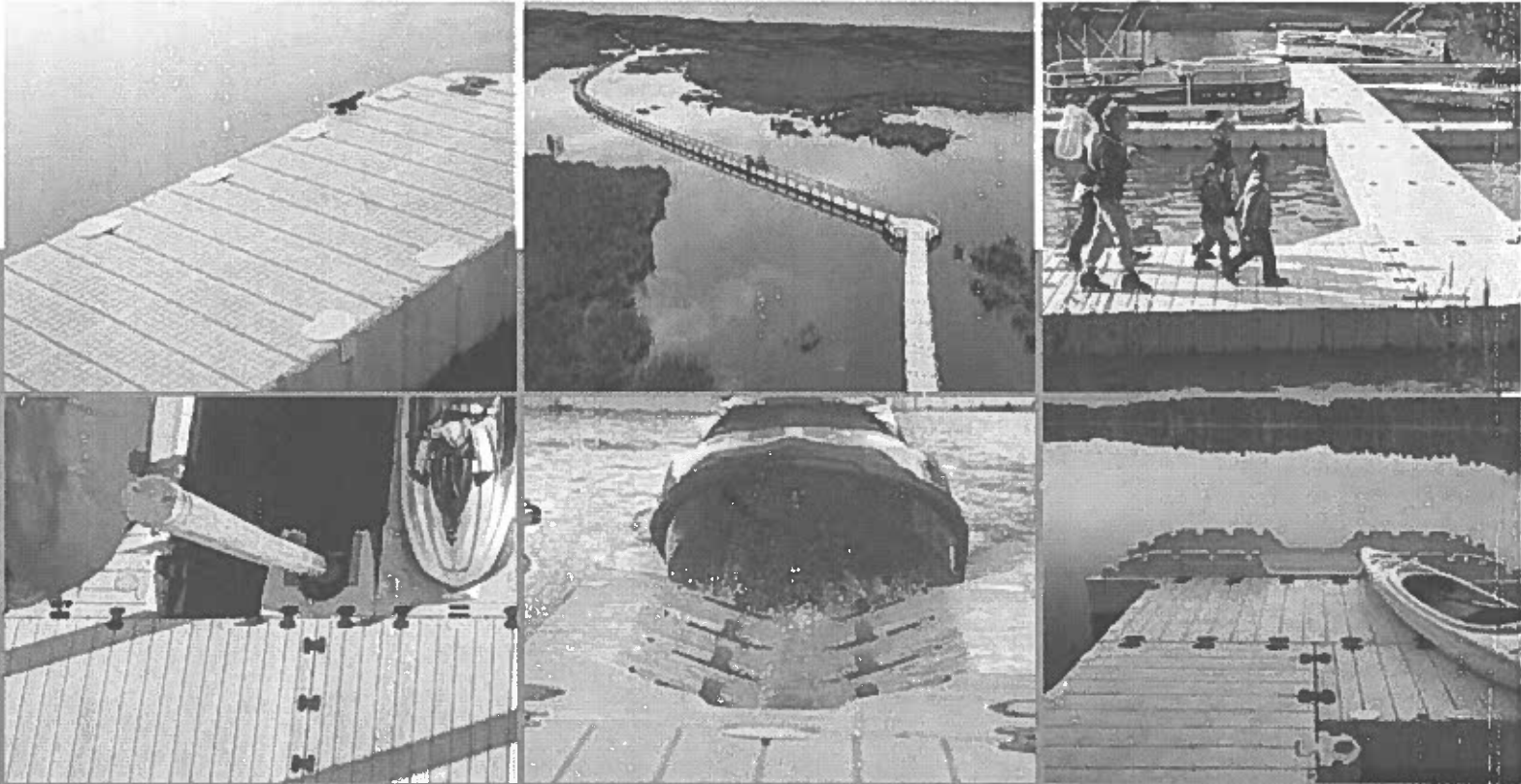
(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.



# PRODUCT SPECIFICATION GUIDE

## 2022



### Low Maintenance and Barefoot Friendly

- EZ Dock polyethylene docks are durable and slip resistant
- Won't splinter or rot, never needs painting
- Cleans easily with soap and water



### Adaptable Design

- Unique design delivers outstanding load capacity, functionality, and safety
- Variety of dock sections, boat/PWC lifts, and launches for kayaks
- Easily customizable design to make your perfect waterfront retreat



### Flexible Flotation Technology

- Flotation chambers constructed for optimal strength and structural integrity
- Designed to provide additional stability on the water
- Dock sections adapt easily to changing water conditions and levels



### Innovative Coupling

- Made of recycled materials
- Nuts and bolts made of heavy duty, rust resistant composite
- Strength and durability even in the harshest weather conditions



### American Made

- Proudly for 30 years

For questions about features, operation/performance, parts, accessories, or installation, call your local EZ Dock dealer.

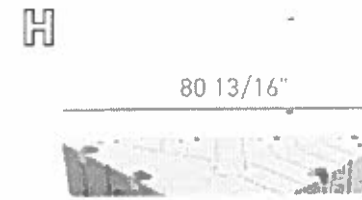
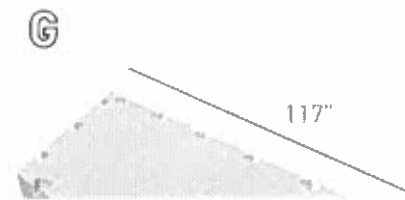
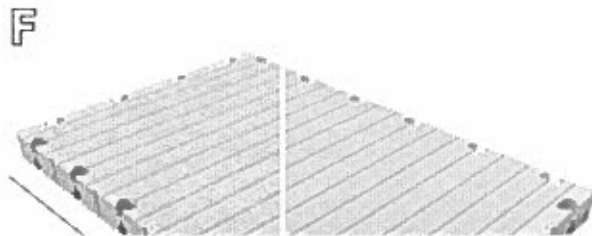
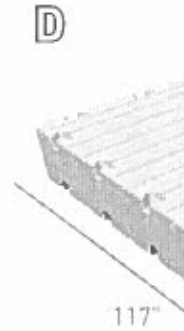
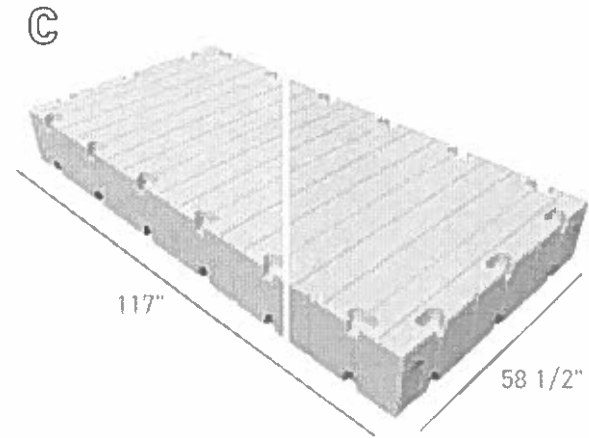
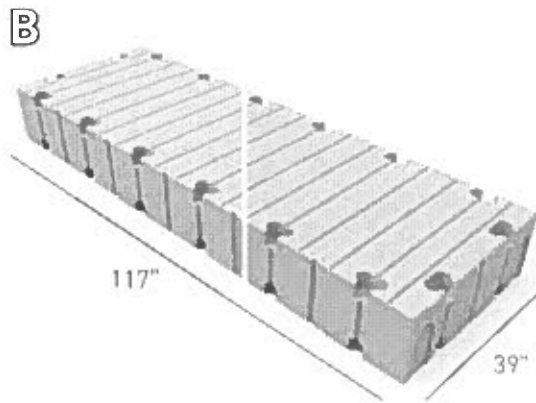
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|---|-------------|------------------------------|---------|-------------------------|
| A | 204060      | Baby Dock Section            | Beige ● | 39" X 58-1/2" X 14"     |
|   | 204060-EZGR |                              | Grey ○  |                         |
| B | 204010      | 40" Dock Section             | Beige ● | 39" X 117" X 14"        |
|   | 204010-EZGR |                              | Grey ○  |                         |
| C | 206010      | 60" Dock Section             | Beige ● | 58-1/2" X 117"          |
|   | 206010-EZGR |                              | Grey ○  |                         |
| D | 208010      | 80" Dock Section             | Beige ● | 78" X 117" X 14"        |
|   | 208010-EZGR |                              | Grey ○  |                         |
| E | 208008      | 100" Dock Section            | Beige ● | 98" X 78" X 14"         |
|   | 208008-EZGR |                              | Grey ○  |                         |
| F | 158010      | 80" Low Profile Dock Section | Beige ● | 78" X 117" X 7"         |
|   | 158010-EZGR |                              | Grey ○  |                         |
| G | 260120      | Half Hex Dock Section        | Beige ● | 58-1/2" X 59" X 14"     |
|   | 260120-EZGR |                              | Grey ○  |                         |
| H | 300503      | Tri Dock Section             | Beige ● | 58-1/8" X 58-1/8" X 14" |
|   | 300503-EZGR |                              | Grey ○  |                         |
| I | 301100      | Coupler Set w/ Hardware      | Black ● |                         |



port, with no winching, cranking, pumping, or hoisting needed.

#### Flexibility

All EZ Ports can be linked together and easily adapted to other floating and fixed docks using our revolutionary EZ Port® coupler system with EZ Dock connectors.

#### Stability

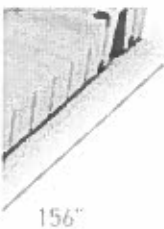
Our proprietary flotation chamber and pylon design provides enhanced buoyancy and stability to reduce movement even in rough water and stormy conditions. EZ Port also provides plenty of space on the front and either side of the port to allow PWC users to find their footing comfortably.

#### Protection

EZ Port PWC lifts move with changing water levels, protecting personal watercraft from waves, wind, and the damage they can cause. Our personal watercraft ports are also covered by an industry-leading 8-year warranty.

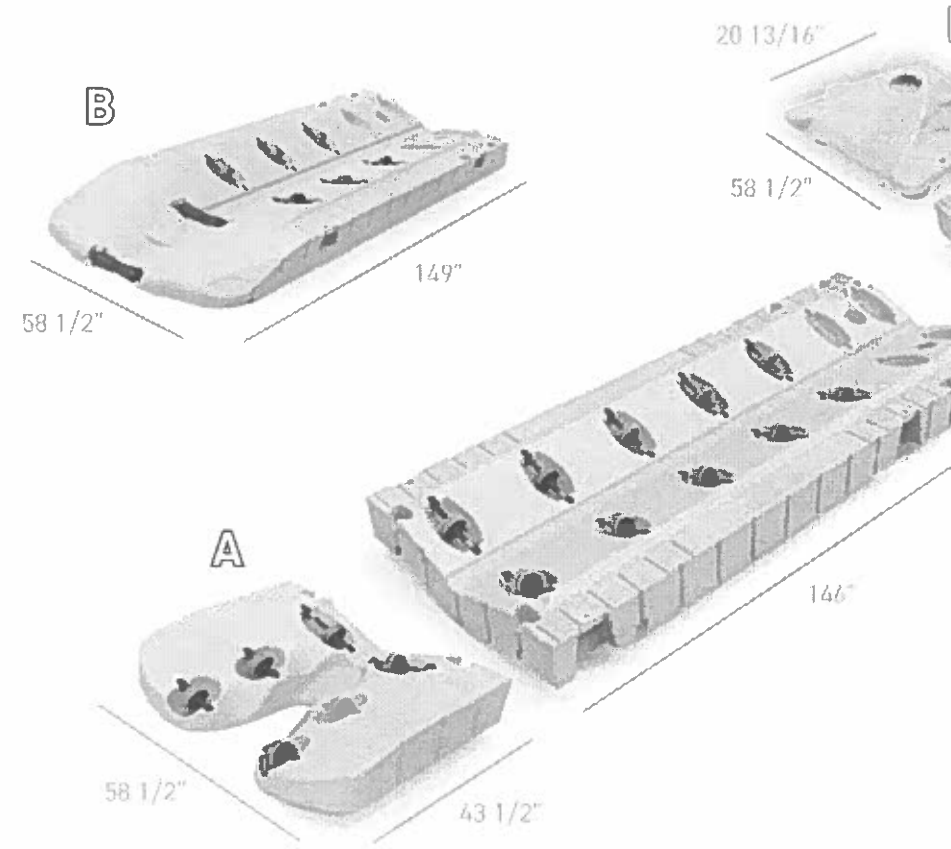
#### Low maintenance and barefoot friendly

EZ Dock's polyethylene ports are durable and slip resistant. They won't splinter or rot and never need painting. They are easy to clean with a pressure washer or EPA-approved cleaning solutions.



shapes. The EZ Port MAX is one of the most flexible options available and can be customized to maximize slip spaces with tandem inlines that help you accommodate more PWC's per slip. Just configure the design that best suits your waterfront and adjust the design any time your needs change.

**The EZ Port MAX is a flexible system designed for single, multiple, or inline ports to accommodate multiple PWC's.**



| Model       | Color   | Size                     | Weight   |
|-------------|---------|--------------------------|----------|
| EZ Port 280 | Beige ● | 156" x 78" x 14-5/8"     | 330 lbs. |
|             | Grey ●  |                          |          |
| EZ Port VXP | Beige ● | 153" x 58-1/2" x 14-5/8" | 325 lbs. |
|             | Grey ●  |                          |          |
|             | Beige ● |                          |          |
| EZ Port 280 | Beige ● | 148" x 58-1/2" x 14-5/8" | 350 lbs. |

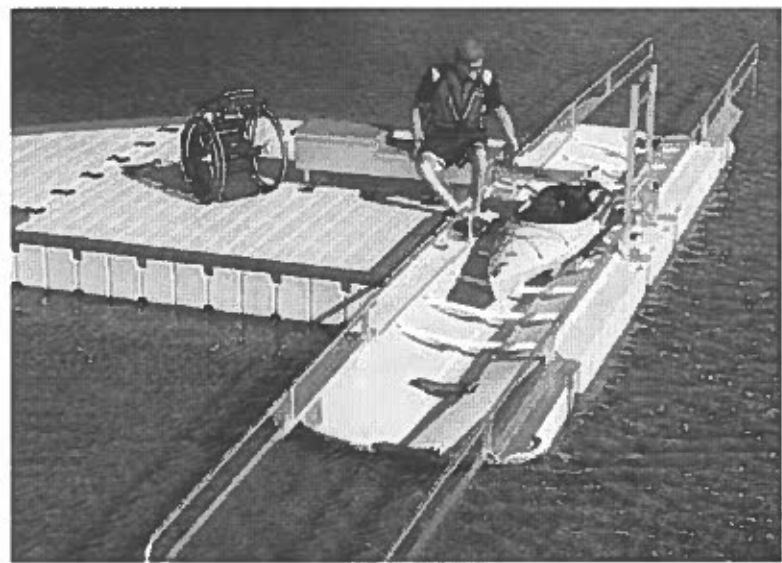
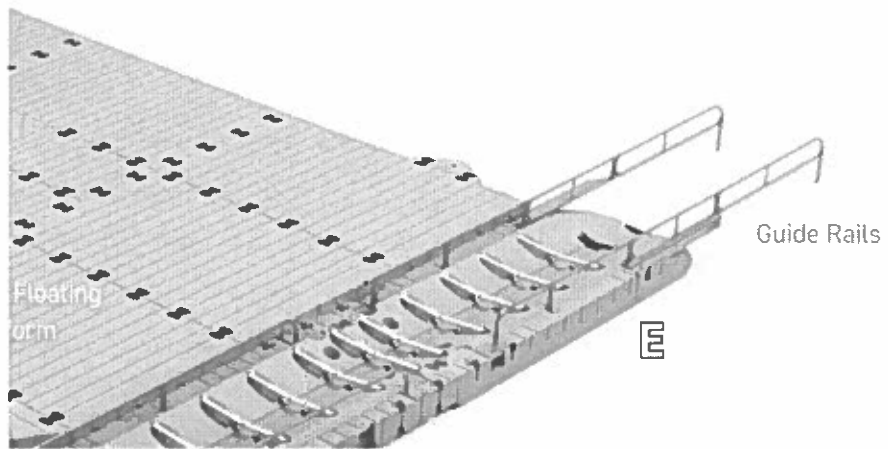
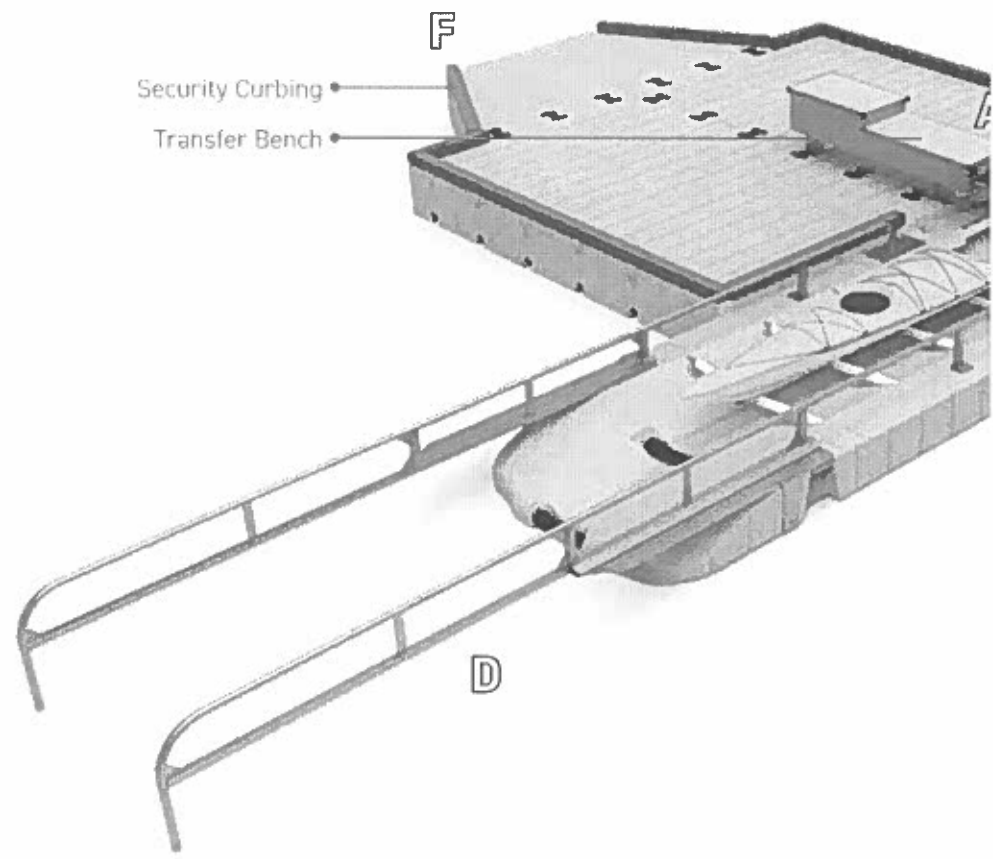
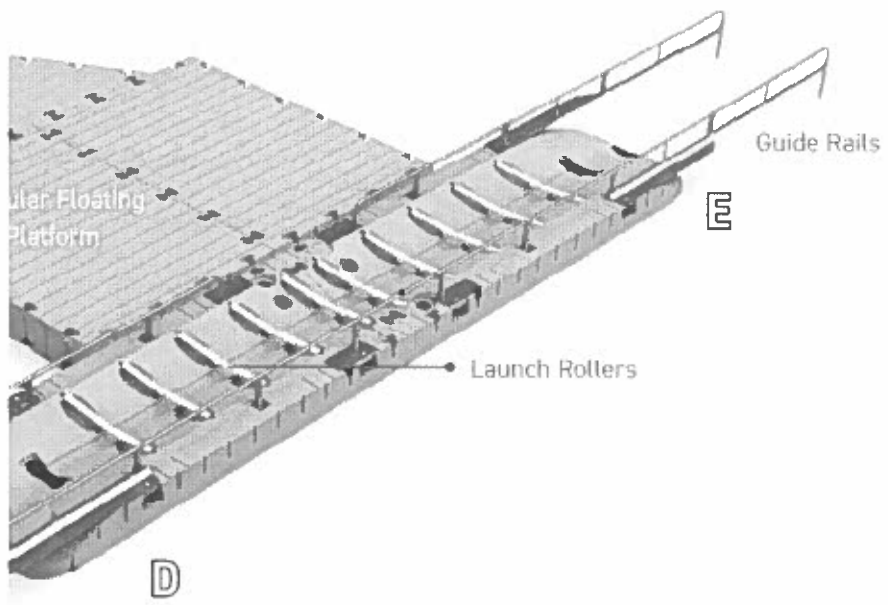
| Part #                 | Model                       | Color |
|------------------------|-----------------------------|-------|
| 206033EX               | EZ Port MAX Easy-Lift Entry | Beige |
| <b>A</b> 206033EX-EZGR |                             | Grey  |
| 206030PW               | EZ Port MAX Entry           | Beige |
| <b>B</b> 206030PW-EZGR |                             | Grey  |
| 203031PW               | EZ Port MAX Extension       | Beige |
| <b>C</b> 203031PW-EZGR |                             | Grey  |
| 206025B5               |                             | Beige |



For individuals with disabilities, the use of the transfer bench is a simple sit, slide and use the side rails to

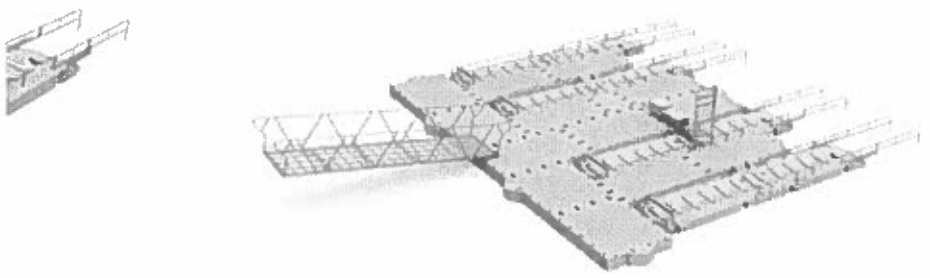
- Guide Rails for easy access in and out of the water
- Launch rollers for easy movement of the watercraft
- Floating platform that adjusts to changing water levels

- Transfer bench with two heights for easy transfer from wheelchair
- Transfer slide board with two heights for differing watercraft sizes
- Railing system for slide board stabilization & support for easy movement



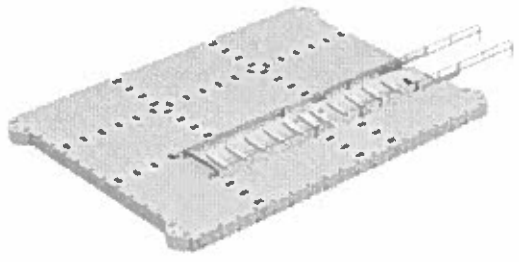
|   | Part #   |
|---|----------|
| A | 5008900  |
| B | 100757SS |
| C | 500901   |
| D | 500900L  |
| E | 500900R  |

- Dock entry enables stable, dry entry.
- Launch-assist paddle notches support easy entry/exit. V-shaped entry centers vessel.
- Engineered to connect with virtually any dock (EZ Dock or any other dock).\*
- Fits canoes, tandem kayaks, stand-up paddleboards, etc.



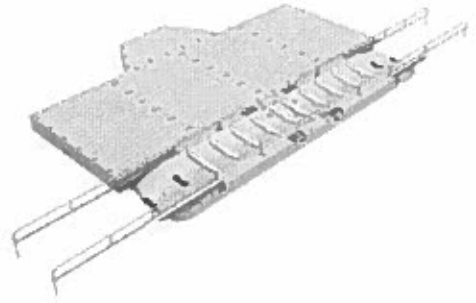
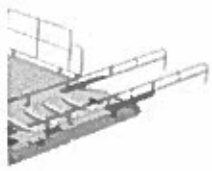
& Boat Slip

**EZ Launch® One-way & Extra-Large Platform**

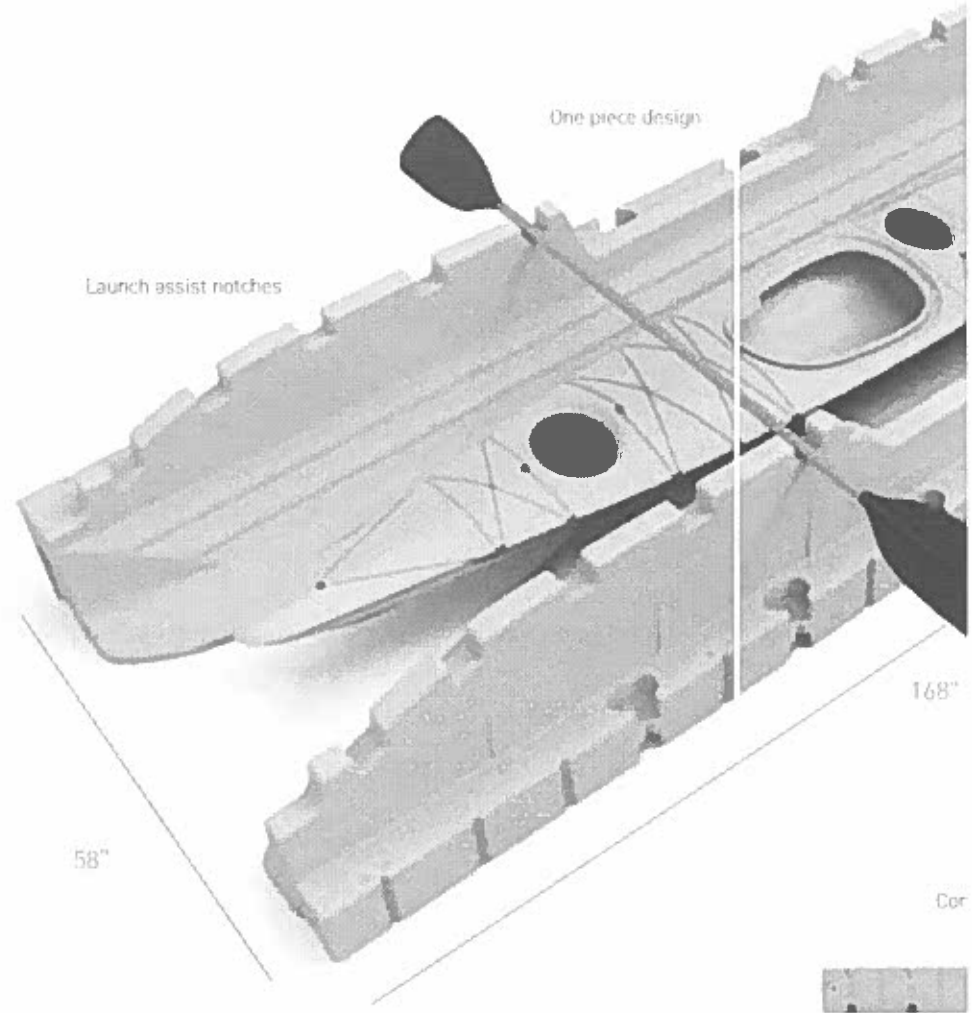
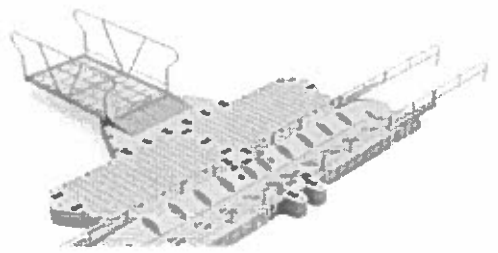


Bench,

**EZ Launch® Drive Thru with Large Platform**



**EZ Launch® Drive Thru with Small Platform**

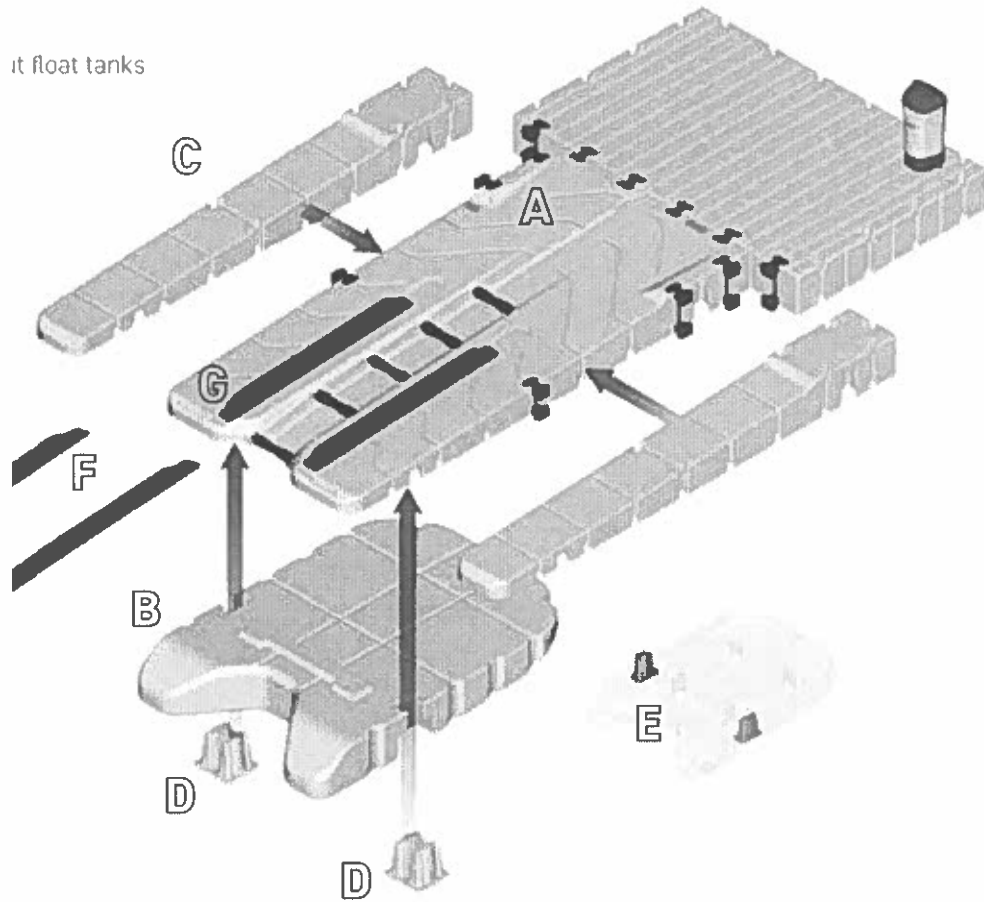


| Part #      | Model                | Color |
|-------------|----------------------|-------|
| 200900      | EZ Launch for Kayaks | B     |
| 200900-EZGR |                      | C     |



1 sizes

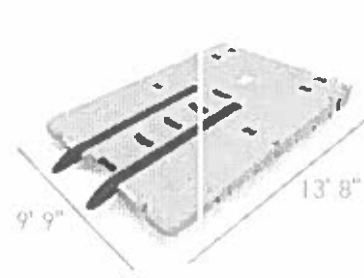
it float tanks



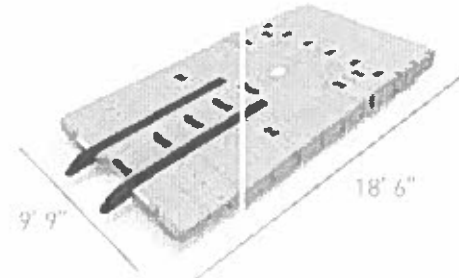
|                     | Color                       | Size                 | Weight   | Floatation |
|---------------------|-----------------------------|----------------------|----------|------------|
| Port                | Beige <input type="radio"/> | 164" x 78" x 14-5/8" | 500 lbs. | 2000 lbs.  |
|                     | Grey <input type="radio"/>  |                      |          |            |
| Port Float Tank     | Beige <input type="radio"/> | 111" x 78" x 19.625" | 240 lbs. | 2000 lbs.  |
|                     | Grey <input type="radio"/>  |                      |          |            |
| Port Side Extension | Beige <input type="radio"/> | 164" x 20" x 14.625" | 140 lbs. | 500 lbs.   |
|                     | Grey <input type="radio"/>  |                      |          |            |
| Port H Connector    | Beige <input type="radio"/> | 13.5" x 7.5" x 12"   | 15 lbs.  | N/A        |
|                     | Grey <input type="radio"/>  |                      |          |            |
| Port T Connector    | Beige <input type="radio"/> | 13.5" x 7.5" x 12"   | 7 lbs.   | N/A        |
|                     | Grey <input type="radio"/>  |                      |          |            |

Long (L) and Short(S) bunk options.

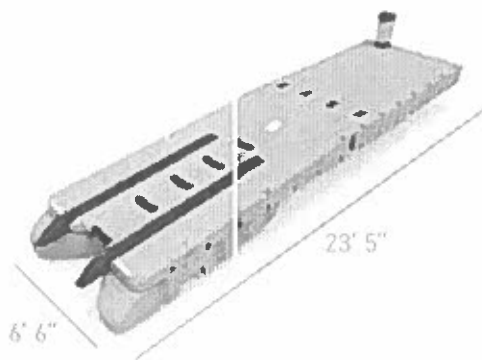
**EZ BoatPort with Side Extensions** 140 sf  
BP3000-EZGR, BP3000



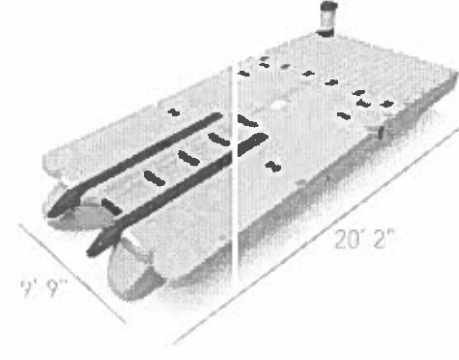
**EZ BoatPort with Side Extensions & Large Platform** 190 sf  
BP3001-EZGR, BP3001



**EZ BoatPort with Float Tank, Air Assist, & Large Platform** 156 sf  
BP4001-EZGR, BP4001



**EZ BoatPort with Side Extensions, Float Tank, & Air Assist** 205 sf  
BP5000-EZGR, BP5000

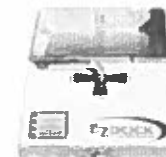


## AIR ASSIST PUMPS

**Manual, 110VAC, Kit**

600053

16" x 14" x 20"



**Remote, 110VAC, Kit**

600052-EZGR, 600052

16" x 14" x 20"

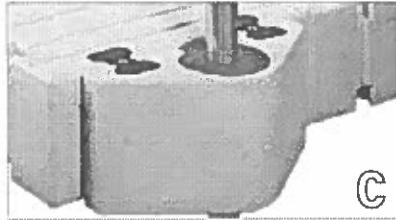


Dock anchoring products are made from long-lasting, durable materials that can help you select the anchoring system that's right for your location.



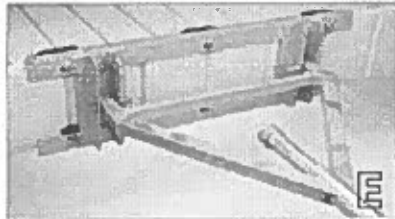
### HEAVY-DUTY PIPE BRACKET

Heavy-duty polyethylene pipe bracket allows docks to adjust to changing water levels.



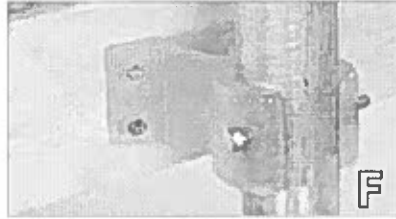
### HEAVY DUTY PIPE BRACKET W/ INSERT

Heavy-duty polyethylene pipe bracket allows docks to adjust to changing water levels.



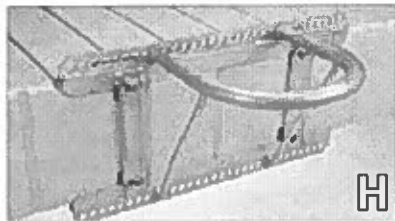
### STIFF-ARM HEAVY DUTY BRACKET

Anchor to a shoreline abutment or to a shoreline post. Light-duty also available.



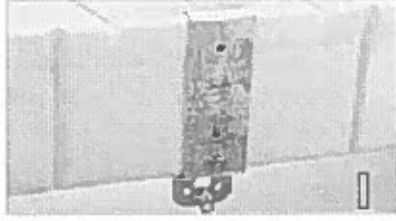
### POLY PIPE STAND-OFF BRACKET

Bracket attaches top of pipe to stationary docks. Fits pipe from 2.5" to 3.5" O.D.



### PILING BRACKET AND HOOPS

Predrilled for hoops (sold separately) and includes nuts and connectors. SS hardware available.



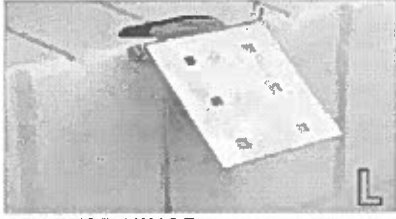
### DEADWEIGHT BRACKET

For light-duty anchoring with chain and/or to attach 4" (10cm) x 4" (10cm) railing or mooring posts. Sold in pairs. Chain sold separately.



### DEADWEIGHT WINCH INSERT

Deadweight insert and cable winch added to our polyethylene pipe bracket allows easy dock adjustment for water fluctuations. Cable sold separately.



### ADAPTOR HINGE

Reversible hinge allows EZ Port PWC lifts or EZ Dock sections to be attached to other floating docks.

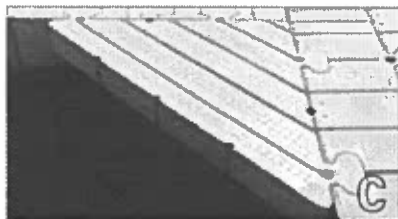
|        | Part #        | Model                                 |                                     |
|--------|---------------|---------------------------------------|-------------------------------------|
| A      | 135250(-EZGR) | Standard Pipe Bracket                 |                                     |
|        | 135350(-EZGR) |                                       |                                     |
| B      | 215250(-EZGR) | Heavy-Duty Pipe Bracket               |                                     |
|        | 215350(-EZGR) |                                       |                                     |
| C      | 210250(-EZGR) | Heavy-Duty Pipe Bracket with Insert   |                                     |
|        | 210350(-EZGR) |                                       |                                     |
| D      | 100700        | Stiff-Arm Bracket                     |                                     |
|        | 800095-15     | I.D. post sleeve for stiff arm        |                                     |
| E      | 800099        | Stiff-Arm Heavy Duty Bracket          |                                     |
|        | S80094        |                                       |                                     |
| F      | 1051000       | Poly Pipe Stand-Off Bracket           |                                     |
| G      | 300810(-EZGR) | Adjustable Piling Bracket (NEW)       |                                     |
| H      | 100800        | Piling Bracket (for hoops below)      |                                     |
|        | 100804        | Hoop for Piling Bracket               |                                     |
|        | 100806        | Hoop for Piling Bracket               |                                     |
|        | 100808        | Hoop for Piling Bracket               |                                     |
|        | 100812        | Hoop for Piling Bracket               |                                     |
|        | 100816        | Hoop for Piling Bracket               |                                     |
|        | 100820        | Hoop for Piling Bracket               |                                     |
|        | 100824        | Hoop for Piling Bracket               |                                     |
|        | 100740        | Deadweight Bracket Kit                |                                     |
|        | I             | 100740SS                              | Deadweight Bracket Kit Stainless    |
|        |               | 215350                                | Bracket & Insert for 3.5" O.D. pipe |
|        | J             | 100725P                               | Deadweight insert for #210350 assem |
| 100730 |               | Deadweight winch insert               |                                     |
| K      | 210350        | Heavy Duty Dock Bracket for winch ins |                                     |
|        | 100750        | Adapter Hinge                         |                                     |
|        | 100750SS      | Adapter Hinge Stainless               |                                     |
|        | 100751        | EZ Port Adapter Hinge                 |                                     |

connectors to bolt it directly to the section you choose. It's that easy.



### STORAGE BOX

Permanently mounted and constructed of weather-resistant materials, the EZ Dock Storage Box is a great place to store life jackets, towels, and other essential supplies.



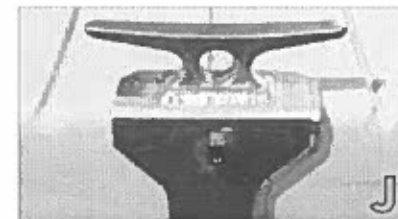
### CORNER GUSSET

Polyethylene corner gusset adds deck surface and additional stability to dock fingers when needed. 33.5" (85cm) wide, 6" (15cm) high.



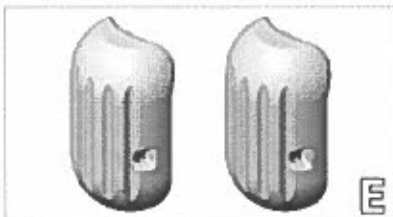
### TIE-DOWN CLEAT

Tie-down cleat (8") and other accessories attach to heavy-duty stainless-steel T-nuts molded in pairs around dock section perimeters.



### TIE-DOWN CLEAT

Tie-down cleat (10") and other accessories attach to heavy-duty stainless-steel T-nuts molded in pairs around dock section perimeters.



### DOCK BUMPER

This dock bumper is designed to protect the boat gunwales and rub-rails. Dock bumper will attach to dock using embedded T-nuts.



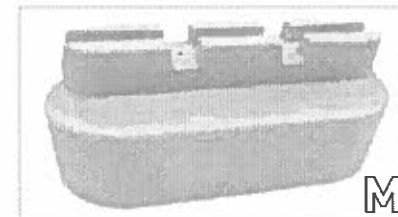
### POLY BENCH WITH ARM-RESTS

Redesigned brackets with 2" round, .25" aluminum tubing. Installs along any open 3-pocket span on an EZ Dock product.



### DOCK SLIDE

Utilizes rugged polyvinyl-coated steps, and a one-piece polyethylene bedway for a smooth ride. Install with almost any EZ Dock\* where water depth is more than 5'. (Requires use of (2) 80" dock sections.)



### SUPPLEMENTAL FLOTATION POD

This float pod is designed to add 200lbs (91 kg) of flotation and is sized to fit under most dock pylon shapes.

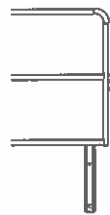
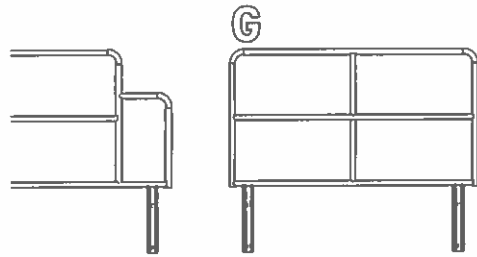
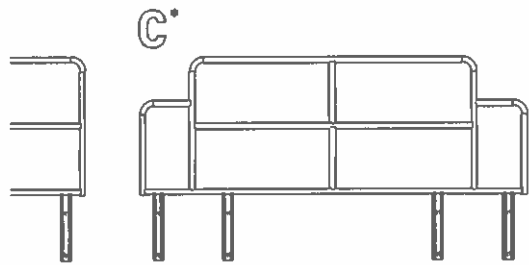


### HARDWARE CONNECTORS (M/F)

For attaching various accessories. .625" SS bolts and nuts.

|   | Part #        | Model                        | Color |
|---|---------------|------------------------------|-------|
| A | 300760        | Corner Storage Box w/Gusset  | Beige |
|   | 300760-EZGR   |                              | Grey  |
| B | 300750        | Storage Box                  | Beige |
|   | 300750-EZGR   |                              | Grey  |
| C | 300501        | Corner Gusset                | Beige |
|   | 300501-EZGR   |                              | Grey  |
| D | 300260        | Swim Ladder                  | Beige |
|   | 300260-EZGR   |                              | Grey  |
| E | 300180        | Dock Bumper                  | Beige |
|   | 300180-EZGR   |                              | Grey  |
| F | 300970AL      | Poly Bench with Arm-rests    | Beige |
|   | 300970AL-EZGR |                              | Grey  |
| G | 300965AL      | Poly Bench without Arm-rests | Beige |

|   | Part #      | Model     |
|---|-------------|-----------|
| I | 300100      | 8" Tie-d  |
| J | 300110      | 10" Tie-  |
|   | 302060      |           |
| K | 302060-EZGR | 20' x 20" |
|   | 302020      |           |
| L | 302030      | 20" Insid |
|   | 302030-EZGR |           |
| M | 302040      | 20" Outs  |
|   | 302040-EZGR |           |
|   | 300600      |           |
|   | 300600FG    |           |
|   | 208110      |           |
|   | 208110-EZGR | Supple    |



- FRG - Forest Green
- DBW - Brown
- BLU - Blue
- BEI - Beige
- AL - Aluminum, standard



and solar models (optional). Each boat lift is available with manual control (standard) or electric control (optional). The Aegis boat lift tank system is precision-molded with linear low-density polyethylene (LLDPE) to withstand harsh weather conditions, and low water damage. The lift keeps the boat out of the water, protecting the hull of your boat. The frame is constructed from hot-dipped, galvanized steel and allows you to have easy access to your watercraft to eliminate difficult maintenance products and traditional dock systems. Through the use of our air assist pumps, the lift can support up to 7,000 lbs. in weight and 28 feet in length. The Aegis 7 Boat Lift features fully adjustable legs with the ability to customize as needed for a variety of hull configurations. The lift also features high strength, ultra-high molecular weight (UHMW), polyethylene bearing surfaces.

| Part #   | Model                         |
|----------|-------------------------------|
| BL7000   | Aegis 7 Boat Lift - VHULL     |
| BL7000PT | Aegis 7 Boat Lift - PONTON    |
| BL7000TT | Aegis 7 Boat Lift - TRITON    |
| BL7000WB | Aegis 7 Boat Lift - WAKE BOAT |

**Dimensions** 10'-12' Wide x 13' 8" Long

**Lift Capacity** Up to 7000 lbs.

**Weight** ~1000 lbs

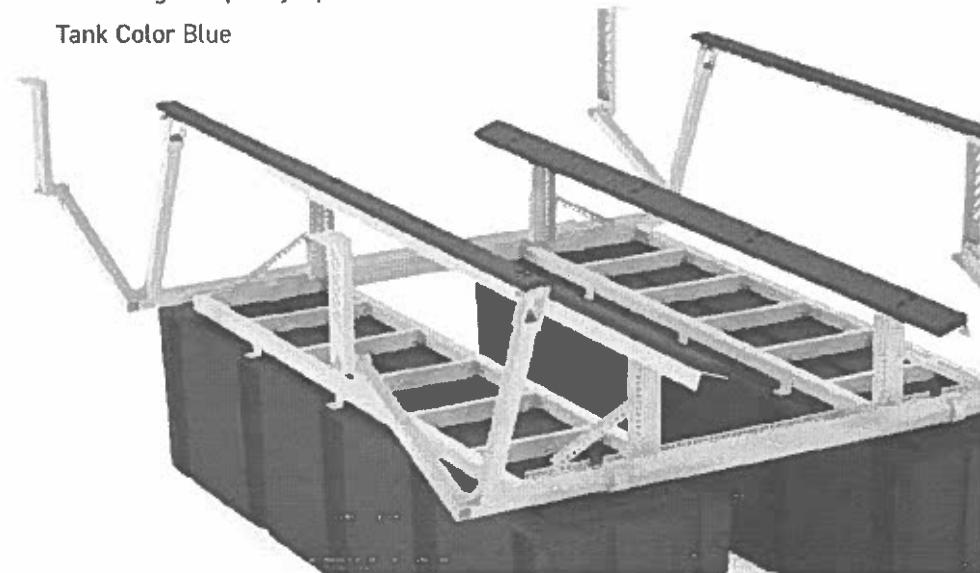
**# of Tanks** 2

**Slip Width** 10'-12'

**Minimum Water Depth** 5'

**Boat Length Capacity** Up to 28'

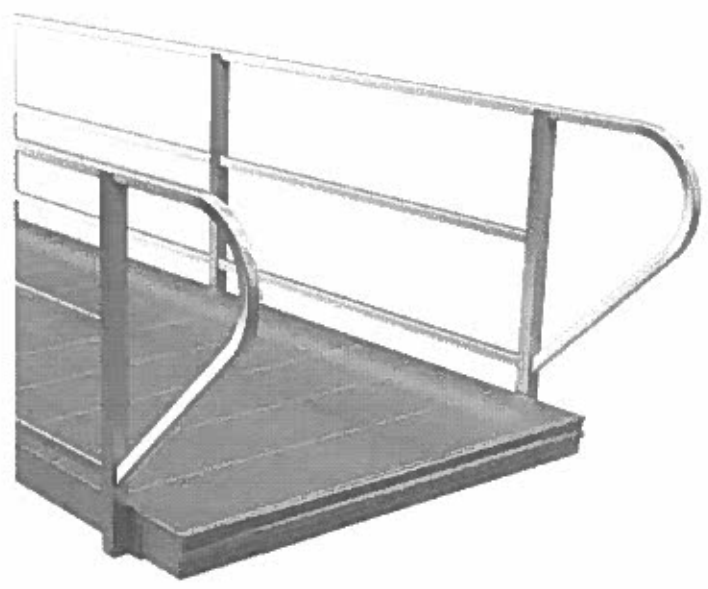
**Tank Color** Blue



| Part #   | Model     | Color             | Size            |
|----------|-----------|-------------------|-----------------|
| 100910AL | Style 910 | Aluminum          | 10' (3m) Width  |
| 105910   |           | Alum. Powder Coat |                 |
| 100911AL | Style 911 | Aluminum          | 5' (1.5m) Width |
| 105911   |           | Alum. Powder Coat |                 |
| 100912AL | Style 912 | Aluminum          | 10' (3m) Width  |
| 105912   |           | Alum. Powder Coat |                 |
| 100915AL | Style 915 | Aluminum          | 5' (1.5m) Width |
| 105915   |           | Alum. Powder Coat |                 |
| 100916AL | Style 916 | Aluminum          | 5' (1.5m) Width |
| 105916   |           | Alum. Powder Coat |                 |
| 100917AL | Style 917 | Aluminum          | 80" (2m) Width  |
| 105917   |           | Alum. Powder Coat |                 |
| 100918AL | Style 918 | Aluminum          | 80" (2m) Width  |
| 105919   |           | Alum. Powder Coat |                 |
| 100919AL | Style 919 | Aluminum          | 40" (1m) Width  |
| 105919   |           | Alum. Powder Coat |                 |
| 100920AL | Style 920 | Aluminum          | 40" (1m) Width  |
| 105920   |           | Alum. Powder Coat |                 |

ing is required to keep them looking great for years to come. Constructed in  
ates Organizations for Boating Access (SOBA), standard EZ Dock aluminum  
gways offer continuous handrails extending 12 inches past the walking surface on  
es. Aluminum gangways support 90 pounds per linear foot and a concentrated load  
his latest version of the aluminum gangways is more rigid and yet adapts to all  
achable handrails, making the shipping, handling, and assembly significantly less  
d is specifically made for marine applications. It has a mill-finish and knurl pattern  
in 3' and 5' widths, with length options from 8' to 32'. The gangways are compatible  
s, and transition plates.

maximum stability and support as you walk to your dock or launch  
, with welded aluminum walkway structure  
ments designed to make it easier to link the shore, gangway, and dock together



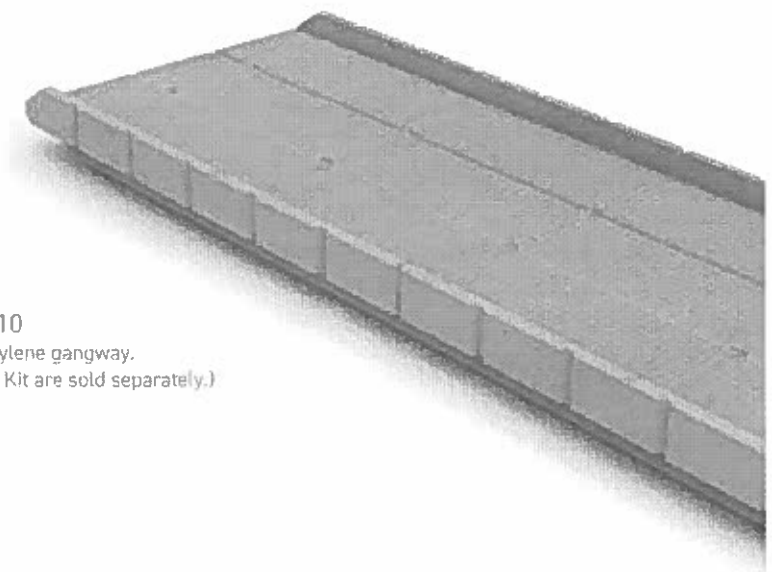
**Minimum Decking, Detachable Aluminum Railing and Hardware**

| Description                   | Length | Width (Inside) | Width (Outside) | Weight |
|-------------------------------|--------|----------------|-----------------|--------|
| w/hardware, railings, AL deck | 8'     | 36"            | 41"             | 202    |
| w/hardware, railings, AL deck | 12'    | 36"            | 41"             | 281    |
| w/hardware, railings, AL deck | 16'    | 36"            | 41"             | 372    |
| w/hardware, railings, AL deck | 20'    | 36"            | 41"             | 449    |
| w/hardware, railings, AL deck | 24'    | 36"            | 41"             | 524    |
| w/hardware, railings, AL deck | 28'    | 36"            | 41"             | 618    |
| w/hardware, railings, AL deck | 32'    | 36"            | 41"             | 688    |

**Minimum Decking, Detachable Aluminum Railing and Hardware**

|                               |     |     |     |     |
|-------------------------------|-----|-----|-----|-----|
| w/hardware, railings, AL deck | 8'  | 60" | 65" | 262 |
| w/hardware, railings, AL deck | 12' | 60" | 65" | 365 |
| w/hardware, railings, AL deck | 16' | 60" | 65" | 480 |

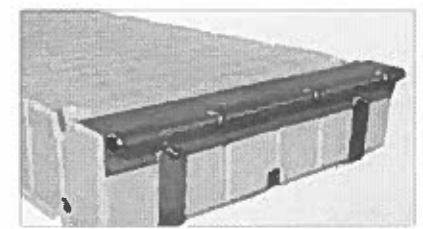
Molded Plastic Gangway  
US Pat. 6912766



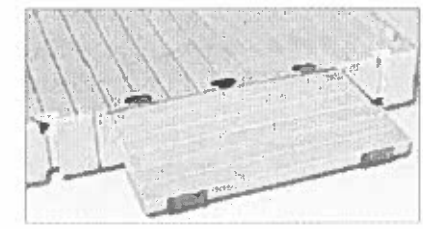
**Gangway 404010**  
10' section polyethylene gangway.  
(Railing and Roller Kit are sold separately.)

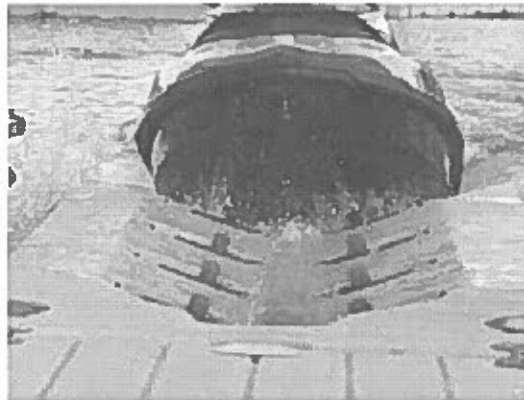
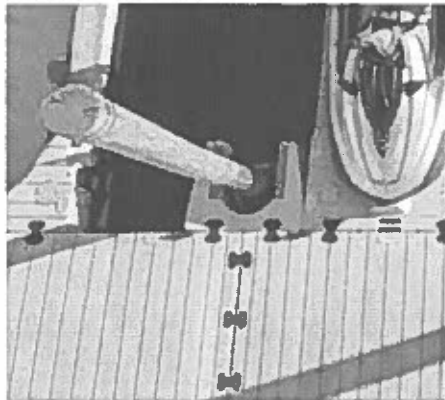
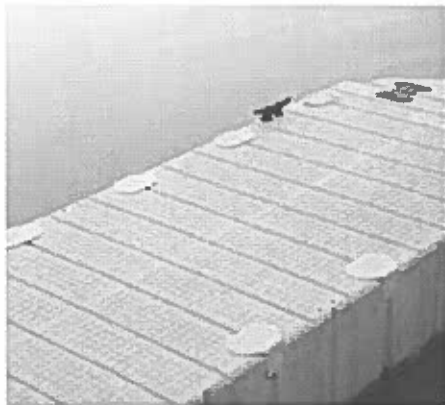


**GANGWAY ROLLER KIT**  
300300, 300400, 300450  
Gangway Roller Kit allows end of gangway to adjust to changing water levels. PVC and galvanized steel roller available for 3' and 5' widths.

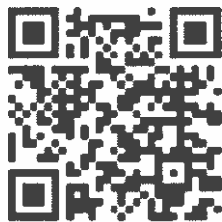


**HINGE-TO-FLOAT**  
G200360, G200560  
400410, 400460, 400480  
Hinged bracket with hardware attaches gangway to dock.





Proudly American made for 30 years.



The EZ Dock global network of highly trained and knowledgeable dealers and distributors is ready to help. Our experienced team is standing by to help you choose a system that will maximize your space and suit your specific application.

Visit our website at [ez-dock.com](http://ez-dock.com) to create your perfect dock or to find your local EZ Dock dealer.

|                      |                    |
|----------------------|--------------------|
| <b>US/Canada</b>     | 1-800-654-8168     |
| <b>Europe</b>        | +46 (0) 380 47 300 |
| <b>International</b> | +1-417-235-2223    |

EZ Dock product is produced in our Monett, MO facility which is certified by Intertek for ISO 9001:2015 quality management system and ISO 14001: 2015 environmental management system. EZ Dock may introduce new colors, products, accessories, and options throughout the year. Specifications and products listed are subject to change without notice. Some products may be shown with additional or optional equipment not available through EZ Dock. Specifications may vary for international shipments. Please check with your local dealer for more information. EZ Dock is a product of the U.S.A.

EZ Dock, Inc | 878 HWY 60, Monett, MO 65708 | 417-235-2223 | 800-654-8168  
© 2022 EZ Dock, Inc. All rights reserved.





# Estimate

816-260-5113

justin@ezdockofthegreatplains.com

515 Airport Road Bismarck, ND 58504

| Date     | Estimate # |
|----------|------------|
| 2/7/2023 | 4399       |

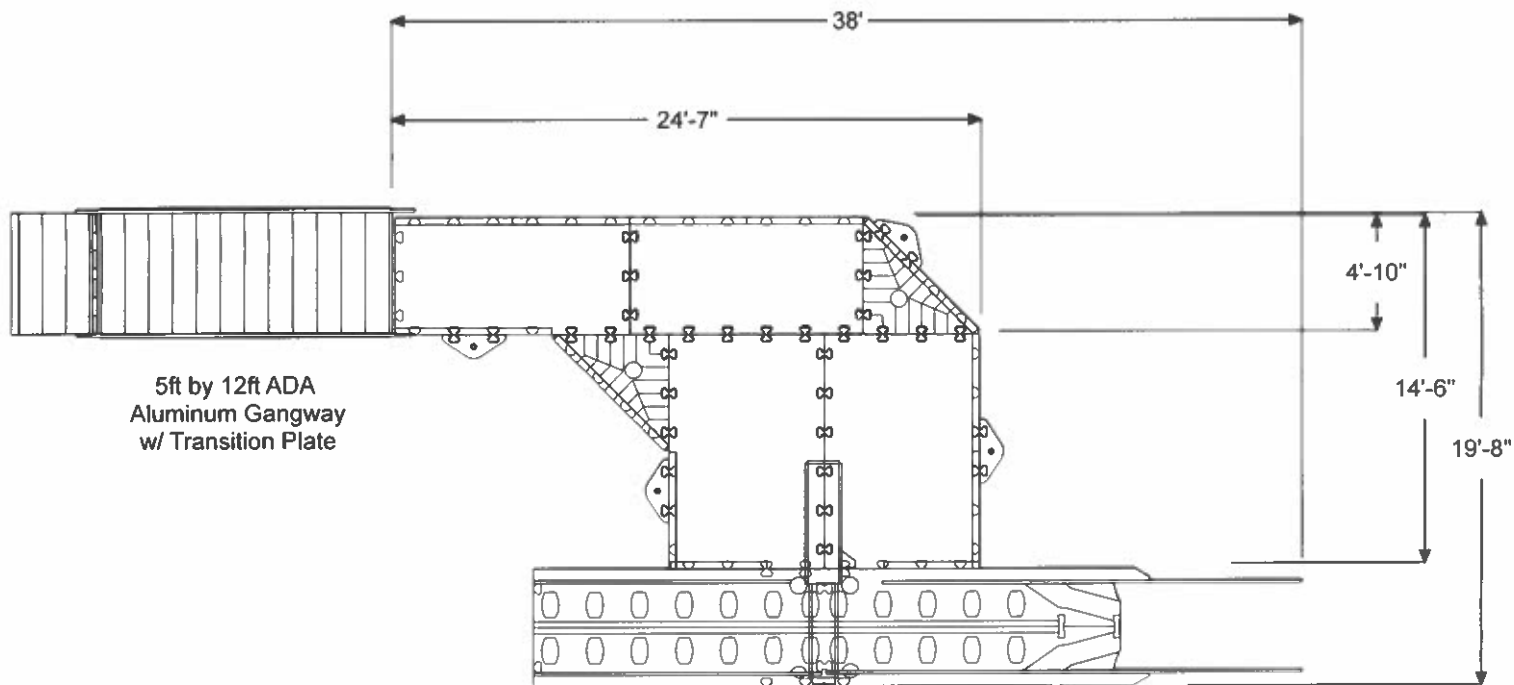
| Name / Address                                                      |              |
|---------------------------------------------------------------------|--------------|
| Green Lake County Parks<br>Attn: Scott Weir<br>Green Lake, WI 54941 |              |
| Dock Location                                                       |              |
| Customer Phone                                                      | 920-295-4355 |

| Rep | P.O. No. |
|-----|----------|
| JL  |          |

| Item        | Description                                                  | Qty | Rate         | Total              |
|-------------|--------------------------------------------------------------|-----|--------------|--------------------|
| 208010      | 80" X 10' DOCK SECTION                                       | 2   | 2,779.00     | 5,558.00T          |
| 300503      | TRI-DOCK SECTION                                             | 2   | 1,005.00     | 2,010.00T          |
| 206010      | 60" X 10' DOCK SECTION                                       | 2   | 2,119.00     | 4,238.00T          |
| 500960R-ASY | KIT, EZ LAUNCH "One-Way" RIGHT w/PORTS                       | 1   | 10,001.00    | 10,001.00T         |
| 100757SS    | EZ LAUNCH ADJUSTABLE ADAPTER KIT DOCK TO EZ LAUNCH SS (1 PR) | 1   | 713.00       | 713.00T            |
| 5008900     | EZ LAUNCH ACCESSIBLE TRANSFER W/ SUPPORT GRAB RAIL & SIGN    | 1   | 6,205.00     | 6,205.00T          |
| 215250      | PIPE BRACKET KIT HEAVY DUTY 2.5"                             | 4   | 374.00       | 1,496.00T          |
| 116025      | 2-3/8" OD - 10 GAUGE X 16' L GALVANIZED PIPE                 | 4   | 200.00       | 800.00T            |
| 100255      | AUGER KIT FOR 2-3/8" OD PIPE AL                              | 4   | 43.00        | 172.00T            |
| D1RC2BK     | 2" Round Pipe Cap With Flat Top - Black                      | 4   | 8.00         | 32.00T             |
| 301100      | COUPLER SET W/ COMPOSITE ROD                                 | 26  | 72.00        | 1,872.00T          |
| 35116       | DOCK CURBING PLASTIC 2-1/2" x 3-1/2" X 116" (no bolts)       | 8   | 260.00       | 2,080.00T          |
| 80530SS     | 3' FLATHEAD SCREWS FOR CURBING                               | 48  | 6.00         | 288.00T            |
| G200460     | GANGWAY HINGE KIT, AL GANGWAY TO 60" DOCK                    | 1   | 550.00       | 550.00T            |
| ADA512      | ADA GANGWAY AL 5'x12' W/ HANDRAILS, BEIGE THRUFLOW DECK      | 1   | 5,641.00     | 5,641.00T          |
| G200550     | GANGWAY TRANS. PLATE, 5'AL, W/ DIAMOND PLATE                 | 1   | 1,499.00     | 1,499.00T          |
| 300300      | GANGWAY ROLLER KIT FOR PVC PIPE                              | 1   | 254.00       | 254.00T            |
| 105042      | PIPE ROLLER 3" SCH80 PVC X 64" for 5ft AL GANGWAY            | 1   | 110.00       | 110.00T            |
|             | Pre-Subtotal                                                 |     |              | 43,519.00          |
| Freight     | Freight / Delivery to Green Lake, WI                         |     | 2,724.00     | 2,724.00T          |
| Dock Labor  | Dock Installation (Optional)                                 | 0   | 5,900.00     | 0.00               |
|             | Sales Tax                                                    |     | 0.00%        | 0.00               |
|             |                                                              |     | <b>Total</b> | <b>\$46,243.00</b> |

Dock Live Load of 62.5 lbs/sqft  
Low Profile Dock Live Load 30 lbs/sqft

MADE IN  
USA



**Project Name:**

Green Lake County Park  
Green Lake, WI

**Distributor Name:**

Justin Lance  
EZ DOCK of the GREAT PLAINS  
816-260-5113

Drawn by: Justin Lance

Date: 2/7/2023

DWG Name: ABC\_44964479379

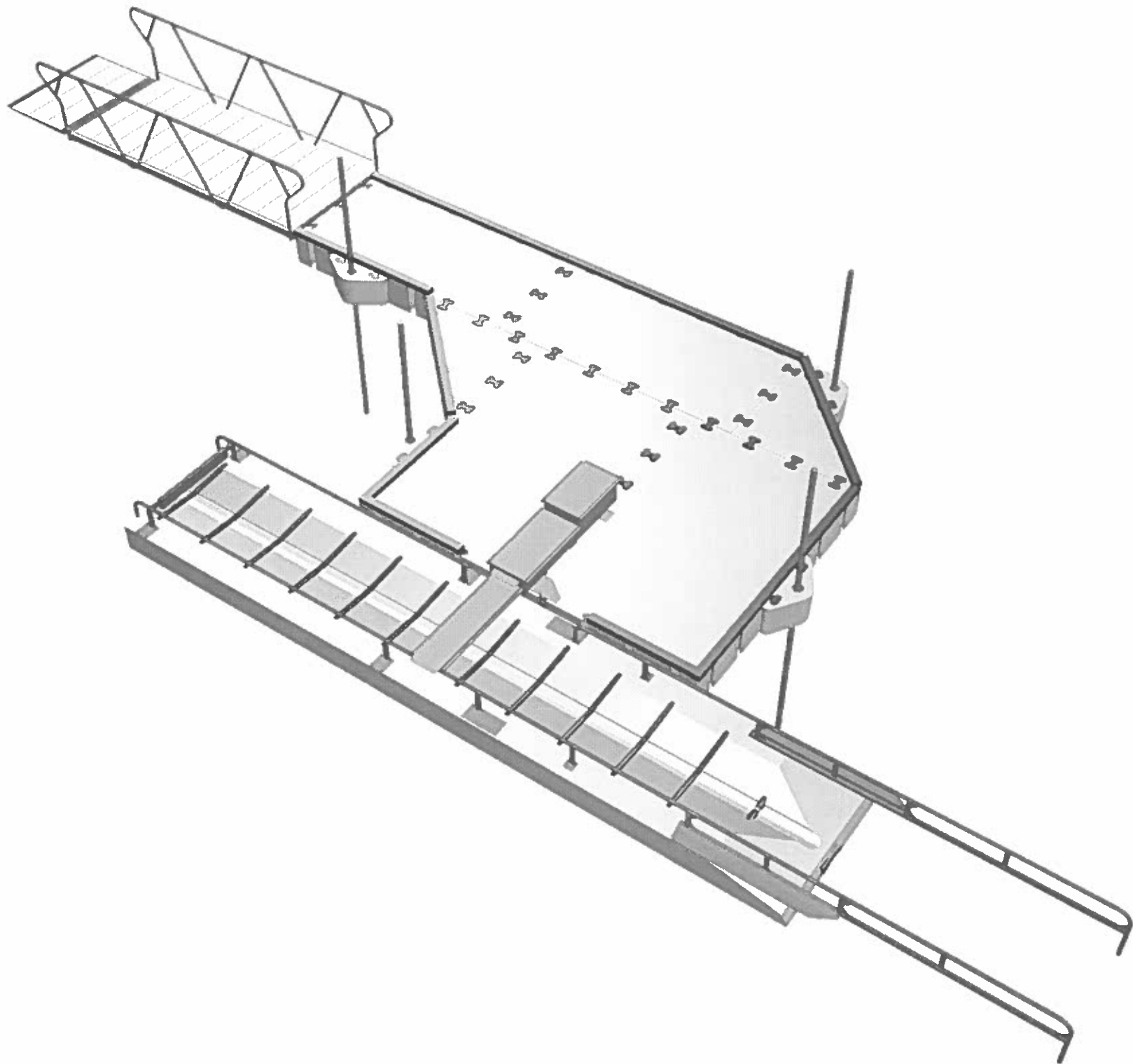
EZ Dock, Inc

878 East I Highway 60  
Monett, Missouri 65708  
Phone: 1 (800) 654-8168  
Fax: (417) 235-2232

**General Notes:**

1. This drawing does not reflect anchoring. Once sufficient information & completed Proposal Request Form concerning water and bottom conditions is received, anchoring may be detailed.
2. Note: It is the dock owner/operator's responsibility to ascertain and comply with all applicable Federal, State, and local laws, ordinances and regulations, as well as all inspection, permitting and licensing requirements pertaining to the installation, application and use of EZ Dock products on the owner/operator's premises. EZ Dock, Inc. assumes no duty or responsibility with respect to the legality or compliancy of the owner/operator's chosen installation, application or use of EZ Dock products.
3. Reference EZ Dock Owner Manual for additional details.

NOTICE! Read EZ Dock Limited Warranty carefully. Among other things, EZ Dock does not warrant damages, failures or defects caused by unauthorized modification of EZ Dock Product, and/or unauthorized attachment to/of EZ Dock Product



## Weir, Scott

---

**From:** Reed Sorensen <reed.sorensen@huffcutt.com>  
**Sent:** Wednesday, January 18, 2023 1:22 PM  
**To:** Weir, Scott  
**Subject:** Teal Vault Toilet Submittal  
**Attachments:** 8160 - GREEN LAKE COUNTY-TEAL SUBMITTAL 1-18-23.pdf

[CAUTION: EXTERNAL SENDER This email originated from outside Green Lake County. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

Scott,

I heard from Jon, that you are going to be getting another teal vault toilet. We greatly appreciate the continued service from your organization. Attached is the submittal for your building. Everything should be the same as the one you received last year. If you could just look through the submittal and make sure everything is good to go, we can get your building scheduled for production.

If you could try and get this back to me next week sometime, I would appreciate it.

Also, if you could provide me with the site address that would be great as well.

Thanks

Reed Sorensen – Location Manager



Direct: 715-438-6245  
Office: 715-723-7446  
4154 123<sup>rd</sup> Street  
Chippewa Falls, WI 54729  
[www.huffcutt.com](http://www.huffcutt.com)



SEE HOW WE ARE INNOVATING PRECAST



## Huffcutt Submittal Review

**Project Name: 8160 - GREEN LAKE COUNTY (TEAL)**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Date:</p><br><br><p>Reviewed By:</p> | <p>Please review the submittal that was sent to you by a Huffcutt Representative and note any changes on the attached documents that you feel are necessary. Once review is completed, mark the letter <b>X</b> next to the category that applies for this submittal.</p> <ul style="list-style-type: none"><li>• <b>Approved:</b> Everything in the submittal is correct and ready for production.</li><li>• <b>Approved as noted:</b> We would make the changes noted and we would not resend the submittal back for review. The submittal is considered approved and ready for production.</li><li>• <b>Revise and resubmit:</b> Make the changes to the submittal and resend it back to you for review.</li></ul> |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### COMMENTS

|                     |  |  |
|---------------------|--|--|
| Approved            |  |  |
| Approved as Noted   |  |  |
| Revise and Resubmit |  |  |



# 8160 TEAL PIT TOILET

| FINISHES SCHEDULE            |                               |                 |                    |          |
|------------------------------|-------------------------------|-----------------|--------------------|----------|
| CALL OUT                     | FORMLINER                     | TYPE            | COLOR              | COMMENTS |
| INTERIOR                     |                               | SATIN ACRYLIC   | CUSTOM NP1         |          |
| LOWER EXTERIOR               | ASHLAR STONE                  | SATIN ACRYLIC   | SAND DOLLAR SW6099 |          |
| LOWER EXTERIOR COLUMN CORNER | SANDBLAST-MEDIUM              | SATIN ACRYLIC   | JAVA SW6090        |          |
| UPPER EXTERIOR               | 6" PINE WOOD GRAIN (VERTICAL) | SATIN ACRYLIC   | JAVA SW6090        |          |
| UPPER EXTERIOR COLUMN CORNER | WOOD GRAIN                    | SATIN ACRYLIC   | JAVA SW6090        |          |
| ROOF                         | SPLIT CEDAR SHINGLE           | SATIN ACRYLIC   | IRON ORE SW7069    |          |
| FLOOR                        |                               | AQUANIL PLUS 40 |                    |          |

| DOOR SCHEDULE |       |       |        |       |       |       |       |        |                 |              |
|---------------|-------|-------|--------|-------|-------|-------|-------|--------|-----------------|--------------|
| CALL OUT      | SWING | SIZE  |        | DOOR  |       | FRAME |       |        | COLOR           | HRDWR. GROUP |
|               |       | WIDTH | HEIGHT | MAT.  | LOUV. | MAT.  | CORE  | THICK. |                 |              |
| 1             | RHR   | 3'-0" | 6'-8"  | STEEL | YES   | STEEL | LEVER | 3 1/4" | IRON ORE SW7069 | GROUP 1      |

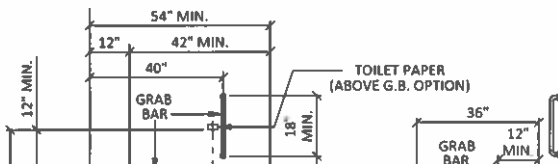
## HARDWARE GROUP 1

SCHLAGE ND MECHANICAL LEVER CORRIDOR LOCK (ND73PD) RHODES (RHO) SATIN CHROME (US26D)  
 REESE ENTERPRISES SADDLE THRESHOLD (S204A) ALUMINUM  
 REESE ENTERPRISES NYLON BRUSH DOOR SWEEP (962C) ALUMINUM  
 REESE ENTERPRISES RAIN DRIP (R201A) ALUMINUM  
 IVES FULL MORTISE HINGES (5BB1), NON-REMOVABLE PINS (NRP), STAINLESS STEEL (A5112)  
 FALCON SC70A WITH DEAD STOP

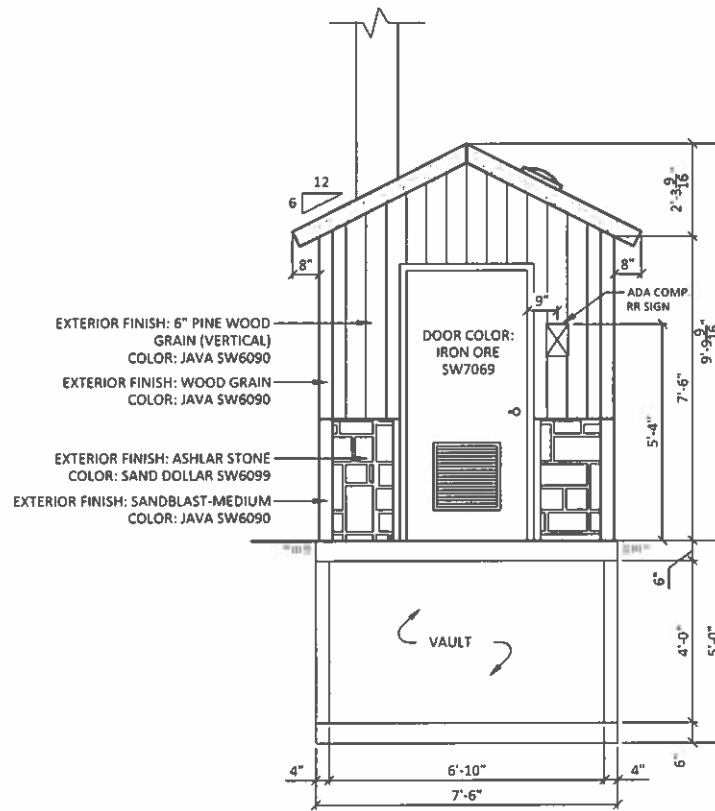
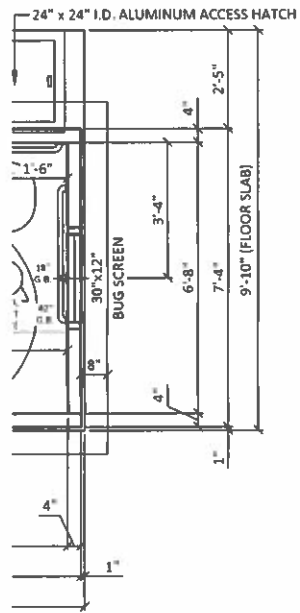
| WINDOW SCH |           |        |       |            |               |
|------------|-----------|--------|-------|------------|---------------|
| CALL OUT   | SIZE      |        | COMP. | EXT. COLOR | GLASS O BUG S |
|            | WIDTH     | HEIGHT |       |            |               |
| 1          | 30"       | 12"    | PARCO | BLACK      | VINYL BU      |
| 2          | 10 1/2" R |        | VELUX | N/A        | N/            |

| VENT SCHED |       |        |            |                   |
|------------|-------|--------|------------|-------------------|
| CALL OUT   | SIZE  |        | MATERIAL   | SCREEN OR LOUVERS |
|            | WIDTH | HEIGHT |            |                   |
| 1          | 12"   | 15'-0" | POLY.      | N/A               |
| 2          | 18"   | 18"    | 18 GA. CRS | INVERTED SPLIT    |

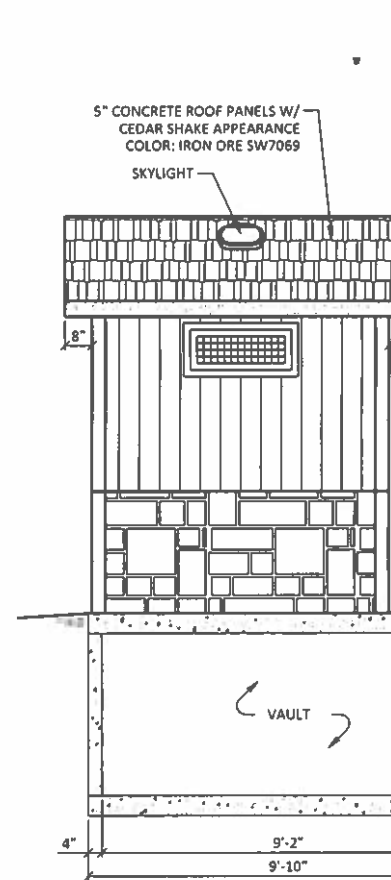
| INTERIOR HARDWARE         |                      |      |
|---------------------------|----------------------|------|
| DESCRIPTION               | COMPANY              |      |
| URINAL                    | NORTHWOODS STAINLESS |      |
| TOILET SEAT               | BEMIS                |      |
| POLYETHYLENE TOILET RISER | ROMTEC               | 17"H |
| GRAB BAR                  | BRADLEY              |      |
| TOILET PAPER HOLDER       | SUPPLIED AND         |      |



# 3767 TEAL PIT TOILET

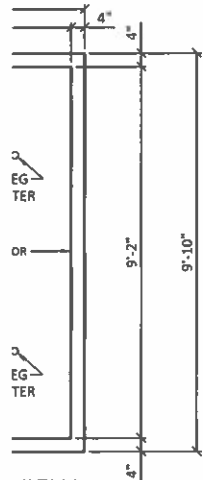


2 FRONT ELEVATION  
SCALE: 1/4" = 1'-0"

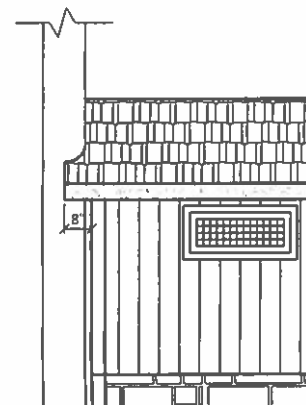
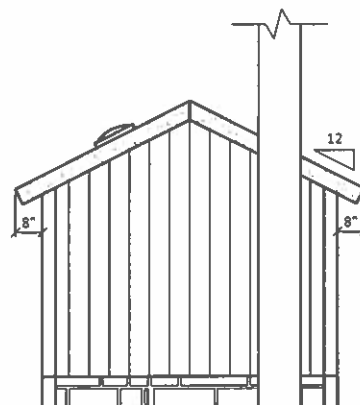


3 RIGHT ELEVATION  
SCALE: 3/4" = 1'-0"

AN



VIEW





## Spec Formliners, Inc.

Impressive on Concrete

Pattern Number: **1502**

## Ashlar Stone

Rock Sizes - 2-1/2" to 9"  
1-1/4" depth, 3/8" to 1-1/4" mortar joint

### GENERAL INFORMATION

**ATTACHMENT TO FORMWORK** – Liners are attached to the form using TEK screws through the face of the liner spaced 12" C-C. Optional form mounting T-nuts embedded through the plywood backing is available for Elastospec panels.

**FORM RELEASE** – Apply with low flow, wide angle, flat spray nozzle and wipe with a cloth to insure a complete even coat to the entire form liner surface. Do not over apply form release agent. Protect treated form liners from precipitation, dust, and debris. Do not apply to reinforcing steel. For best results, use SPEC Release, aVOC compliant form release approved for all form liner materials.

**TECHNICAL SUPPORT** – Contact Spec Formliners, Inc. 888 429-9550



**Ends and sides are texture matched.**

**Panels can rotate, allowing random pattern layout.**

### ThermoSpec™ SINGLE OR MULTI-USE PLASTIC

| Property                                     | HIPS      | ABS       |
|----------------------------------------------|-----------|-----------|
| Tensile D638                                 | 3700      | 5300      |
| IFlexural D7905                              | -         | 9300      |
| Hardness D786                                | -         | 105       |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |           |           |
| 0.070 MIL                                    | 0.110 MIL | 0.150 MIL |
| 0.393                                        | 0.621     | 0.843     |

### ElastoSpec Lite™ Semi-Elastomeric MULTI-USE MATERIAL

| Property                                     | ASTM  | Rating   |
|----------------------------------------------|-------|----------|
| Shore D                                      | D2240 | 65       |
| Tensile                                      | D412  | 3000 psi |
| Elongation                                   | D412  | 300%     |
| Tear Strength                                | D2370 | 23 MPa   |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |       |          |
| Varies by Pattern                            |       |          |

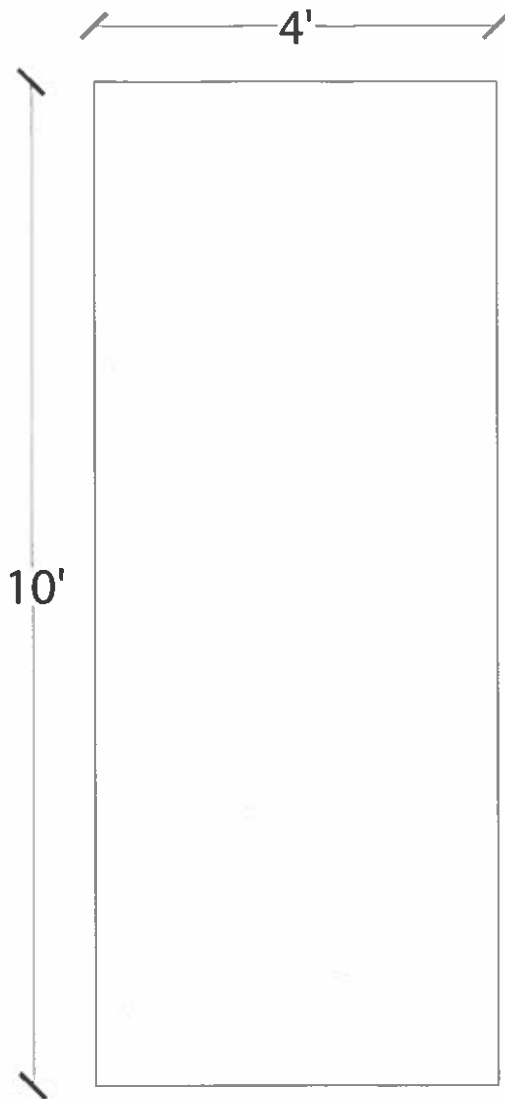
### ElastoSpec™ 100% Solid Urethane BONDED TO 3/4" PLYWOOD

| Property                                     | ASTM  | Rating  |
|----------------------------------------------|-------|---------|
| Shore A                                      | D2240 | 50-55   |
| Tensile                                      | D638  | 800 psi |
| Elongation                                   | D638  | 600%    |
| Tear Strength                                | D624  | 200 pli |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |       |         |
| Varies by Pattern                            |       |         |

**Call for ThermoSpec™ Standard Panel Sizes on this pattern. Custom Sizes and Art Panels available**  
**ElastoSpec™ Customized Panel Sizes and Art Panels**

**Spec Formliners, Inc.** 530 East Dyer Road, Santa Ana, CA 92707  
www.specformliners.com - Phone: 714 429-9500 - FAX: 714 429-1460





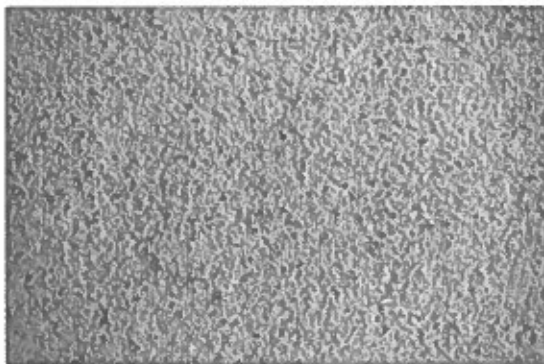
### General Information:

The Styrene and ABS form liners are an economical solution for providing architectural pattern reproductions. The Styrene plastic formliner is a perfect alternative for single use applications which costs less than other liners. The ABS plastic formliner exhibits good impact resistance and excellent overall performance. Its reuse factor is 10, subject to pattern configuration, proper handling and jobsite configurations.

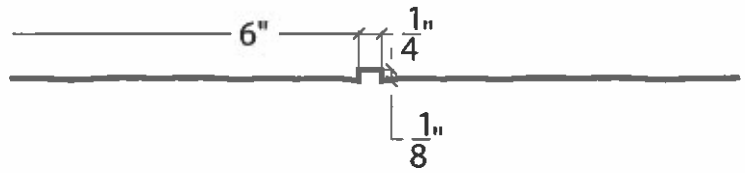
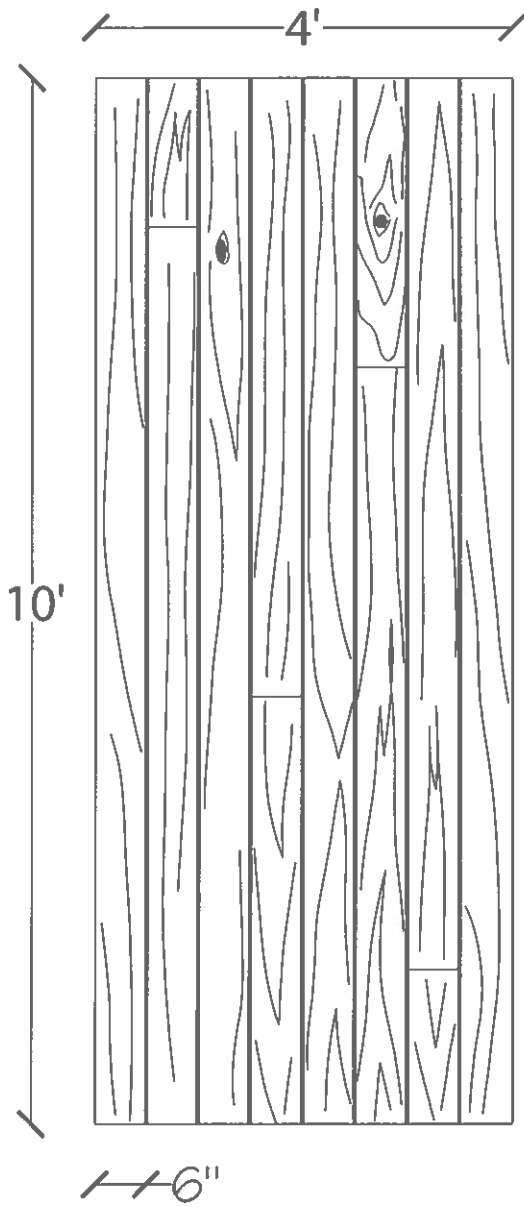
### Care and Handling:

To protect from thermal deformation, form liners should not be exposed to temperatures above 140°F (60°C). To avoid discoloration from sunlight exposure, form liners should be covered with a tarpaulin when not in use. This helps prolong the life of the material and keeps the material clean.

Form Liners are subject to thermal expansion and contraction +/- 1/8" @ 70°F. Keep away from steam, acids, and certain fuels.



| Styrene                    | ABS                        |
|----------------------------|----------------------------|
| <b>Product Code #</b>      | <b>Product Code #</b>      |
| F3170596                   | F3170513                   |
| <b>Uses</b>                | <b>Uses</b>                |
| 1                          | Up to 10                   |
| <b>Material Thickness</b>  | <b>Material Thickness</b>  |
| .070                       | .070                       |
| <b>Standard Dimensions</b> | <b>Standard Dimensions</b> |
| 4' x 10'                   | 4' x 10'                   |
| <b>Color</b>               | <b>Color</b>               |
| White                      | Gray                       |



**General Information:**

The Styrene and ABS form liners are an economical solution for providing architectural pattern reproductions. The Styrene plastic formliner is a perfect alternative for single use applications which costs less than other liners. The ABS plastic formliner exhibits good impact resistance and excellent overall performance. Its reuse factor is 10, subject to pattern configuration, proper handling and jobsite configurations.

**Care and Handling:**

To protect from thermal deformation, form liners should not be exposed to temperatures above 140°F (60°C). To avoid discoloration from sunlight exposure, form liners should be covered with a tarpaulin when not in use. This helps prolong the life of the material and keeps the material clean.

Form Liners are subject to thermal expansion and contraction +/- 1/8" @ 70°F. Keep away from steam, acids, and certain fuels.

| Styrene                    | ABS                        |
|----------------------------|----------------------------|
| <b>Product Code #</b>      | <b>Product Code #</b>      |
| F3170595                   | F3170512                   |
| <b>Uses</b>                | <b>Uses</b>                |
| 1                          | Up to 10                   |
| <b>Material Thickness</b>  | <b>Material Thickness</b>  |
| .070                       | .070                       |
| <b>Standard Dimensions</b> | <b>Standard Dimensions</b> |
| 4' x 10'                   | 4' x 10'                   |
| <b>Color</b>               | <b>Color</b>               |
| White                      | Gray                       |





**Spec Formliners, Inc.**

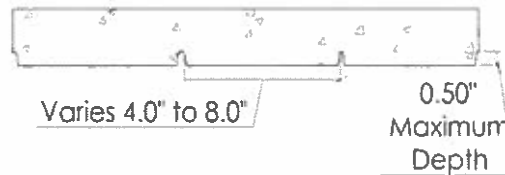
Impressive on Concrete

Pattern Number: **1231**

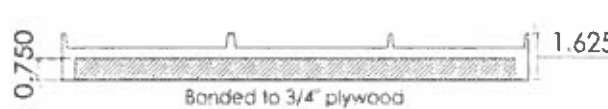
## Split Cedar Shingle

1/2" (13mm) depth

4" to 6" lap with 4" to 8" random shingles



Concrete



ElastoSpec™  
Standard size 4'x8' and 4'x10'  
Custom sizes available



ElastoSpec Lite™  
Standard size 4'x8' and 4'x10'  
Custom sizes available



ThermoSpec™  
Standard size 4'x10'  
Custom sizes: any less than 4'x10'

Visit [www.specformliners.com](http://www.specformliners.com) for application guides and technical information

### ThermoSpec™ SINGLE OR MULTI-USE PLASTIC

| Property                                     | HIPS      | ABS       |
|----------------------------------------------|-----------|-----------|
| Tensile D638                                 | 3700      | 5300      |
| IFlexural D7905                              | -         | 9300      |
| Hardness D786                                | -         | 105       |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |           |           |
| 0.070 MIL                                    | 0.110 MIL | 0.150 MIL |
| 0.393                                        | 0.621     | 0.843     |

### ElastoSpec Lite™ Semi-Elastomeric MULTI-USE MATERIAL

| Property                                     | ASTM  | Rating   |
|----------------------------------------------|-------|----------|
| Shore D                                      | D2240 | 65       |
| Tensile                                      | D412  | 3000 psi |
| Elongation                                   | D412  | 300%     |
| Tear Strength                                | D2370 | 23 MPa   |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |       |          |
| Varies by Pattern                            |       |          |

### ElastoSpec™ 100% Solid Urethane BONDED TO 3/4" PLYWOOD

| Property                                     | ASTM  | Rating  |
|----------------------------------------------|-------|---------|
| Shore A                                      | D2240 | 50-55   |
| Tensile                                      | D638  | 800 psi |
| Elongation                                   | D638  | 600%    |
| Tear Strength                                | D624  | 200 pli |
| <b>Material Weights - lbs/ft<sup>2</sup></b> |       |         |
| Varies by Pattern                            |       |         |

Call for ThermoSpec™ Standard Panel Sizes on this pattern. Custom Sizes and Art Panels available  
ElastoSpec™ Customized Panel Sizes and Art Panels

**Spec Formliners, Inc.** 530 East Dyer Road, Santa Ana, CA 92707  
www.specformliners.com - Phone: 714 429-9500 - FAX: 714 429-1460

Path: [Online Catalog](#) - [Door Accessories](#) - [Raindrip](#) - R201A

**Drawing**

Reese Catalog Number: R201A

Description: R201A - Mill Aluminum Raindrip Weatherstrip, 1-1/2" x 2-1/2"

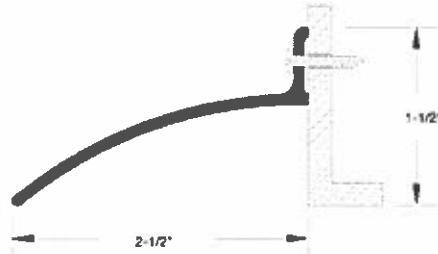
Retail Price\*: \$ 4.30 per foot

Quantity: 1

Options:

Length  
 inches

Comment (specify fractional inches or comments here)



All parts come with holes unless otherwise specified.

\* Note all items are listed at retail price.

Your actual price will vary.

Call and hear for yourself.  
**1-800-328-0953**

**FALCON**®

## SC70A Series

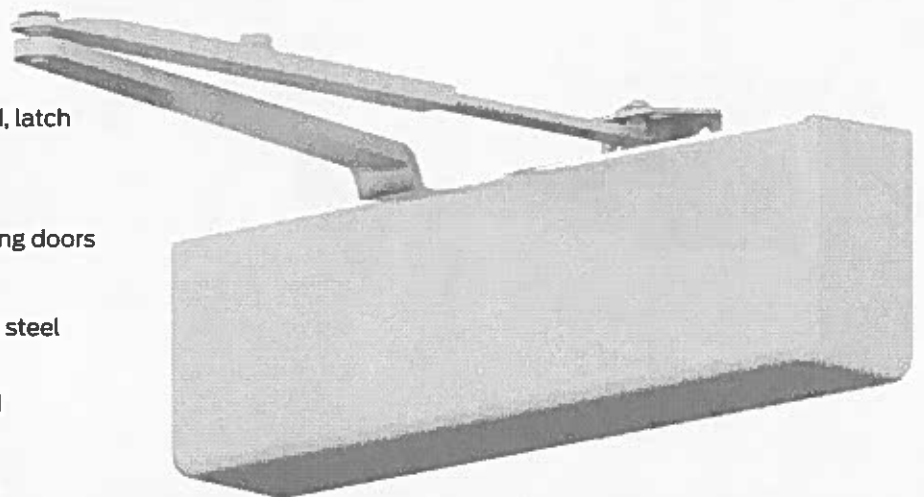
Heavy duty, Grade 1 door control

### Overview

Falcon® SC70A Series heavy duty closers are built for applications that demand reliable door control and easy maintenance. The SC70A Series closers are ANSI Grade 1, ADA compliant and deliver tough performance at an unbeatable value. Choose the SC70A for interior or exterior doors in retail shops, restaurants, apartments, small offices and a variety of other high traffic applications.

#### Features and benefits:

- Fully adjustable sizes 1-6
- Separate adjustable general speed, latch speed and backcheck
- Common industry hole pattern
- Non-handed for left or right swinging doors
- Double heat-treated pinion
- 1 ½" diameter, heat-treated forged steel piston
- Listed ANSI/BHMA A156.4, Grade 1
- Meets ANSI A117.1
- Cover is UL approved for use in fire rated assemblies
- UL listed and compliant to UL10C and UBC 7-2 (1997)
- Comes standard with universal screw pack, including self reaming and tapping screws



# The right accessories for every job

The non-handed design of the SC70A Series and its quick and easy installation make it perfect for any high traffic application where Grade 1 heavy duty performance is needed.



**Regular (RW/PA)**



**Hold open (HW/PA)**



**Heavy-duty regular (HD/PA)**



**Dead stop (DS)**



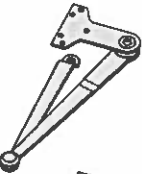
**Dead stop hold open (DS/HO)**



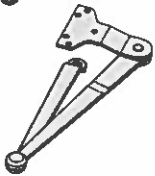
**Spring-n-Stop (SS)**



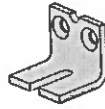
**Spring-n-Stop hold open (SS/HO)**



**Forged arm (FA)**

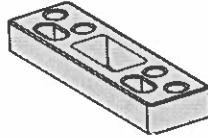


**Forged arm with hold open (FA/HO)**



**Soffit shoe support**

Provides anchorage for fifth screw used with soffit shoe where reveal is less than 3 1/16" (78mm).



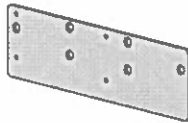
**Blade stop spacer**

Required to lower parallel arm shoe to clear 1/2" (13mm) blade stop.



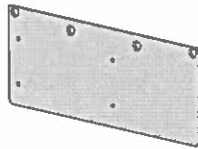
**Auxiliary shoe**

Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.



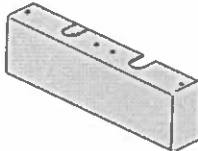
**Plate**

Required for hinge side mount where top rail is less than 3 7/8" (98mm). Required for top jamb mounting where head frame is less than 3 7/8" (98mm).



**Parallel arm plate**

Required for parallel arm mounting where top rail is less than 6" (152 mm), measured from the stop. Plate requires 1 3/4" (44mm) minimum top rail measured from stop.



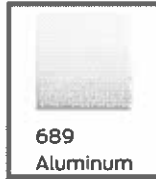
**Cover**

Standard, non-handed, full plastic cover encloses the closer body.

## Available finishes



622  
Matte black



689  
Aluminum



695  
Dark bronze



696  
Brass

### About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit [www.allegion.com](http://www.allegion.com).

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



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[www.allegion.com/us](http://www.allegion.com/us)

## DE Series Doors

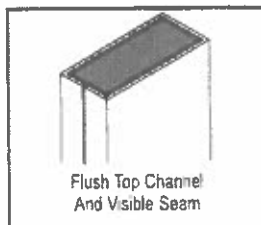
Republic's DE Series doors are available in 20, 18, 16 and 14 gage cold-rolled, (A60) galvanized and (G90) galvanized steel. Face sheets are continuously projection welded to hinge and lock channels on 5" centers. SDI Levels 1, 2, 3 and 4 - Physical performance levels A, B, C and D.

- 3/4" (19) cell honeycomb core 100% bonded to skins to provide exceptional strength, flatness and acoustical performance.
- Hinge edge is non-beveled and reinforced with a full height 10 gage steel channel projection welded at a max. of 5" on center.
- Continuous flush, 16 gage top and inverted bottom channels projection welded to both face sheets every 2-1/2" on center.
- Lock edge is non-beveled and reinforced with a continuous 14 gage steel channel, mortised and cylindrical lock reinforcements are integral 14 gage reinforcements.
- Doors are prepared for 4-1/2" standard or heavy weight, full mortise template hinges.
- Non-handed design (square lock edge).
- Size availability: minimum 1'0" (305) x 1'0" (305); maximum 5'0" (1524) x 10'0" (3048).
- Doors are thoroughly cleaned, phosphatized and primed with a coat of force-cured rust inhibiting primer.
- Doors are individually packaged and fully plastic wrapped to prevent damage.

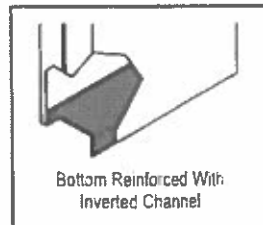


### Options

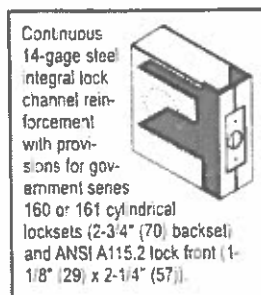
- When closer reinforcement required; 14 gage standard/12 gage optional
- A60 galvanized, G90 galvanized or textured wood-grain or leather-grain steel
- Continuously welded seamless design or filled seamless design



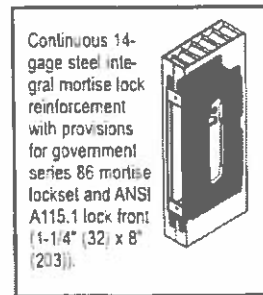
Flush Top Channel  
And Visible Seam



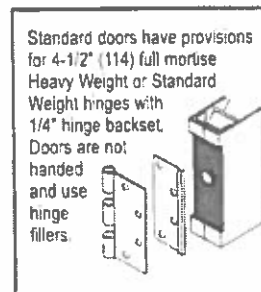
Bottom Reinforced With  
Inverted Channel



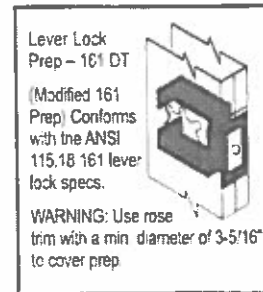
Continuous 14-gage steel integral lock channel reinforcement with provisions for government series 160 or 161 cylindrical locksets (2-3/4" (70) backset) and ANSI A115.2 lock front (1-1/8" (29) x 2-1/4" (57)).



Continuous 14-gage steel integral mortise lock reinforcement with provisions for government series 86 mortise lockset and ANSI A115.1 lock front (1-1/4" (32) x 8" (203)).



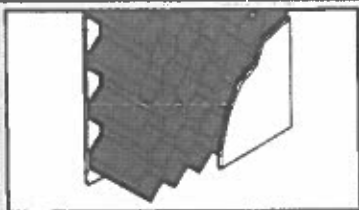
Standard doors have provisions for 4-1/2" (114) full mortise Heavy Weight or Standard Weight hinges with 1/4" hinge backset. Doors are not handed and use hinge fillers.



Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specs. WARNING: Use rose trim with a min diameter of 3-5/16" to cover prep

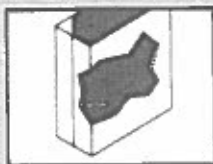
- Lock edge beveled 1/8" in 2"
- Polystyrene, mineral fiberboard and polyurethane solid cores or steel stiffened
- Finish paint (Republic standard and custom colors)

## Cores Available For DE Series Doors



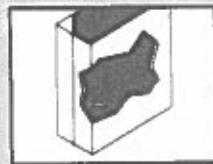
### Honeycomb (Standard)

- Efficient in 95% of all weather conditions
- STC rating of 38 standard. U Factor of .342.



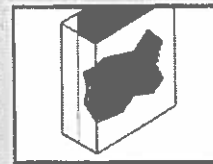
### Polystyrene

- Solid core
- Efficient in extreme weather conditions.



### Mineral Fiberboard

- Solid core
- Rated for max. of 250° temperature rise.



### Polyurethane

- Solid core
- Recommended for use in Arctic conditions.

All Republic Series DE, DL, DS & DB Doors up to 4'0" x 10'0" (minimum width 2'0") can be continuously welded and seamless.

## Universal & Drywall Frames

ME Series Universal Frames and MH Series Drywall Frames are constructed to conform to Steel Door Institute Standard ANSI A250.8-1-1998 (SDI-100).

ME/MH Series Frames are formed from 14, 16 or 18 gage cold-rolled steel, hot rolled steel or galvanized steel (14 gage max. height of 10'0"). Frames may be either knocked-down or have corners welded and ground smooth. Knockdown corners have aligning tabs and slots for secure, easy interlocking of jambs to head.

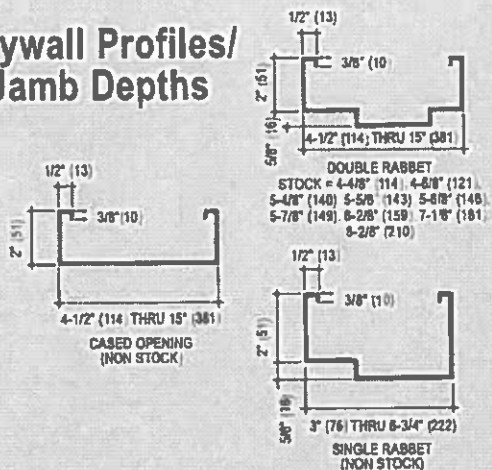
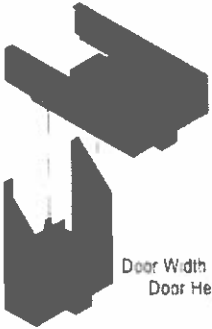
Frames are provided with 9/32" silencer preparation, (3) per strike jamb and (2) per head for double openings for field application after finish painting. Frames for 1-3/4" (44) doors shall have 9 gage steel universal hinge tap plate projection welded with provisions for 4-1/2" (114) x 4-1/2" (114) template type hinges and 14 gage steel strike reinforcement plate, extruded and formed to the equivalent of 10 gage, projection welded with provision for Universal ANSI A115.1 or ANSI A115.2 strike.

Frames for 1-3/8" (35) doors shall have 11 gage steel hinge reinforcement plates projection welded with provisions for 3-1/2" (89) x 3-1/2" (89) template type hinges and 14 gage steel strike reinforcement plate projection welded with provision for cylindrical ANSI A115.2 strike.

Optional reinforcement for surface closer made of 12 gage steel. Optional reinforcement provided for other hardware when required.

For more detailed information regarding universal and drywall frames, please request Republic Technical Data Manual. 12 gage masonry frames also available.

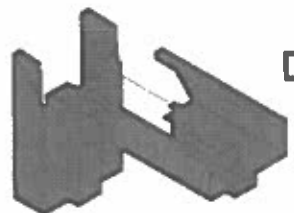
### Drywall Profiles/ Jamb Depths

**ME  
Universal Miter**

Rough Opening Required For  
Butted Universal Frame

Door Width Opening + 2 Times Face Dimension + 1 2"  
Door Height Opening + Face Dimension + 1 4"  
(10' maximum height)

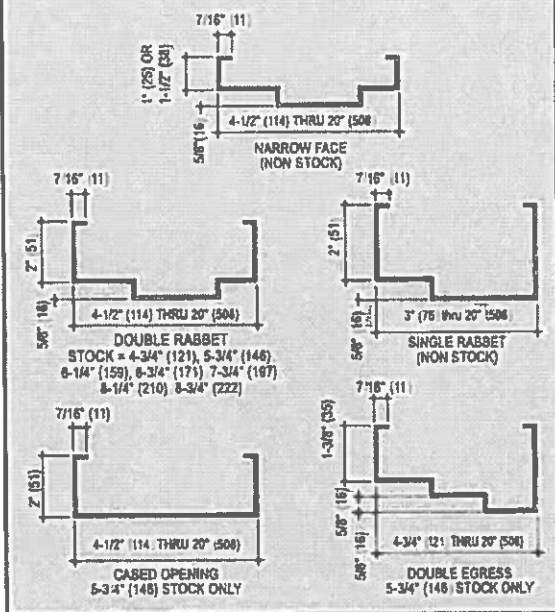


**MH  
Drywall Miter**

Rough Opening  
Required For  
Drywall Frame

Door Width Opening + 2" (51)  
Door Height Opening + 1" (25)  
(9' maximum height)  
Assuming 2" Face Dimension  
For SGL-RBTD or CASED OPG. - Door Width + 3"

### Universal Profiles/Jamb Depths

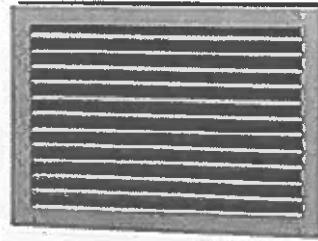


Anchor Details: Refer to Republic's Product Catalog.



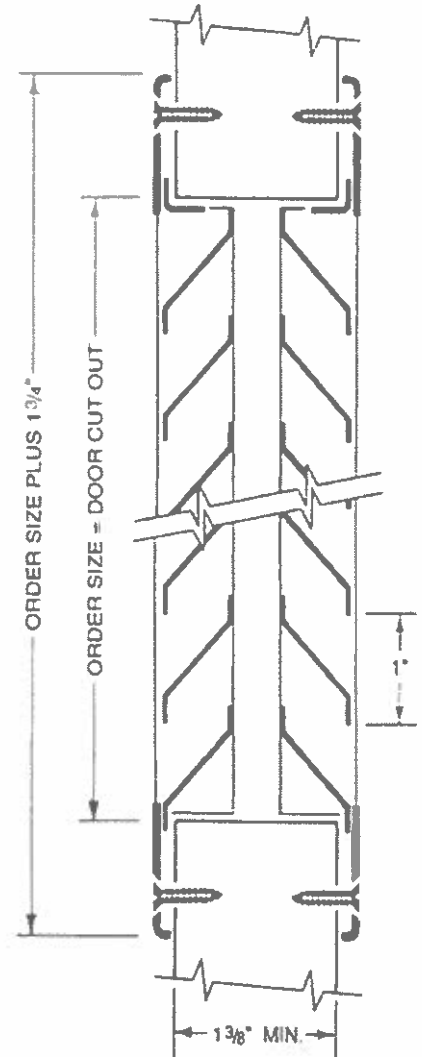


2 Rows of Inverted, Split "Y" Blades with Two-Piece Design for Wood or Metal Doors



**SPECIFICATIONS:**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material:</b>             | 18 gauge CRS frame and blades. Min size 6" x 4", Max 48" x 80".                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Construction:</b>         | <b>Louvers &amp; Frame:</b> 2 rows of inverted split "Y" blades at 1" intervals are attached by interlocking construction to the 3/4" deep welded frame. 1-1/4" trim, with mitered and welded corners and countersunk mounting holes. Non-vision Construction. Louver frame is screwed into door from 2 sides.                                                                                                                                                                                     |
| <b>Door:</b>                 | Minimum 1-3/8" thick door. Door cutout = order size.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Fasteners:</b>            | Phillips head screws #8 x 3/4".                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Powder Coat Finishes:</b> | <input type="checkbox"/> (B) Mineral Bronze <input type="checkbox"/> (G) Gray (stock colors)<br><input type="checkbox"/> (BK) Black <input type="checkbox"/> (FBK) Flat Black <input type="checkbox"/> (W) White<br><input type="checkbox"/> (SB) SC Beige <input type="checkbox"/> (SA) Satin Aluminum<br><input type="checkbox"/> (S) Sand <input type="checkbox"/> (AB) AMS Beige <input type="checkbox"/> (R) Red<br><input type="checkbox"/> (GH) Gray Hammertone <b>Color Samples Online</b> |
| <b>Free Flow Area:</b>       | 50% free area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



**OPTIONAL FEATURES AT AN ADDITIONAL COST:**

|                                  |                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Finishes &amp; Materials:</b> | <input type="checkbox"/> (S) 18 gauge stainless steel, #4 finish                                                                                                                  |
|                                  | <input type="checkbox"/> 16 gauge CRS.                                                                                                                                            |
|                                  | <input type="checkbox"/> (G) Galvanized sheet for exterior use and corrosion-resistance.                                                                                          |
|                                  | <input type="checkbox"/> (EG) Electro Galvanized for corrosion resistance & exterior use.                                                                                         |
|                                  | <input type="checkbox"/> Special order colors. Please provide color chip.                                                                                                         |
| <b>Screen:</b>                   | <input type="checkbox"/> 18x14 mesh insect screen installed with rivets or screws.                                                                                                |
|                                  | <input type="checkbox"/> aluminum <input type="checkbox"/> bronze <input type="checkbox"/> fiberglass <input type="checkbox"/> stainless<br><input type="checkbox"/> Bird Screen. |
| <b>Custom:</b>                   | Custom sizes, other door thickness, other options; Contact Customer Service.                                                                                                      |

STOCK ITEM— THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN 4 STANDARD SIZES FROM CA WAREHOUSE

Order Format:            700    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 Example: 700A1212B    Option S,G,EG    W    H    Color

|                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Distributor:</b> | <b>Width:</b> _____ <b>x Height:</b> _____    |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Architect:</b>   | <b>Quantity:</b>                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Contractor:</b>  | <b>Model:</b>                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Project:</b>     | <b>Date:</b> _____ <b>Version:</b> ALSPDS1001 |
| HDQTRS:4450 WEST 78 <sup>TH</sup> ST CIR., BLOOMINGTON, MN 55435-5416 PH: 800-554-6077 FAX: 952-835-2218 EMAIL: SALES@AIRLOUVERS.COM<br>VISIT <a href="http://WWW.ACTIVARCPG.COM">WWW.ACTIVARCPG.COM</a> FOR THE MOST UPDATED PRODUCT INFORMATION • AN ACTIVAR CONSTRUCTION PRODUCTS COMPANY<br>ACPG WEST COAST (AIR LOUVERS MANUFACTURING):COMMERCE CA • WAREHOUSES:LANCASTER PA, ATLANTA GA, CHICAGO IL , Bloomington MN |                     |                                               |



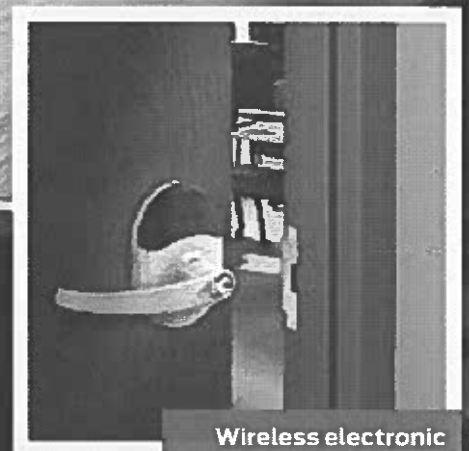
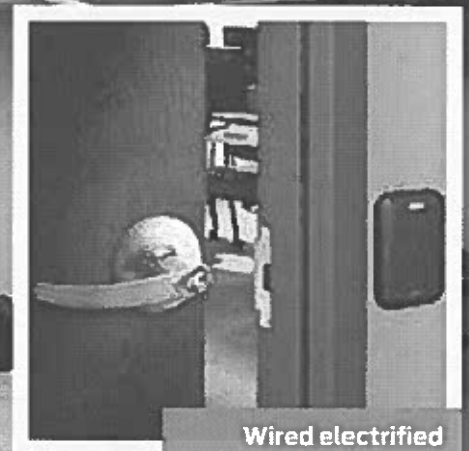
ALLEGION™

**SCHLAGE**

# ND Series

Grade 1 cylindrical locks

Mechanical  
Wired electrified  
Wireless electronic



# The Schlage® ND Series cylindrical locks

Walter Schlage invented the cylindrical lock in 1920. Since then, Schlage Lock Company has consistently delivered innovation and continuous improvement. In that tradition, we are extremely proud to introduce the redesigned ND Series cylindrical lock.

Most manufacturers' approach to locks ends with simply meeting industry standards like Grade 1. With the Schlage ND, Grade 1 is just the beginning.

## Performance beyond Grade 1

The Schlage ND family significantly exceeds BHMA Grade 1 requirements for cycle, lever torque, hammer blow, lever pull and other tests. This means confidence that the lock will last—whether the application calls for high abuse resistance or just operation over millions of cycles—without any degradation in performance.

## Comprehensive offering for every opening

Mechanical, wired electrified and wireless electronic solutions allow a common aesthetic and consistent user experience throughout the building while lowering the total cost of ownership.

## World-class design

A proven, easy to install product with extensive function, keying, trim and finish capabilities that work in nearly any applications.



## ND mechanical



### Applications

The Schlage ND is extremely versatile and is regularly used in healthcare, education, government, office, retail and other commercial applications.

With 31 mechanical functions, the ND's range spans from the simple (non-locking passage) to complex (double-cylinder security) to specialized (school time-out lock).

Because the ND uses an ANSI 161 door prep, commonly used across cylindrical locks, it is ideal for both new construction and retrofit applications.

### Key features

- Significantly exceeds ANSI/BHMA A156.2 requirements for Grade 1 cylindrical locks
- 31 mechanical functions (see adjacent columns for wired electrified and electronic options)
- Five lever designs, two rose designs
- 10 available finishes
- Supports standard, SFIC and FSIC cylinder formats
- Multiple key systems available – open, patented, restricted, geographic exclusive, UL437
- Support for 10 non-Schlage cores (see cylinder section)

## ND wired electrified



### Applications

Wired electrified locks complement the mechanical offering and are typically incorporated into a wired access control system or used independently with a remote access switch (e.g. switch behind a receptionist desk).

The electrified ND is ideally used in:

- high traffic areas, where line power ensures continuous operation
- new construction, where electrified door prep, hinges and wiring can easily be incorporated into the building

### Key features

All mechanical features<sup>1</sup> plus:

- auto-detecting 12-24VDC input
- selectable EL/EU operation
- low 0.23 amp max current draw that allows multiple locks on a single power supply
- low 0.010 amp holding current that eliminates “hot levers” in electrically locked applications
- modular Request to Exit (RX) that can be added at any time
- inventory friendly—one lock supports 12-24V, EL or EU, with or without RX
- six electrified functions for application flexibility

## NDE wireless electronic



### Applications

Wireless electronic locks complete the offering by delivering all of the access control system hardware components required at the door in a single integrated design.

NDE wireless lock applications include:

- retrofit applications where electronic credentials can be used for improved visibility and control
- new construction to expand the scope of access control to interior openings
- low to medium traffic areas, where battery power delivers long life

### Key features

All mechanical features<sup>1</sup> plus:

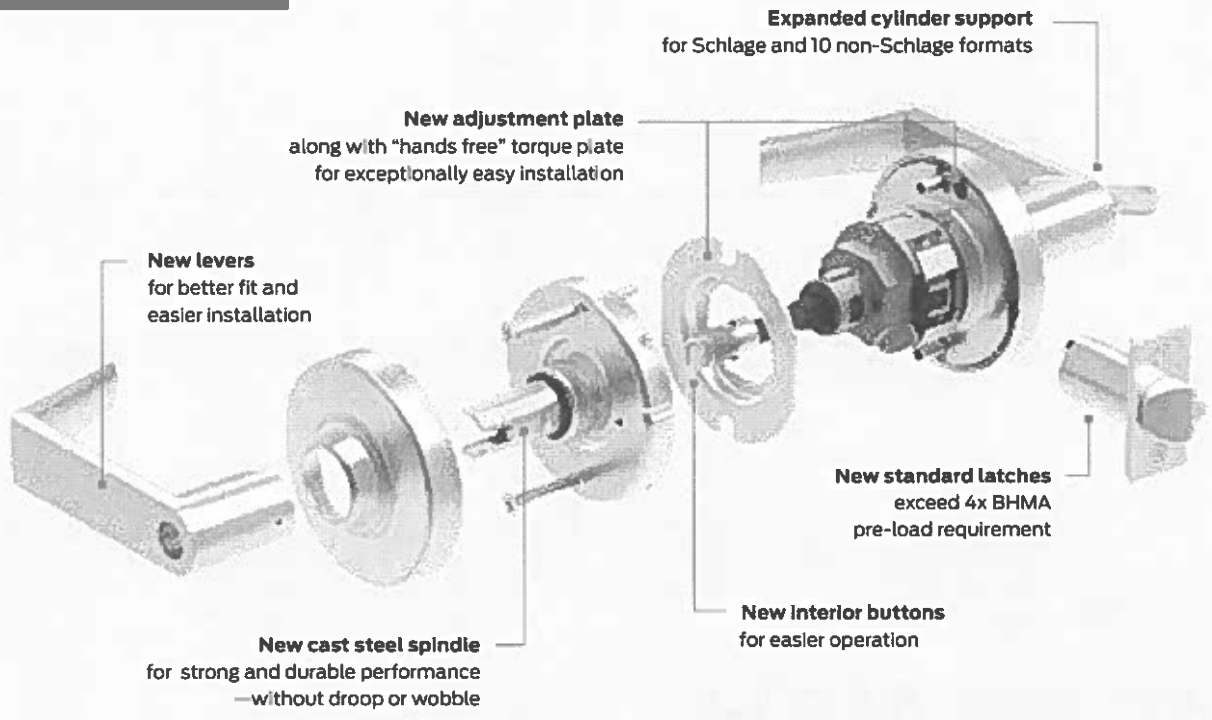
- Fits standard ANSI 161L mechanical door prep
- Installs in minutes with only a Phillips screwdriver
- Integrated card reader, door position sensor and Request to Exit (RX) switch
- Built-in Bluetooth<sup>®</sup> enables wireless configuration from smart phones and tablets
- Built-in Wi-Fi enables automatic updates to access rights
- Capable of networked real-time communication<sup>2</sup>
- Up to 2 years of battery life (4 AA)

<sup>1</sup> NDE wireless electronic lock available in 3 lever designs, 1 rose design, and 9 finishes only

<sup>2</sup> Requires ENGAGE™ Gateway and alliance access control software

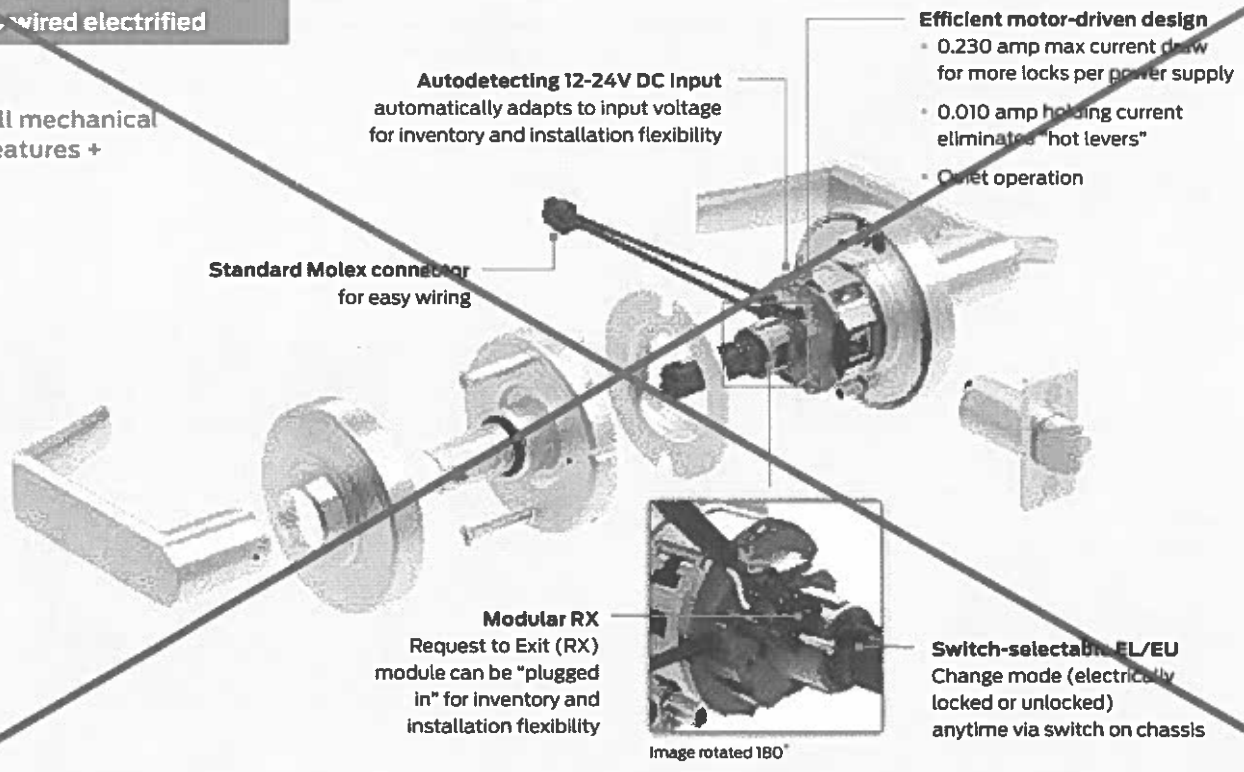
A detailed look...

**ND mechanical**



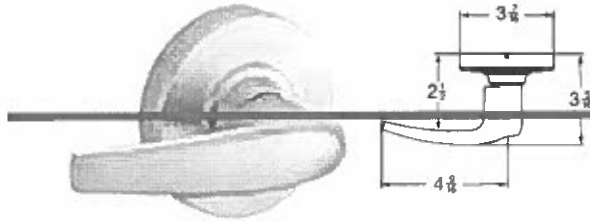
**ND wired electrified**

All mechanical features +



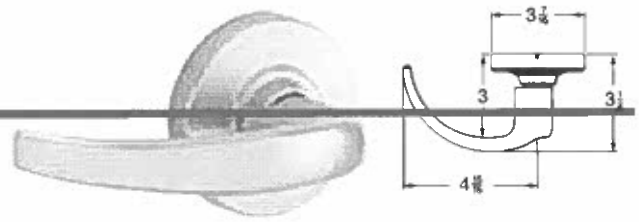
# Lever designs and finishes

Athens (ATH)<sup>2</sup>



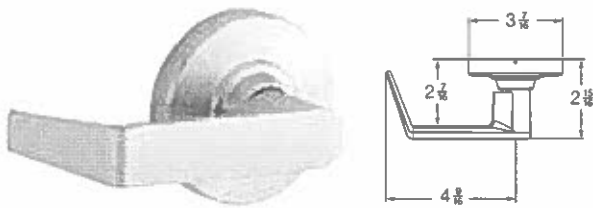
Mechanical    Wired electrified    Wireless electronic

Sparta (SPA)<sup>1,2</sup>



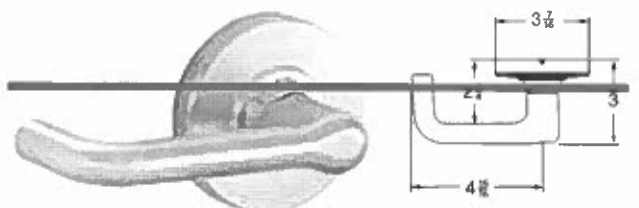
Mechanical    Wired electrified    Wireless electronic

Rhodes (RHO)<sup>1,2</sup>



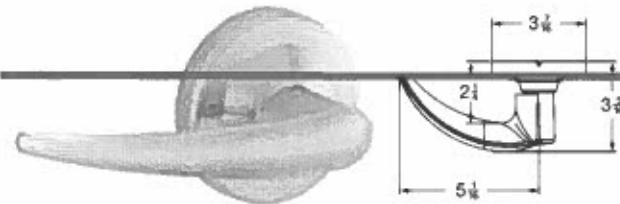
Mechanical    Wired electrified    NDE wireless electronic

Tubular (TLR)<sup>1,2</sup>



Mechanical    Wired electrified

Omega (OME)<sup>1</sup>



Mechanical    Wired electrified

All levers comply with the Americans with Disabilities Act (ADA).

- 1 Rhodes, Sparta, Tubular and Omega levers comply with California State code for return within 1/2" of door face.
- 2 All levers except Omega can support cylinders from other manufacturers, see cylinder section page 24 for details.

## Finish options

| Color               | Bright brass | Satin brass | Satin bronze | Oil rubbed bronze | Satin nickel | Matte black | Bright chrome | Satin chrome | Aged bronze |
|---------------------|--------------|-------------|--------------|-------------------|--------------|-------------|---------------|--------------|-------------|
| ANSI/BHMA number    | 605          | 606         | 612          | 613               | 619          | 622         | 625           | 626/626AM    | 643e        |
| US number           | US3          | US4         | US10         | US10B             | US15         | US19        | US26          | US26D        | US11        |
| Mechanical          | ■            | ■           | ■            | ■                 | ■            | ■           | ■             | ■            | ■           |
| Wired electrified   | ■            | ■           | ■            | ■                 | ■            | ■           | ■             | ■            | ■           |
| Wireless electronic | ■            | ■           | ■            | —                 | ■            | ■           | ■             | ■            | ■           |

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

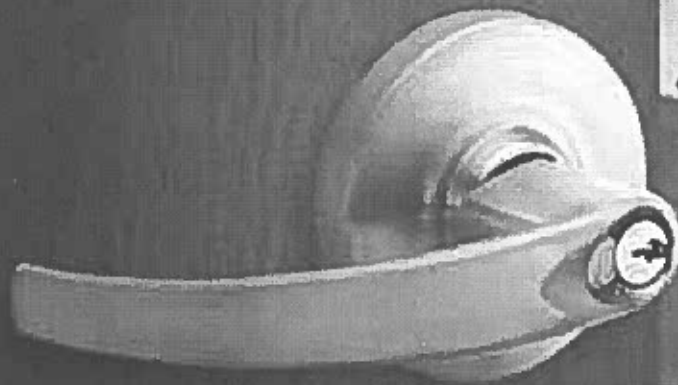
Selection guide  
Key features  
Trims and finishes  
Mechanical  
Wired electrified  
Wireless electronic  
Keys and credentials  
Parts  
Specifications

# ND Series mechanical lock

The ND mechanical lock, along with being Schlage's best selling mechanical lock, is the foundation for both the wired electrified and NDE wireless electronic lock. Not only did Schlage invent the cylindrical lock, but we continue to make it better and are pleased to announce the following updates for Spring 2017:

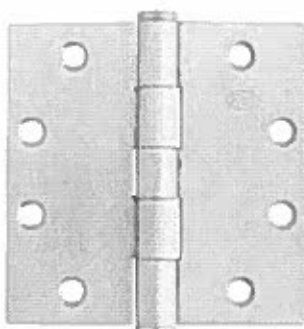
- Unparalleled strength - the lock prevents access even when subjected to torque loads up to 3,100 in-lbs (2.6x BHMA<sup>1</sup>), withstands pry bar attacks of 1,600 lbs (8x BHMA requirements<sup>1</sup>), and withstands 100 hammer blows (20x BHMA requirements<sup>1,2</sup>)
- Exceptional durability - cycle tested to over 16M cycles (16x BHMA requirements<sup>1</sup>) with near zero droop or wobble - without the use of set screws or O-rings
- Improved feel - improved strength and durability are more than numbers, you can actually feel it in the lock
- Improved installation - installation is even easier than before (and without any set screws or O-rings)

All this is in addition to what you know and expect with the Schlage ND: 31 mechanical functions (plus wired electrified and wireless electronic) to meet the needs of any application; five lever designs that suite with other Schlage locks and Von Duprin exit devices; simple installation and renowned sales, customer, and technical support.



<sup>1</sup> Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SFIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.

<sup>2</sup> Vertical impact testing stopped after 100 blows with no sign of failure or stress.



Meets ANSI/BHMA A156.1  
A8133 – Steel  
A5133 – Stainless Steel  
A2133 – Brass

**5PB1 5 Knuckle, Plain Bearing Full Mortise Hinge**

- For standard weight doors
- Low frequency usage
- Packed with wood and metal screws

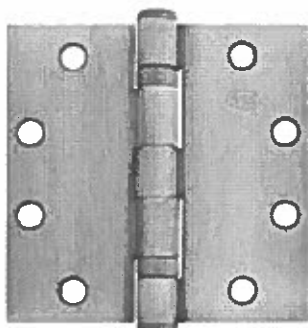
*Not for use with a door closer.*

**Options**

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

**Dimensions**

| Size (Inches) | Size (mm) | Gauge |
|---------------|-----------|-------|
| 3.5 x 3.5     | 89 x 89   | 0.123 |
| 4 x 4         | 102 x 102 | 0.134 |
| 4.5 x 4       | 114 x 102 | 0.134 |
| 4.5 x 4.5     | 114 x 114 | 0.134 |
| 5 x 4.5       | 127 x 114 | 0.134 |



Meets ANSI/BHMA A156.1  
A8112 – Steel  
A5112 – Stainless Steel  
A2112 – Brass

**5BB1 5 Knuckle, Ball Bearing Full Mortise Hinge**

- For standard weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

**Options**

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

**Dimensions**

| Size (Inches) | Size (mm) | Gauge | Size (Inches) | Size (mm) | Gauge |
|---------------|-----------|-------|---------------|-----------|-------|
| 3.5 x 3.5     | 80 x 102  | 0.130 | 5 x 4.5       | 127 x 114 | 0.146 |
| 4 x 4         | 102 x 102 | 0.130 | 5 x 5         | 127 x 127 | 0.146 |
| 4.5 x 4       | 114 x 102 | 0.134 |               |           |       |
| 4.5 x 4.5     | 114 x 114 | 0.134 |               |           |       |

**Finishes brass**

| Ives Finish | US3 | US4 | US10 | US10B | US10A | US11 | US15 | US26 | US26D |
|-------------|-----|-----|------|-------|-------|------|------|------|-------|
| BHMA        | 605 | 606 | 612  | 613   | 614   | 616  | 619  | 625  | 626   |

**Finishes steel**

| Ives Finish | USP | US3 | US4 | US10 | US10B | US10A | US11 | US15 | US26 | US26D |
|-------------|-----|-----|-----|------|-------|-------|------|------|------|-------|
| BHMA        | 600 | 632 | 633 | 639  | 640   | 641   | 643  | 646  | 651  | 652   |

**Finishes stainless steel**

| Ives Finish | US32 | US32D |
|-------------|------|-------|
| BHMA        | 629  | 630   |

Hinges & Pivots  
Puls & Plates  
Flush Bolts & Coordinators  
Latches, Catches & Bolts  
Stops  
Exterior Hardware  
Miscellaneous Hardware



Path: [Online Catalog](#) - [Weatherstrips](#) - [Door Sweep/Nylon Brush](#) - 962C

**Installation Drawing**

Reese Catalog Number: 962C

Description: 962C - Anodized Clear Aluminum, Door Sweep

Weatherstrip Nylon Brush Insert

Retail Price\*: \$ 8.81 per foot



Fire Rated

Quantity: 1

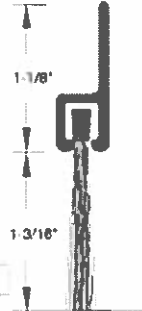
Options:

Length \_\_\_\_\_ inches

Comment (specify fractional inches or comments here)

Fire Rated

Yes  No



All parts come with holes unless otherwise specified.

\* Note all items are listed at retail price.

Your actual price will vary.

[Place Item in Cart](#)

Call and hear for yourself.  
**1-800-328-0953**

Path: [Online Catalog](#) - [Thresholds](#) - [Saddle Threshold](#) - S204A

**Installation** | **Drawing**

Reese Catalog Number: S204A

Description: S204A - Mill Aluminum Saddle Threshold. 1/2" x 4"

Retail Price\*: \$ 7.98 per foot



Fire Rated



Handicap Accessible

Quantity:

Options:

Length

inches

Comment (specify fractional inches or comments here)

Fire Rated

Yes  No

All parts come with holes unless otherwise specified.

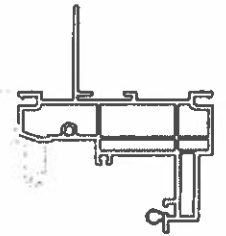
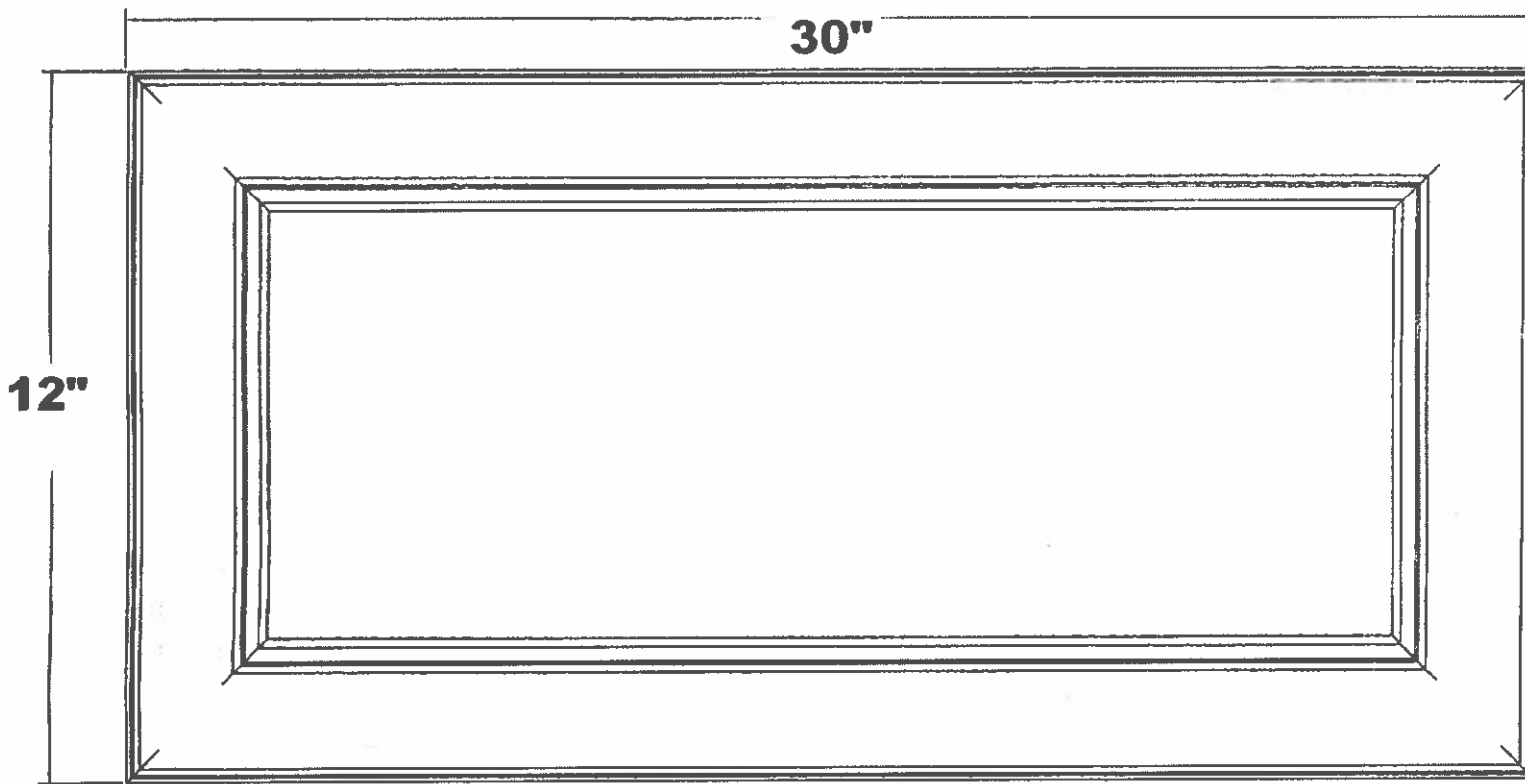
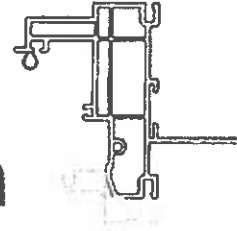
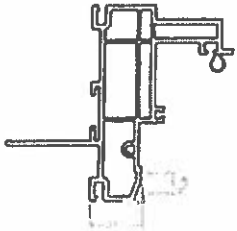
\* Note all items are listed at retail price.

Your actual price will vary.

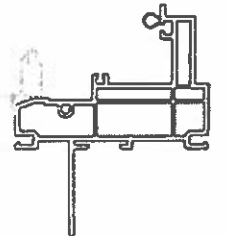


Call and hear for yourself.  
**1-800-328-0953**

# Parco BLACK Vinyl Bug Screen

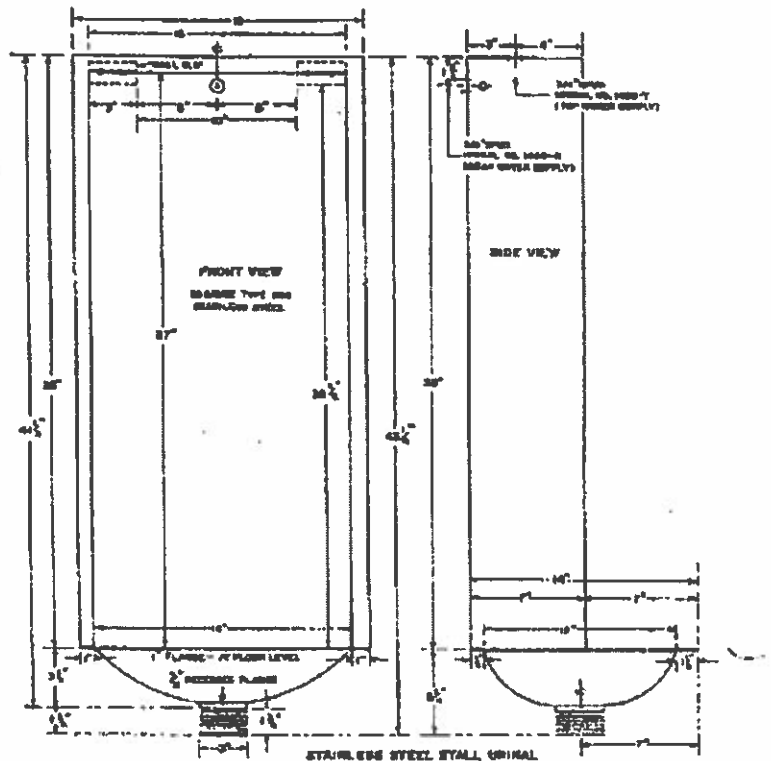


**Sizes per drawing:**

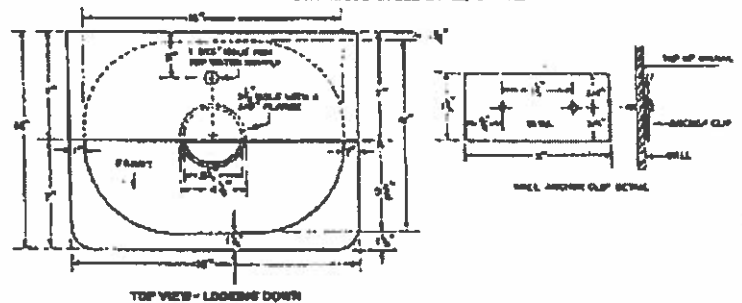


# SS 1500

## Stainless Steel Dry Stall Urinal



This unit is constructed of 20 gauge Type 304 Stainless Steel with a #4 brushed finish to offer an attractive and easy to clean fixtures. This unit is primarily used in waysides, campgrounds, and parks where breakage and unsanitary conditions may be a problem. Included with this unit are heavy gauge wall hangers and a quality all brass flat grid strainer for 2" I.P.S. Joint.



All Shipped Via U.P.S.

## 1½" O.D. heavy duty stainless steel grab bar with concealed mounting:

### Product Materials

**FLANGES:** 3¼" dia. 13 gauge stainless steel.

**ESCUTCHEONS:** 22 gauge stainless steel. One-piece drawn construction with exposed surfaces in architectural satin finish. Snap over flanges to conceal mounting screws.

**TUBING:** 1½" O.D. 18 gauge stainless steel, seamless construction with exposed surfaces in architectural satin finish. Bent ends of tubing pass thru the flanges and are welded for maximum strength. Intermediate supports are contour cut and joined by welding to form an integral part of the grab bar. All exposed welds ground and polished to blend. Mandrel bending process maintains uniform bar diameter. Return provides 1½" standard safety clearance between wall and bar.

### Strength

When properly mounted, all Bradley heavy duty grab bar systems meet or exceed the requirements of ANSI Standard A117.1, the ADA and ABA Accessibility Guidelines for Buildings and Facilities (ADAAG), and the Uniform Federal Accessibility Standard (UFAS). In addition, the following configurations can support up to 1,000 pounds: -001, -054; -055, -059, -060. (Please see Bradley's web site for more information on all grab bar configurations.)

### Installation

Verify all rough-in dimensions prior to installation. Secure to wall where adequate in-wall backing exists. Use bar as template to locate mounting holes. Drill holes and set anchors as appropriate. Mount grab bar and secure mounting screws. Snap escutcheons into place. For information on Bradley grab bar mounting kits, please visit [bradleycorp.com](http://bradleycorp.com).

### Optional Features

| Features                                                                | Suffix |
|-------------------------------------------------------------------------|--------|
| <input type="checkbox"/> Safety-grip finish                             | -2     |
| <input type="checkbox"/> High-polish finish                             | -4     |
| <input type="checkbox"/> Safety grip with high-polished finish          | -7     |
| <input type="checkbox"/> Antimicrobial finish: 18", 24", 36" & 42" only | -AM    |

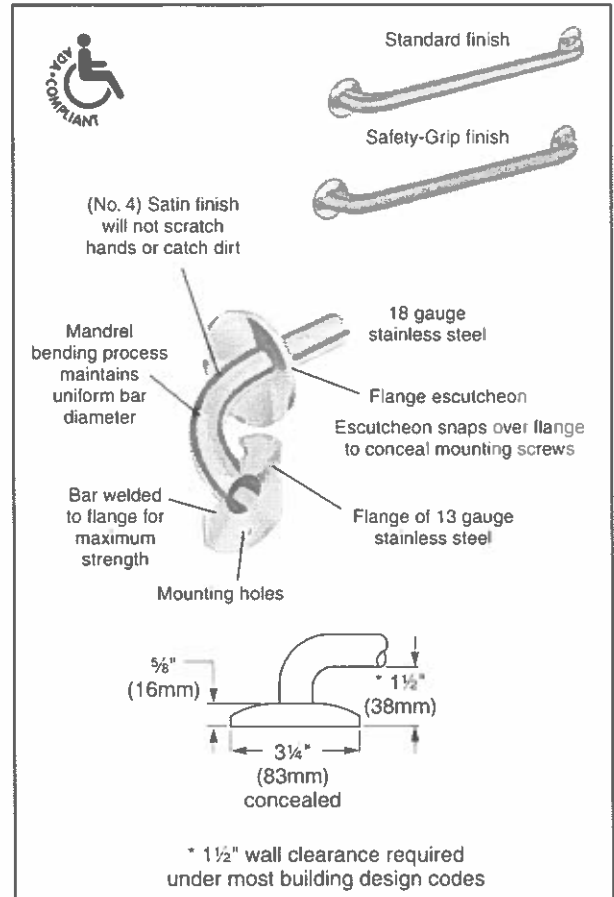
### Guide Specification

Grab bar shall be fabricated of satin finish stainless steel with concealed mounting flanges in sizes and configurations as indicated. Install with Bradley Mounting Kits as indicated.

### ADA Compliant

- Consult local and national accessibility codes for proper installation guidelines.
- Conformity and compliance to local and national codes is the responsibility of the installer.

**Washroom Accessories  
Document No. 8810**



### Bradex® Models

| Configuration Number | Shipping Data |          | Configuration Number | Shipping Data |          |
|----------------------|---------------|----------|----------------------|---------------|----------|
|                      | Cu. Ft.       | Wt. Lbs. |                      | Cu. Ft.       | Wt. Lbs. |
| 001-18*              | 0.14          | 2        | 001-42*              | 0.15          | 4        |
| 001-24*              | 0.14          | 3        | 001-42*-10*          | 3.14          | 37.67    |
| 001-30*              | 0.15          | 3        | 001-48*              | 0.25          | 4        |
| 001-36*              | 0.15          | 3        | 059**                | 2.85          | 7        |
| 001-36-10*           | 2.40          | 30.46    |                      |               |          |

NOTE: These units must ship via common carrier.  
 \*\* 059: 40" x 52" Standard Dimensions.  
 • Indicates available Safety Grip. **Bradex®**

Orders composed of products indicated as **Bradex®** will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

© 2011 Bradley Corporation  
 P.O. Box 309, Menomonee Falls, WI 53052-0309  
 Phone: 800.BRADLEY (800.272.3539) Fax: 262.253.4161  
[bradleycorp.com](http://bradleycorp.com)



# COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT

MODEL #

COLOR #

## 1955CT/1955SSCT

### DESCRIPTION :

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SSCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with American National Standard Z124.5 Toilet (Water Closet) Seats as a class Commercial Heavy Duty.

### SPECIFICATIONS :

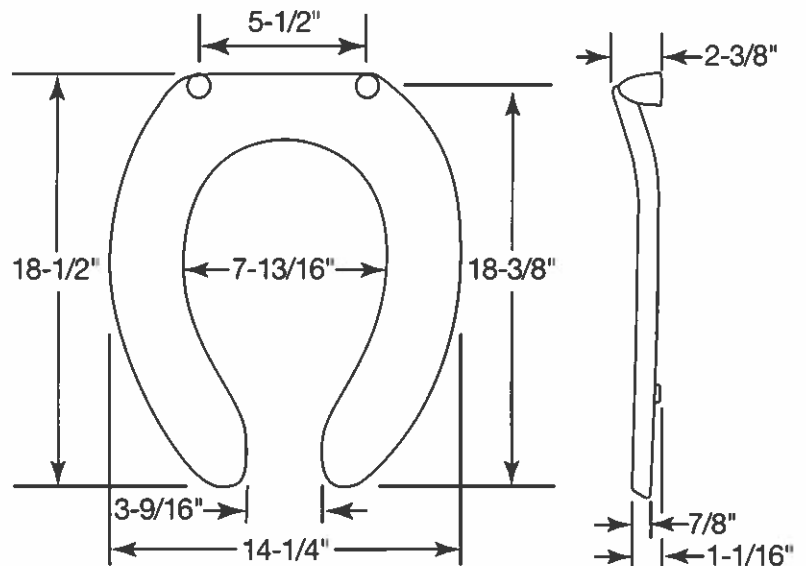
|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Size:             | Elongated                                                                                                            |
| Material:         | Plastic                                                                                                              |
| Style:            | Open Front less Cover                                                                                                |
| Bumpers:          | Four                                                                                                                 |
| Hinges:           | Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SSCT) with 300 Series Stainless Steel Posts and Pintles |
| Fastening System: | STA-TITE® Commercial Fastening System™                                                                               |

### FEATURES :

STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

### DIMENSIONS :



PLASTIC HINGES WITH  
STAINLESS STEEL POSTS  
AND PINTLES



STA-TITE® COMMERCIAL  
FASTENING SYSTEM™



## POLYETHYLENE TOILET RISER

### Description

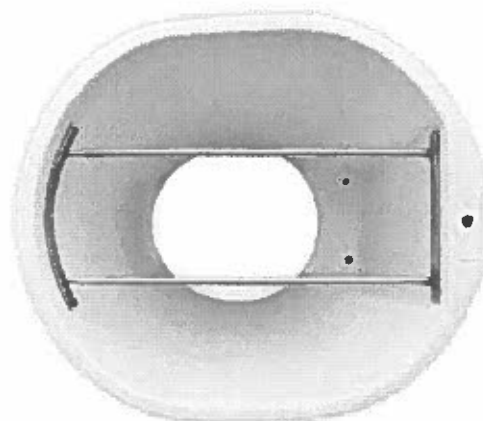
The Romtec Toilet Riser is a single piece molded fixture for use in vault toilets. It can be installed in any new or existing vault toilet facility. The smooth polyethylene material cleans easily, will not support bacterial growth, is impervious to chemicals and resists vandalism. The toilet riser is supplied with a heavy-duty, high impact polypropylene seat and lid with mounting hardware.

### Specifications

|                                       | <b>ASTM Test</b> | <b>Nom. Value</b>       |
|---------------------------------------|------------------|-------------------------|
| <b>Density</b>                        | D-1505-85        | 0.938 g/cm <sup>3</sup> |
| <b>Tensile strength at yield</b>      | D-638-84         | 2,575 psi               |
| <b>Elongation at break</b>            | D-638-84         | 400%                    |
| <b>Tensile modulus of elasticity</b>  | D-638-84         | 80,000 psi              |
| <b>Flexural modulus</b>               | D-790            | 100,000 psi             |
| <b>Heat deflection temp @ 66psi</b>   | D-648            | 138 deg. F              |
| <b>Vicat softening temp</b>           | D-1525           | 248 deg. F              |
| <b>Impact Brittleness Temp</b>        | D-746-79         | <-180 deg.              |
| <b>Dart Impact (-40 deg C)</b>        | ARM Std. (B)     | 60 ft-lb. 125mil        |
| <b>Envir. stress crack resistance</b> | D-1693-70        | > 1,000 HRS.            |

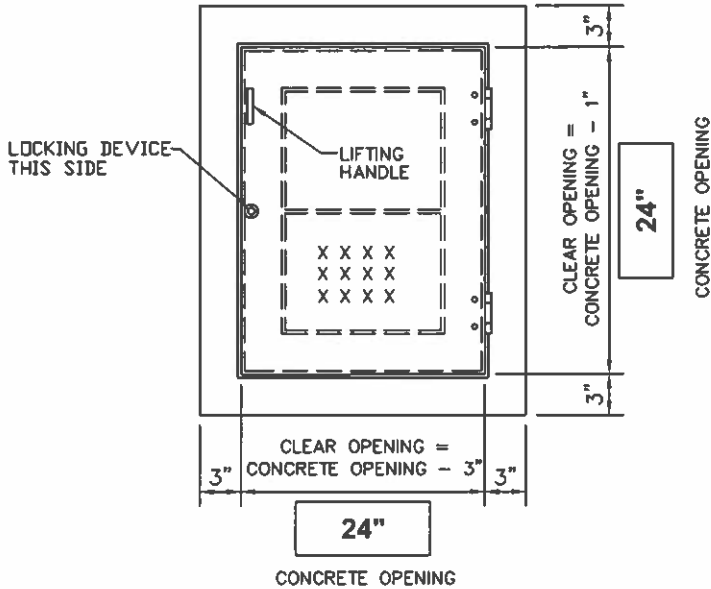
- Patented Design: US Patent No. 5983415
- Materials: Polyethylene, White
- Riser Dimensions:
  - Overall: 18" high, 5" flange, 20-5/8" x 16 1/2" oval
  - Avg. thickness of material: 1/8"
  - Weight: 23 lbs, including seat and lid

- Stainless Steel  
Safety Riser Bar  
sold separately  
unless purchased  
through Romtec  
building package.



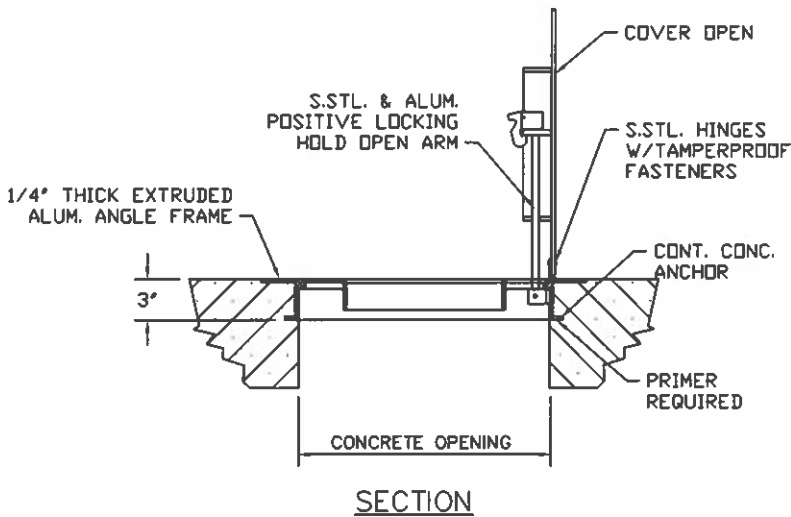


MODEL NO. S1R024024C-----  
 QUANTITY: 1  
 ORDER NO.  
 DATE:  
 LOCATION/TAG:



**STANDARD FEATURES:**

- 1/4 ALUMINUM TREAD PLATE COVER
- 1/4 THICK ALUMINUM FRAME EXTRUSION
- T-316 STAINLESS STEEL HARDWARE
- S.STL. & ALUM. HOLD OPEN ARM
- RECESSED LIFT HANDLE
- LIFETIME GUARANTEE
- 300 LB. PER SQ. FT. LOAD RATING



**OPTIONS/FEATURES:**

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | PADLOCK BAR                         |
| <input checked="" type="checkbox"/> | S.STL. SLAM LOCK W/ KEY             |
| <input type="checkbox"/>            | RECESSED LOCK BOX                   |
| <input type="checkbox"/>            | KEYED CYLINDER LOCK                 |
| <input type="checkbox"/>            | SPRING ASSIST                       |
| <input type="checkbox"/>            | EPDM GASKET/CUSHION                 |
| <input type="checkbox"/>            | BITUMINOUS COATING                  |
| <input type="checkbox"/>            | PVC PROTECTIVE FILM                 |
| <input type="checkbox"/>            | SLAB SKIRT HEIGHT (INCLUDING FRAME) |
| <input type="checkbox"/>            | CLEAR ANODIZED FINISH               |
| <input type="checkbox"/>            | LACQUER FINISH                      |
| <input type="checkbox"/>            | SAFETY CABLE W/ POST                |
| <input type="checkbox"/>            | REMOVED CONT. CONC. ANCHOR          |
| <input type="checkbox"/>            | 2" INSULATION W/ CAPTIVE PAN        |
| <input type="checkbox"/>            | NUTRIL - SPECIFY LENGTH & LOCATION  |
| <input type="checkbox"/>            | 1/2 X 2 CENTER BAR                  |
| <input type="checkbox"/>            | BOLT DOWN COVER                     |
| <input type="checkbox"/>            | INSPECTION DOOR                     |
| <input type="checkbox"/>            | MODULAR DESIGN                      |
| <input type="checkbox"/>            | MISCELLANEOUS                       |



HDPE Pipe

# High-Density Polyethylene Pipe

## Introduction

ISCO Industries, LLC is the largest high-density polyethylene pipe distributor in North America. ISCO can serve your needs anywhere in the USA and internationally. ISCO offers a complete package of HDPE piping products. Butt fusion machines are offered for sale or rental. Fusion technicians are available to provide on-site training or assistance to your project. Please call 1-800-345-ISCO for all your HDPE piping needs.

## Some of The Characteristics of HDPE Pipe are:

|                             |                                   |
|-----------------------------|-----------------------------------|
| Economical                  | Flexible and Coilable             |
| Corrosion Resistant         | Heat Fused                        |
| Zero Leak-Rate              | Mechanically Joined (As Needed)   |
| Hydraulically Smooth        | Strong and Ductile                |
| Fatigue and Surge Resistant | Weather Resistant                 |
| Long Design Life            | Impact Resistant                  |
| Tappable                    | Freeze Resistant                  |
| Chemically Resistant        | Durable                           |
| Easily Installed            | Abrasion Resistant                |
| Small to Large Diameters    | Inert                             |
| Non-Toxic, Non-Tasting      | Self Restrained Pipe (Monolithic) |
| Lightweight                 | Listed and Approved               |
| Reliable                    |                                   |

1-800-345-ISCO

www.isco-pipe.com

10

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ISCO





# ChemMasters®

## Aquanil Plus 40

Penetrating Silane Sealer  
for Concrete and Masonry

SPECIALTY CONSTRUCTION PRODUCTS

### P R O D U C T                      D A T A

#### DESCRIPTION

**Aquanil Plus 40** is a penetrating, chemically reactive alkyltrialkoxysilane 40% solids, solvent based silane sealer that repels moisture and water from concrete and masonry. **Aquanil Plus 40** is non-etching, will not harm most uncoated glass, metal frames, or painted surfaces and leaves no residue to clean. **Aquanil Plus 40** is formulated to comply with National Volatile Organic Compounds (VOC) Emission Standards for Architectural Coatings Federal EPA Regulation 40 CFR Part 59.

#### USES

- Horizontal or vertical, exterior or interior, cured concrete and masonry.
- Residential, commercial, industrial and municipal applications.
- All types of concrete flatwork, parking lots and structures, driveways, plazas, patios and walkways
- Median barriers, bridge decks and piers, ramps, pavements.
- Marine structures, vehicular repair and wash down facilities, loading docks.

#### ADVANTAGES

- No need to mask uncoated windows, metal frames, or painted surfaces – does not etch surfaces, leaves no residue, requires no cleaning after application.
- Minimizes chloride ion penetration from deicing chemicals, acid precipitation, salt air, and water in marine environments that reduces corrosion of the reinforcing steel from chloride exposure.
- Reduces spalling of new concrete surfaces due to freeze-thaw cycling.
- Chemically reacts with concrete and masonry components for long lasting protection.
- Penetrates deeply for maximum protection
- Seals pores and capillaries of substrate preventing liquid absorption while allowing excellent vapor transmission
- Does not alter the appearance or texture of substrates

#### TECHNICAL DATA

Meets National VOC Emission Standards for Architectural Coatings Federal EPA Regulation 40 CFR Part 59 < 600 g/L.

##### NCHRP 244 Test Data

|                             | Control<br>% reduction | Aquanil Plus 40<br>% reduction |
|-----------------------------|------------------------|--------------------------------|
| Weight Gain                 | 0                      | 85                             |
| <b>Chloride Ion Content</b> |                        |                                |
| Northern Exposure           | 0                      | 88                             |
| Southern Exposure           | 0                      | 97                             |

##### Test Data

|                                                            |                                   |
|------------------------------------------------------------|-----------------------------------|
| ASTM E 514 Water Repellency<br>Wind Driven Rain Conditions | 100 % reduction                   |
| ASTM C 672 Scaling Resistance                              | Passes                            |
| ASTM C 642 Absorption                                      | 95% red'n 24 hrs                  |
| ASTM E 96<br>Water Vapor Transmission                      | 8% reduced rate<br>vs control     |
| ASTM G 53 Weathering<br>2,400 hours                        | < 5% loss<br>of repellency        |
| ASTM D 1653<br>Permeability                                | > 85% breathability<br>vs control |
| Appearance                                                 | Clear                             |
| VOC Content                                                | <600 g/L                          |
| Drying Time                                                | 2 to 4 hrs                        |
| Reaction Time @ 50% R.H.                                   |                                   |
| 70°F (21°C)                                                | 24 hrs                            |
| 50°F (10°C)                                                | 48 hrs                            |
| Solids                                                     | 35 to 45%                         |
| Flash Point                                                | 105°F (40°C)                      |

##### Packaging / Part Number

|              |           |          |
|--------------|-----------|----------|
| 5 gal/ 18.9L | 36/pallet | F3315.05 |
| 55 gal/208L  | 4/pallet  | F3315.55 |



**ChemMasters®**

An American Owned & Operated Company  
300 EDWARDS STREET • MADISON, OHIO 44057-3112 (440) 428-2105 • FAX (440) 428-7091 • ORDER LINE: (800) 486-7866 www.chemmasters.net

February 2017

### Estimating Guide

| Surface           | ft <sup>2</sup> / gal (m <sup>2</sup> /L) |
|-------------------|-------------------------------------------|
| Brick             | 100 to 150 (2.5 to 3.7)                   |
| Cement Stucco     | 100 to 150 (2.5 to 3.7)                   |
| Concrete          | 100 to 150 (2.5 to 3.7)                   |
| Exposed Aggregate | 100 to 150 (2.5 to 3.7)                   |
| Precast           | 125 to 150 (3.0 to 3.7)                   |

### DIRECTIONS

**Surface Preparation:** May be applied at 14 to 28 days after concrete installation based on mix design, rate of cure and environmental conditions. Surface and ambient temperatures must be a minimum of 40°F (4°C). Do not apply to frozen or frosted surfaces.

Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, curing or sealing compounds, tilt up bond breakers and other contaminants that would prevent proper penetration. Extremely dense surfaces such as burnish trowel finished floors may be given a light acid wash to promote adequate penetration.

Protect vegetation from overspray. If spills or overspray occur thoroughly rinse vegetation with water.

**Repairs:** All cracks and deteriorated surfaces should be repaired prior to application of **Aquanil Plus 40**. Joints and channels should be taped or filled to prevent later adhesion problems. Consult ChemMasters technical service staff for product recommendations.

**Mixing:** **Aquanil Plus 40** is packaged ready to use and does not require any special mixing.

**Application:** Apply **Aquanil Plus 40** with a low pressure, solvent resistant, airless sprayer generating 15 psi and equipped with a fan nozzle or use a roller. Follow recommended application rates listed above.

On vertical surfaces, allow 6 inch minimum run down. Maximum run down is 12 inches. Excessive run down or over application can cause discoloration of the substrate.

Horizontal surfaces may be opened to traffic as soon as substrate is dry usually 1 hour at 72°F/22°C with 50% R.H.

### Cleanup

Clean tools and equipment used to apply **Aquanil Plus 40** with **Polyseal solvent**, xylene or mineral spirits before material dries.

### STORAGE

Store **Aquanil Plus 40** in tightly closed containers in cool dry area away from direct sunlight or sources of heat.

Shelf life of properly stored material is two years from date of manufacture.

### LIMITATIONS

- **Aquanil Plus 40** may remove special coatings from glass. Test small areas prior to application.
- **Aquanil Plus 40** will "frost" or damage plastic window panes.
- Do not apply when surface or ambient temperature is below 40°F (4°C) or above 100°F (38°C).
- Do not apply to wet or damp surfaces or if rain is expected within 4 hours of application.
- If joints or channels are to be filled at a later date tape or mask prior to application to prevent adhesion problems.
- **Aquanil Plus 40** is a penetrating sealer designed to reduce the intrusion of water and salts. It is not a waterproofing membrane and thus cannot be expected to bridge cracks or joints in the concrete.
- **All label precautions and the Safety Data Sheet (SDS) must be fully understood before using this product.** Go to [www.chemmasters.net](http://www.chemmasters.net) for the most up to date data sheets or contact ChemMasters at 800.486.7866.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

### PRECAUTIONS

**For use outdoors only. Not for indoor use.**

**DANGER :** Flammable Liquid and Vapor. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

**Precautionary Statements:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**For professional use only.**

**Keep out of reach of children.**

**See the safety data sheet for hazard information.**

### This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE COURSE OF DEALING OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

PRODUCT DATA

**7 07 92 00** Joint Sealants

# SONOLASTIC® NP 1™

One-component, elastomeric, gun-grade polyurethane sealant

### Description

NP 1™ is a one-component, high-performance, nonpriming, gun-grade, elastomeric polyurethane sealant. It requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry.

### Yield

See page 3 for charts.

### Packaging

300 ml (10.1 fl oz) cartridges, 30 cartridges per carton  
20 fl oz (590 ml) ProPaks, 20 per carton

For color availability in bulk packaging, call Customer Service.

### Color

White, off-white, limestone, anodized aluminum, stone, tan, aluminum gray, precast gray, medium bronze, special bronze, redwood tan, ash brown and black.

### Shelf Life

Cartridges and ProPaks: 1 year when properly stored.

### Storage

Store in original, unopened containers away from heat and direct sunshine. Storing at elevated temperatures will reduce the shelf life.

### Features

- Ready to use
- Joint movement capability  $\pm 35\%$
- Easy to gun and tool
- Available in cartridges, 20 ounce ProPaks, and in bulk
- Twelve standard colors
- No primer required for most construction materials
- Weather resistant
- Wide temperature-application range
- Compatible with nonrigid coatings
- Superior holding power
- UL listed
- Suitable for water immersion
- Low VOC content

### Benefits

- Requires no mixing; reduces labor costs
- Provides excellent flexibility for keeping moving joints tight
- Speeds application and makes neater joints
- Reduces jobsite waste, lowers disposal costs
- Matches common substrates
- Lowers installation costs
- Produces long-lasting weather-tight seals
- Suitable for all climates
- May be painted
- Long-lasting roof tile installation
- Passes 4 hour, 4 inch, fire and hose stream test when used with Ultra Block® or mineral wool
- Documented performance in wet areas
- Meets VOC requirements in all 50 states

### Where to Use

#### APPLICATION

- Expansion joints
- Curtain wall construction
- Panel walls
- Precast units
- Aluminum and wood window frames
- Roofing
- Fascia
- Parapets
- Structural components
- Vinyl siding
- Wastewater treatment plants
- Dams
- Spillways and storm drains
- Wetwells and manholes

#### LOCATION

- Interior and exterior
- Above and below grade
- Immersed in water

#### SUBSTRATE

- Concrete
- Masonry
- Aluminum
- Wood
- Clay & concrete roof tiles

## Technical Data

### Composition

Sonolastic® NP 1™ is a one-component moisture-curing polyurethane.

### Compliances

- ASTM C 920, Type S, Grade NS, Class 35. Use NT, M, A, G\*, O\*\* and I
- Federal Specification TT-S- 00230C, Type II, Class A
- Corps of Engineers CRD-C- 541, Type II, Class A
- Canadian Specification CAN/CGSB-19.13-M87. Classification MCG-2-25-A-N, No. 81026
- USDA compliant for use in meat and poultry areas
- Underwriters Laboratories Inc.\* classified (fire resistance only)
- Canadian approval for use in establishments that handle food
- SWR Institute validated
- ISO 11600-F-25LM

\* NP1 not recommended for application on glass.

\*\* Refer to substrates in Where to Use.

### Typical Properties

| PROPERTY                                    | VALUE                     |
|---------------------------------------------|---------------------------|
| <b>Service temperature range, ° F (° C)</b> | -40 to 180<br>(-40 to 82) |
| <b>Shrinkage</b>                            | None                      |

### Test Data

| PROPERTY                                                               | RESULTS                               | TEST METHODS |
|------------------------------------------------------------------------|---------------------------------------|--------------|
| <b>Movement capability, %</b>                                          | ±35                                   | ASTM C 719   |
| <b>Tensile strength, psi (MPa)</b>                                     | 350 (2.4)                             | ASTM D 412   |
| <b>Tear strength, pli</b>                                              | 50                                    | ASTM D 1004  |
| <b>Ultimate elongation at break, %</b>                                 | 800                                   | ASTM D 412   |
| <b>Rheological, (sag in vertical displacement) at 120° F (49° C)</b>   | No sag                                | ASTM C 639   |
| <b>Extrudability, 3 seconds</b>                                        | Passes                                | ASTM C 603   |
| <b>Hardness, Shore A</b>                                               |                                       | ASTM C 661   |
| At standard conditions                                                 | 25 – 30                               |              |
| After heat aging (max Shore A: 50)                                     | 25                                    |              |
| <b>Weight loss, after heat aging, %</b>                                | 3                                     | ASTM C 792   |
| <b>Cracking and chalking, after heat aging</b>                         | None                                  | ASTM C 792   |
| <b>Tack-free time, hrs, (maximum 72 hrs)</b>                           | Passes                                | ASTM C 679   |
| <b>Stain and color change</b>                                          | Passes<br>(no visible stain)          | ASTM C 510   |
| <b>Bond durability,* on glass, aluminum, and concrete</b>              | Passes<br>±35% movement               | ASTM C 719   |
| <b>Adhesion* in peel, pli (min. 5 pli)</b>                             | 30                                    | ASTM C 794   |
| <b>Adhesion* in peel after UV radiation through glass (min. 5 pli)</b> | Passes                                | ASTM C 794   |
| <b>Artificial weathering, Xenon arc, 250 hours</b>                     | Passes                                | ASTM C 793   |
| <b>Artificial weathering, Xenon arc, 3,000 hours</b>                   | No surface cracking                   | ASTM G 26    |
| <b>Water immersion, 122° F (50° C)</b>                                 | Passes 10 weeks with movement cycling | ASTM C 1247  |

\*Primed for water immersion dictated by ASTM C 920. Concrete and aluminum primed with 733; glass primed with 766.

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

## Yield

### LINEAR FEET PER GALLON\*

| JOINT DEPTH<br>(INCHES) | JOINT WIDTH (INCHES) |     |     |     |     |     |    |
|-------------------------|----------------------|-----|-----|-----|-----|-----|----|
|                         | 1/4                  | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1  |
| 1/4                     | 308                  | 205 | 154 | 122 | –   | –   | –  |
| 3/8                     | –                    | –   | –   | 82  | 68  | 58  | 51 |
| 1/2                     | –                    | –   | –   | –   | 51  | 44  | 38 |

\*One gallon equals approximately 12 cartridges or 6 ProPaks

### METERS PER LITER

| JOINT DEPTH<br>(MM) | JOINT WIDTH (MM) |      |      |     |     |     |     |
|---------------------|------------------|------|------|-----|-----|-----|-----|
|                     | 6                | 10   | 13   | 16  | 19  | 22  | 25  |
| 6                   | 24.8             | 16.5 | 12.4 | 9.8 | –   | –   | –   |
| 10                  | –                | –    | –    | 6.6 | 5.5 | 4.7 | 4.1 |
| 13                  | –                | –    | –    | –   | 4.1 | 3.5 | 3.0 |

## How to Apply

### Joint Preparation

1. The number of joints and the joint width should be designed for a maximum of  $\pm 35\%$  movement.
2. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2" (13 mm) and the minimum is 1/4" (6 mm). Refer to Table 1.
3. In deep joints, the sealant depth must be controlled by Closed-Cell Backer-Rod or Soft Backer-Rod. Where the joint depth does not permit the use of backer-rod, a bondbreaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install backer-rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-Cell Backer-Rod should be about 1/8" (3 mm) larger in diameter than the width of the joint to allow for compression. Soft Backer-Rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bondbreaker is required. Do not prime or puncture the backer-rod.

TABLE 1

### Joint Width and Sealant Depth

| JOINT WIDTH,<br>AT MIDPOINT, IN (MM) | SEALANT DEPTH IN (MM) |
|--------------------------------------|-----------------------|
| 1/4 – 1/2 (6 – 13)                   | 1/4 (6)               |
| 1/2 – 3/4 (13 – 19)                  | 1/4 – 3/8 (6 – 10)    |
| 3/4 – 1 (19 – 25)                    | 3/8 – 1/2 (10 – 13)   |
| 1 – 1-1/2 (25 – 38)                  | 1/2 (13)              |

### Surface Preparation

Surfaces must be structurally sound, fully cured, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, and membrane materials.

#### CONCRETE, STONE, AND OTHER MASONRY

Clean by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.

#### WOOD

New and weathered wood must be clean and sound. Scrape away loose paint to bare wood.

Any coating that cannot be removed must be tested to verify adhesion of sealant or to determine an appropriate primer.

#### METAL

Remove scale, rust, and coatings from metal to expose a bright white surface. Remove protective coatings as well as any chemical residue or film. Aluminum window frames are frequently coated with a clear lacquer that must be removed before the application of NP 1™. Any coating that cannot be removed must be tested to verify adhesion of sealant or determine an appropriate primer. Remove any other protective coatings or finishes that could interfere with adhesion.

### Priming

1. NP 1™ is generally considered a nonpriming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to product data sheet on Primer 733 or 766, and consult Technical Services for additional information.
2. For immersion applications, Primer 733 must be used.
3. Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Porous surfaces require more primer; however, do not overapply.
4. Allow primer to dry before applying NP 1™. Depending on temperature and humidity, primer will be tack free in 15 – 120 minutes. Priming and sealing must be done on the same work day.

### Application

1. NP 1™ comes ready to use. Apply by professional caulking gun. Do not open cartridges, sausages, or pails until preparatory work has been completed.
2. Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint.
3. Dry tooling is recommended. DO NOT use soapy water when tooling. Tooling results in the correct bead shape, a neat joint, and maximum adhesion.
4. For roof tile applications apply a bead of Sonolastic® NP 1™ sufficient to make a bond between two tiles on the upper surface of the down slope tile. Install the upslope tile & press into the sealant bead to ensure good contact between the sealant and both tiles.

## Clean Up

1. Immediately after use, clean equipment with Reducer 990 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

## Curing Time

The cure of NP 1™ varies with temperature and humidity. The following times assume 75° F (24° C), 50% relative humidity, and a joint 1/2" width by 1/4" depth (13 by 6 mm).

Skins: overnight or within 24 hours

Functional: within 3 days

Full cure: approximately 1 week

Immersion service: 21 days

## For Best Performance

- Do not allow uncured NP 1™ to come into contact with alcohol-based materials or solvents.
- Do not apply polyurethane sealants in the vicinity of uncured silicone sealants or uncured Sonolastic® 150 or 150 Tint Base.
- NP 1™ should not come in contact with oil-based caulking, uncured silicone sealants, polysulfides, or fillers impregnated with oil, asphalt, or tar.
- Protect unopened containers from heat and direct sunshine.
- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- When NP 1™ is to be used in areas subject to continuous water immersion, cure for 21 days at 70° F (23° C) and 50% relative humidity. Allow longer cure times at lower temperatures and humidities. Always use Primer 733.
- Do not use in swimming pool or other submerged conditions where the sealant will be exposed to strong oxidizers. Avoid submerged conditions where water temperatures will exceed 120° F (50° C).
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.

- Substrates such as copper, stainless, and galvanized typically require the use of a primer; Primer 733 or 766 is acceptable. For Kynar 500 based coatings use Primer 733 only. An adhesion test is recommended for any other questionable substrate.
- UV exposure may cause white NP 1™ to discolor. This does not affect sealant performance, where maintaining a true white appearance is critical, use Ultra or Sonolastic® 150 sealants.
- NP 1™ can be applied below freezing temperatures only if substrates are completely dry, free of moisture, and clean. Contact Technical Service for more information.
- Lower temperatures and humidities will extend curing times.
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

## Health and Safety

NP 1™

### Warning

NP 1™ contains Stoddard solvent and crystalline quartz silica.

## Risks

May cause skin, eye or respiratory irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Ingestion may cause irritation. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage.

INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

## Precautions

Keep container closed. Use only with adequate ventilation. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

## First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or if breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

## Proposition 65

This product contains materials listed by the State of California as known to cause cancer, birth defects and other reproductive harm.

## VOC Content

NP 1™ contains 35g/L or 0.29 lbs/gal, less water and exempt solvents.

**For medical emergencies only,  
call ChemTrec (1-800-424-9300)**

## BASF Corporation Building Systems

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www.BuildingSystems.BASF.com

Customer Service 800-433-9517  
Technical Service 800-243-6739  
29.4



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# SPEED CRETE RED LINE

## RAPID-SETTING REPAIR MATERIAL

### DESCRIPTION

SPEED CRETE RED LINE is a rapid-setting, cement-based concrete and masonry repair mortar. SPEED CRETE RED LINE is a proprietary formulation of blended portland cements, finely processed selected aggregates, and specific chemical additives which undergoes a chemical "hyper hydration" and produces a stable, low permeability, cementitious matrix. SPEED CRETE RED LINE can be "shaved" for detailed repairs

### PRIMARY APPLICATIONS

- Interior and exterior
- Vertical, overhead and horizontal repairs
- Used at no slump consistency
- Outstanding repair material for concrete pipe, curbs, sidewalks, formed and precast concrete

### FEATURES/BENEFITS

- Initial set in 8 to 10 minutes
- Final set within 20 minutes
- Can be "shaved" to desired shape
- High strength
- Excellent durability
- Compatible with galvanic anodes

### TECHNICAL INFORMATION

#### Material Properties at 75°F (24°C)

#### Compressive Strength, psi (MPa) ASTM C 109

24 Hour.....2,550 (17.6)

7 Day.....4,700 (32.4)

28 Day.....5,900 (40.7)

#### Set Time, ASTM C 266

Initial.....8 - 20 Min

Final.....15 - 30 Min

#### Split Tensile Strength, psi (MPa) ASTM C 496

7 Day.....400 (2.8)

28 Day.....500 (3.4)

#### Flexural Strength, psi (MPa) ASTM C 348

7 Day.....700 (4.8)

28 Day.....918 (6.3)

#### Freeze Thaw Durability Factor ASTM C 666

300 Cycles.....96.75%

#### Shrinkage 50% RH ASTM C 157

28 Day.....-0.069%

#### Expansion 100% RH ASTM C 157

28 Day.....0.077%

#### Scaling Resistance ASTM C 672

50 Cycles.....0% loss

Volumetric Resistivity.....5,250 ohm/cm

### PACKAGING

SPEED CRETE RED LINE is packaged in 50 lb (22.7 kg) poly-lined bags, and 50 lb (22.7 kg) pails

### SHELF LIFE

1 year in original, unopened packaging

### COVERAGE

One 50 lb (22.7 kg) bag yields approximately 0.47 ft<sup>3</sup> (0.013 m<sup>3</sup>) when mixed with 5.5 qt (5.2 L) water.

### DIRECTIONS FOR USE

**Surface Preparation:** Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 6 - 8 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of SPEED CRETE RED LINE. Alternately, a Saturated Surface Dry (SSD) concrete surface



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An **RPM** Company





can be primed with a scrub coat of SPEED CRETE RED LINE. The repair must be made before the scrub coat dries out.

**Mixing:** SPEED CRETE RED LINE will require approximately 5 to 5.5 qt (4.7 to 5.2 L) of potable water per 50 lb (22.7 kg) bag to achieve the proper mix consistency. Pour the measured amount of water into a clean mixing container, then add the SPEED CRETE RED LINE, and thoroughly mix for no more than 60 seconds to a stiff, no slump, putty-like consistency. Mix small quantities of SPEED CRETE RED LINE in a clean pail with a hand trowel. Use a rotary mixer with rubber tip blades for mixing quantities up to 100 lbs. (45.4 kg). To fill patches 2" (5.1 cm) deep or greater, add clean, pre-dampened, 3/8" (0.96 cm) size pea gravel. **DO NOT USE LIMESTONE AGGREGATE.** The mix ratio must not exceed 40 lbs. (18 kg) of pea gravel to each 50 lb (22.7 kg) bag or pail of SPEED CRETE RED LINE. **Mixing procedure:** Start mixer, load water, load pea gravel, and then load the SPEED CRETE RED LINE. **MIX FOR NO MORE THAN 60 SECONDS.**

**Application:** To ensure a complete bond with the entire surface, force the SPEED CRETE RED LINE firmly into the SSD area by hand or with a trowel. Slightly overfill the repair, and following initial set, shave the material to conform to the contour of the surrounding surface. Always shave SPEED CRETE RED LINE toward the common bonding edge between the repair mortar and the existing surface. Cure material using standard curing practices.

**Cold Weather Installation:** Application at temperatures below 40°F(4°C) extends the set time. Heating the repair area until warm, using warm water for mixing and tenting or insulating the repair area after application will assist in reaching greater strength development. Do not use direct heat on the repair after its installation.

## CLEAN-UP

Clean application tools and mixing equipment with water immediately following use.

## PRECAUTIONS/LIMITATIONS

- Keep in covered storage away from all moisture.
- Mix no more than 60 seconds.
- Use only potable water with SPEED CRETE RED LINE.
- Mix to a stiff, putty-like, no slump consistency.
- Do not retemper or add sand to SPEED CRETE RED LINE.
- Do not overwork or overtrowel patching material.
- Do not featheredge SPEED CRETE RED LINE on horizontal surfaces.
- In all cases, consult the Material Safety Data Sheet before use.

Rev. 06.11

**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives in writing or orally shall alter this warranty. **EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the alleged breach. Euclid does not authorize anyone or its retail to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.



## Marflex 5000™

### Below-grade Exterior Foundation Waterproofing Membranes The ultimate waterproofing protection for your residential walls

Marflex 5000 Waterproofing Membranes are tested and proven membranes that can be applied over almost any clean, dry, sound substrate. Their permanent elasticity allows for movement with the structure. Marflex 5000 membranes will not become brittle, evaporate, or lose their flexibility or waterproofing abilities. They resist freeze-thaw cycles and testing shows that Marflex 5000 membranes outlast conventional protection methods. Marflex 5000 is available in both solvent-based and water-based<sup>1</sup>.

#### Uses

Marflex 5000 membranes are recommended for new construction waterproofing of all below-grade basement walls of poured concrete<sup>2</sup> or unit masonry construction<sup>3</sup>. Marflex 5000 membranes can be used as a spray only or as part of a waterproofing system.

#### Code Compliance

ICC Evaluation Service, Inc. (ICC-ES), has issued evaluation report NER-658 on the Marflex 5000 Waterproofing Membrane. ICC-ES finds that, subject to the conditions set forth in NER-658, the membrane complies with the 2000 *International Building Code*, or is a suitable alternative to what is specified in the code.

#### Two System Components

Marflex allows you to customize your waterproofing system by matching the right coating to the right board.

For drainage plus R-value:

Drain & Dry, QuickSilver or the ShockWave 1 or 2

For more drainage flow with no R-value:

Geo-Mat™ Plus

#### Limited Residential Warranty<sup>4 5 6</sup>

When you build using Marflex 5000 you receive one of the best warranties in the industry.

Choose from the Standard, Bronze, Silver or Gold levels below. Anyway you go Marflex backs every level with the best warranty in the business.

| LEVEL           | MEMBRANE combined with BOARD gives you WARRANTY |                                               |          |
|-----------------|-------------------------------------------------|-----------------------------------------------|----------|
| <b>Standard</b> | Marflex 5000                                    | None                                          | 15 Years |
| <b>Bronze</b>   | Marflex 5000                                    | Geo-Mat Plus<br>Drain & Dry<br>¾" QuickSilver | 40 Years |
| <b>Silver</b>   | Marflex 5000                                    | 1" Shockwave<br>1-3/8" QuickSilver            | 50 Years |
| <b>Gold</b>     | Marflex 5000                                    | 2" Shockwave<br>2-¾" QuickSilver              | 60 Years |

#### PRODUCT DATA

## Division 7

07140 Fluid Applied Waterproofing

<sup>1</sup> See Water-Based Installation Instructions

<sup>2</sup> See Poured Wall Installation Instructions

<sup>3</sup> See Unit Masonry Installation Instructions

<sup>4</sup> New Construction Only

<sup>5</sup> See Applicator For Availability

<sup>6</sup> For Poured Walls Only



## Marflex 5000™

**Below-grade Exterior Foundation Waterproofing Membranes**  
*The ultimate waterproofing protection for your residential walls*

### Marflex 5000 Membrane Properties<sup>7</sup>

|                                            | Solvent-Based                       | Water-Based                         |
|--------------------------------------------|-------------------------------------|-------------------------------------|
| Color                                      | Black                               | Black                               |
| Total Solids                               | 70-75%                              | 60-70%                              |
| Density                                    | 7.6 lbs.                            | 7.6 lbs.                            |
| Shelf Life                                 | -                                   | 6 months                            |
| Application Method                         | Spray                               | Spray                               |
| Application Temp (Ambient)                 | 0° to 150°F                         | 0° to 130°F                         |
| Film Thickness                             | 60 mil (dry)                        | 60 mil (dry)                        |
| Total Cure Time                            | 24 hrs.                             | 24 hrs.                             |
| Adhesion to Concrete                       | No Adhesion Loss                    | No Adhesion Loss                    |
| Elongation @ 70° F                         | 1725%                               | 1725%                               |
| Low Temp Flexibility                       | -15°F                               | -15°F                               |
| Crack Bridging Ability                     | 10 cycles without bond failure      | 10 cycles without bond failure      |
| Water Vapor Permeance (40 mil dry coating) | 0.12 perm (grains/sq.ft./h)         | 0.12 perm (grains/sq.ft./h)         |
| Liquid Water Absorption                    | No Absorption                       | No Absorption                       |
| Mold Growth/Bacterial Attack               | No Degradation                      | No Degradation                      |
| Resistance to Hydrostatic Pressure Head    | No Water Infiltration               | No Water Infiltration               |
| Coverage Rate                              | 3.2 – 4.0 gal./100 ft. <sup>2</sup> | 3.3 – 5.0 gal./100 ft. <sup>2</sup> |
| Tensile Strength                           | 48 p.s.i. min.                      | 48 p.s.i. min.                      |

#### PRODUCT DATA

## Division 7

07140 Fluid Applied Waterproofing

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE MATERIAL SAFETY DATA SHEET AVAILABLE FOR THIS PRODUCT. THE MATERIAL SAFETY DATA SHEET SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

#### Manufactured By:

Marflex Building Solutions  
6866 Chrisman Lane, Middletown, OH 45042  
(800) 498-1411 | (513) 422-7285 | Fax – (513) 422-7282  
E-mail: [technicalsupport@mar-flex.com](mailto:technicalsupport@mar-flex.com)  
Web-site: [www.MarflexBuildingSolutions.com](http://www.MarflexBuildingSolutions.com)

Rev. 07-09.1

<sup>7</sup> ASTM Methods Available Upon Request



111.08

H&C®

# CONCRETE STAIN SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

| PRODUCT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SURFACE PREPARATION |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p><b>H&amp;C® Concrete Stain Water Based</b> provides superior protection and beauty for both exterior and interior concrete. Fortified with silicone it is ideal for pool decks, patios, walkways, block and stucco walls, basements and laundry rooms. It may be applied to bare concrete or previously painted surfaces. <b>H&amp;C® Concrete Stain Water Based</b> is highly resistant to pool chemicals. For best results on garage floors use <b>H&amp;C® Shield-Crete Garage Floor Epoxy</b>.</p>                                                                                                                                                                                                                                                                                                                                                              | <p><b>Color:</b><br/>8 ready mixed colors, 3 tintable bases for a variety of custom colors and clear for added durability.</p> <p><b>Coverage</b></p> <table border="0"> <tr> <td></td> <td style="text-align: right;"><b>sq ft/gal</b></td> </tr> <tr> <td>Concrete floors</td> <td style="text-align: right;">200-300</td> </tr> <tr> <td>Porous concrete</td> <td style="text-align: right;">150-250</td> </tr> <tr> <td>Asphalt</td> <td style="text-align: right;">200-250</td> </tr> <tr> <td>Concrete block</td> <td style="text-align: right;">100-150</td> </tr> <tr> <td>Split faced block</td> <td style="text-align: right;">75-125</td> </tr> <tr> <td>Fluted block</td> <td style="text-align: right;">50-100</td> </tr> <tr> <td>Brick (clay)</td> <td style="text-align: right;">100-150</td> </tr> </table> <p><b>Drying Time, @ 77°F, 50% RH:</b><br/>temperature and humidity dependent<br/>To touch: 30 minutes<br/>Light traffic and recoat: 2 hours<br/>Heavy traffic: 72-96 hours<br/>Full Cure should be reached in 7-14 days<br/><i>*NOTE: High humidity and /or low temperatures will affect drying time.</i></p> <p><b>Flash Point:</b> N/A</p> <p><b>Vehicle Type:</b> 100% Acrylic<br/><b>White 20.00121-</b></p> <p><b>VOC (less exempt solvents):</b><br/>224 g/L; 1.87 lb/gal*</p> <p><b>Pigmented Sheen:</b> Low Luster &lt; 35<br/><b>Volume Solids:</b> 30 ± 2%*<br/><b>Weight Solids:</b> 43 ± 2%*<br/><b>Weight per Gallon:</b> 10.0 lb*<br/><i>*May vary by color</i></p> <p><b>Clear 20.00120-</b></p> <p><b>VOC (less exempt solvents):</b><br/>246g/l; 2.05lb/gal</p> <p><b>Clear Sheen:</b> Low Luster &lt; 35<br/><b>Volume Solids</b> 19%<br/><b>Weight Solids</b> 22%</p> <p><b>Static Coefficient of Friction:</b> .9</p> <p><b>Water Vapor Transmission</b><br/>ASTM D1653 5.21 ± 0.12 grains/(hr ft²)<br/><b>Perm Rating</b><br/>ASTM D1653 11.2 ± 3 grains/(hr ft² in Hg)</p> |                     | <b>sq ft/gal</b> | Concrete floors | 200-300 | Porous concrete | 150-250 | Asphalt | 200-250 | Concrete block | 100-150 | Split faced block | 75-125 | Fluted block | 50-100 | Brick (clay) | 100-150 | <p><b>WARNING!</b> Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.</p> <p><b>Bare Concrete:</b> Newly poured concrete must be at least 28 days old. All concrete must be porous, clean, dry and free of grease, oil &amp; any other contaminates. To spot clean, use <b>H&amp;C® Cleaner Degreaser</b> following label directions. If mold, mildew or fungus is present, kill and remove with a solution of one-cup household bleach to one gallon of water. All horizontal concrete surfaces <b>MUST</b> be etched with <b>H&amp;C® Etching Solution</b> or muriatic acid, following label directions. After proper etching the surface should have the feel of 120-grit sandpaper, if not then a second etching is required. Vertical concrete surfaces should absorb water. Test various sections by spraying water directly onto the surface to be stained. If the water does not absorb rapidly, then the surface should be acid etched using the <b>H&amp;C® Etching Solution</b> following label instructions or mechanically abraded. <b>Do not</b> apply the stain until all surfaces are porous. Allow all surfaces to dry 24 hours before staining. Prepared concrete must have a pH level between 6 and 10.</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>sq ft/gal</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concrete floors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Porous concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 150-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 200-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concrete block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100-150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Split faced block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 75-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Fluted block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50-100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Brick (clay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100-150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Protects and beautifies interior and exterior surfaces</li> <li>• Use on concrete, masonry, and asphalt</li> <li>• Will not peel, flake, or fade</li> <li>• Resists oil, gasoline, water, and UV rays</li> <li>• Makes the surface easier to clean</li> <li>• Soap &amp; water clean up</li> <li>• Ideal for high pH surfaces</li> </ul> <p><b>Recommended Uses:</b></p> <ul style="list-style-type: none"> <li>• Pool Decks</li> <li>• Stadium Supports</li> <li>• Bridges and Bridge Structures</li> <li>• Parking Garages</li> <li>• Athletic Courts</li> <li>• Asphalt Driveways</li> <li>• Block &amp; Stucco Walls</li> <li>• Patios and Walkways</li> <li>• Basement Floors</li> <li>• CMU, Split Face, and Fluted Block</li> <li>• Precast, Poured-in-place, and Tilt-up Concrete.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>For a complete color/seal system on porous substrates, apply 2 coats of <b>H&amp;C® Concrete Stain Water Based</b> and a flood coat of <b>H&amp;C Super V™ Water Repellant</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                  |                 |         |                 |         |         |         |                |         |                   |        |              |        |              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



**H&C®**

# CONCRETE STAIN SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

## SURFACE PREPARATION

**Garage Floors:** For best results use H&C® Shield-Crete Garage Floor Epoxy

**Driveways:** Proper surface preparation is crucial when using this product on garage floors and driveways. For best results us H&C® Concrete Sealer Solvent Based.

**Asphalt:** Asphalt surfaces must be free of grease, oil, dirt, wax, etc. Scrub with a solvent free cleaner following label directions. DO NOT ETCH ASPHALT. Not recommended if asphalt has been freshly sealed.

**Previously Painted:** All old, peeling, flaking paint must be removed. Areas with firm adhesion must be clean and free of dirt, oil, grease, etc. Clean with H&C® Cleaner Degreaser, following label directions. Rinse thoroughly and allow to dry. Remaining paint should be rough sanded in a circular motion to ensure adhesion of H&C® Concrete Stain. Rinse away sanding dust. DO NOT ETCH PREVIOUSLY PAINTED SURFACES.

**Repair:** For the best waterproofing protection on vertical and horizontal concrete and masonry surfaces, patch and repair cracks with H&C® Quick Patch and Repair. Patching compounds will generally be visible through clear coatings.

## APPLICATION

**When to Apply:** H&C® Concrete Stain Water Based should be applied on to a dry surface where moisture content should not exceed 3lbs/1000 sq. ft. of surface (ASTM F710). Air, surface and material temperature must be between 50° and 90°F and at least 5°F above the dew point during and for 24 hours after application. Do not apply H&C® Concrete Stain Water Based if rain is expected in 12 hours following the application. Stir stain thoroughly before and during application. A minimum two coats is required. Apply with brush, roller or spray. When using more than one container, intermix all containers together to ensure color uniformity. Prior to applying your first coat, dry-sweep the concrete with a stiff broom or shop vacuum to remove all surface latent.

**First Coat:** Apply first coat evenly, working in one direction. Allow to dry at least 2 hours before applying second coat.

**Second Coat:** Apply second coat crosswise to the first coat. Two coats of H&C® Concrete Stain Water Based are usually sufficient. However, extremely porous surfaces may require a third coat for a uniform appearance. If more than two coats are applied on a horizontal surface, consider using H&C® SharkGrip Slip-Resistant Additive. Allow 2 hours dry time between coats. Allow 72 to 96 hours drying conditions before using the surface for heavy traffic.

## APPLICATION

**Brush**—Use a nylon/polyester brush  
**Roller**—Use a 3/8" woven nap cover  
**Spray—Airless**  
 Pressure ..... 1500 psi  
 Tip ..... .013" - .017"  
**Spray—Conventional**  
 Air Pressure ..... 30 - 50 psi  
 Fluid pressure ..... 15 - 20 psi  
 Cap/Tip ..... 704/FX or equivalent  
**HVLP**  
 Cap/Needle .... Titan #3 or equivalent  
 Backrolling recommended after spraying

**Slip Resistance:** Some surfaces may require a slip-resistant additive for safety. Add H&C® SharkGrip Slip Resistant Additive to the final coat, following label directions. H&C® SharkGrip Slip Resistant Additive should not be used in place of a non-skid finish.

## CLEANUP INFORMATION

Clean spills and spatters immediately with soap and warm water.

## TECHNICAL SERVICES

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of H&C concrete coatings and The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your H&C or Sherwin-Williams representative to obtain the most recent Product Data sheet.



**H&C®**

# CONCRETE STAIN

## SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

| <u>ORDERING INFORMATION</u>                                                | <u>PERFORMANCE DATA</u>                                                                                                                                                                                | <u>PERFORMANCE DATA</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clear</b><br>Gallon 20.001204/163-2702<br>Five 20.001205/163-2710       | <b>Accelerated Weathering</b><br><b>ASTM G154</b> 3000 hrs, no effect<br><b>Color Change:</b> Delta E = 0.35                                                                                           | <b>Scrub Resistance Testing</b><br>1200 cycles, no failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Extra White</b><br>Gallon 20.001214/163-1753<br>Five 20.001215/163-1746 | <b>Color &amp; Gloss Retention</b><br><b>ASTM G90</b><br><b>Color:</b> Less than .30 Change<br><b>Sheen:</b> .5 difference @ 60°                                                                       | <b>Adhesion Testing</b> <b>ASTM 3359</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Deep Base</b><br>Gallon 20.002214/163-1738<br>Five 20.002215/163-1720   | <b>Chloride Ion Penetration</b><br><b>AASHTO T 259/T 260</b><br>Reduction of 54 % @ 0.0625"-0.5" penetration,<br>83 % @ 0.5"-1.0" penetration, and 36 %<br>@1.0"-1.5" penetration                      | <b>Method A X-Cut Tape Test</b><br>Results: No film loss<br>Classification 5A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Ultra Deep</b><br>Gallon 20.003214/163-1712<br>Five 20.003215/163-1704  | <b>Resistance to Wind Driven Rain</b><br><b>Rilem Tube Method #11.4</b><br>Zero water Penetration over 60 minutes exposure                                                                             | <b>Method B Cross-Cut Tape Test</b><br>Results: Less than 5% removed<br>Classification: 4B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bombay</b><br>Gallon 20.001254/163-1787<br>Five 20.001255/163-1795      | <b>Resistance to Salt Spray</b><br><b>ASTM B117</b><br>No film defect after 500hrs exposure                                                                                                            | <b>Abrasion Resistance ASTM D968</b><br><b>Results:</b> >2000 Liters of Sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Sandstone</b><br>Gallon 20.001324/163-1852<br>Five 20.001325/163-1845   | <b>Resistant to Sulfide Staining</b><br><b>ASTM D1712</b><br>No change after 15mins                                                                                                                    | <b>CAUTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tile Red</b><br>Gallon 20.001364/163-1902<br>Five 20.001365/163-1910    | <b>Chemical Resistance</b><br><b>10% Sodium Hydroxide</b><br>No softening or color change                                                                                                              | Do not use on wood surfaces.<br>Non-photochemically reactive.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Terra Cotta</b><br>Gallon 20.001354/163-1886<br>Five 20.001255/163-1894 | <b>10% Ammonium Hydroxide</b><br>No softening or color change                                                                                                                                          | Label Caution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pearl Gray</b><br>Gallon 20.001314/163-1837<br>Five 20.001314/163-1829  | <b>Mineral Spirits KB value 38</b><br>No softening or color change                                                                                                                                     | <b>CAUTION</b> contains CRYSTALLINE SILICA. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. <b>FIRST AID:</b> In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. <b>DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.</b> Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. <b>WARNING:</b> This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. <b>DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.</b><br>LCE 12/02/2002 20.001214 01 00 |
| <b>Gull Gray</b><br>Gallon 20.001284/163-1803<br>Five 20.001285/163-1811   | <b>Reflectance of White (20.00121-)</b><br>86% +/-3%<br><br><b>Impact Resistance</b><br><b>Fed Std 141A Method 2051 ASTM D 2794</b><br>6 inch-pounds direct impact<br><b>Results:</b> No film chipping |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Silver Gray</b><br>Gallon 20.001344/163-1878<br>Five 20.001345/163-1860 | <b>Flexibility ASTM D522 Method B</b><br>1-inch diameter mandrel<br><b>Results:</b> No cracking, breaking, etc                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



# SUPER SPEC HP<sup>®</sup> D.T.M. ACRYLIC LOW LUSTRE P25

## Features

- For interior or exterior use
- Self priming
- Soap and water cleanup
- Excellent gloss & color retention
- Low odor
- Fast dry

## General Description

This product is designed to perform a dual purpose as a direct to metal primer and finish. Both coats of the product provide rust inhibition for superior corrosion control. The acrylic formula provides excellent gloss and color retention. The film is fast drying permitting fast recoat. This product is also an excellent finish for masonry, plaster, wallboard and interior wood surfaces.

## Recommended For

Application to interior or exterior steel, aluminum, galvanized metal, masonry, plaster and drywall surfaces. May also be used on interior and incidental exterior wood surfaces. Performs well on doors, trim, walls, ceilings, structural steel, storage tanks and equipment.

## Limitations

- Do not apply when air and surface temperatures are below 50°F (10°C).
- Not for floor applications.
- Not for exposure to strong chemicals.

## Product Information

### Colors — Standard:

White, Black, and Bronzestone

### — Tint Bases:

Benjamin Moore<sup>®</sup> Color Preview<sup>®</sup> bases 1B, 2B, 3B & 4B

### — Special Colors:

Contact your Benjamin Moore representative.

### Certification

VOC Compliant in all regulated areas except the South Coast and areas of California that follow the 2007 Suggested Control Measures.

Master Painters Institute MPI #107, 134

Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84

**Qualifies for**  
**LEED<sup>®</sup>**  
**(ANTI-CORROSIVE)**  
Credit when used  
on Metal Substrates

### Technical Data<sup>Ⓞ</sup>

### Pastel Base

Vehicle Type 100% Acrylic Latex

Pigment Type Titanium Dioxide

Volume Solids 41.5%

Coverage per Gallon at Recommended Film Thickness 320 Sq. Ft.

Recommended Film Thickness — Wet 5.0 mils  
— Dry 2.0 mils

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

Dry Time @ 77°F — To Touch 1 Hour  
(25°C) @ 50% RH — To Recoat 4 Hours

Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times.

Dries By Evaporation, Coalescence

Viscosity 91 ± 4 KU

Dry Heat Resistance 250°F

Flash Point None

Gloss / Sheen Low Lustre (35-45 @ 60°)

Surface Temperature — Min. 50°F  
at Application — Max 90°F

Thin With Clean Water

Clean Up Thinner Clean Water

Weight Per Gallon 10.2 lbs

Storage Temperature — Min. 40°F  
— Max 90°F

### Volatile Organic Compounds (VOC)

148 Grams / Liter 1.24 LBS / Gallon

### Technical Assistance:

Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-800-826-2623, see [www.benjaminmoore.com](http://www.benjaminmoore.com), or consult your local Yellow Pages

<sup>Ⓞ</sup> Reported values are for Pastel Base. Contact Benjamin Moore for values of other bases or colors.

## Super Spec HP® D.T.M. Acrylic Low Lustre P25

### Surface Preparation

Surfaces to be coated must be clean, dry, and free of oil, grease, dust, flaky rust, mill scale, loose paint, chalk, and other foreign matter than could interfere with adhesion. Glossy surfaces should be dulled by abrading the surface.

**Metal:** Remove loose rust and scale with a scraper, wire brush, or sandpaper. Remove oils from bare metal with Benjamin Moore® Oil & Grease Emulsifier (P83).

**Mildew:** Stains from mildew must be removed by cleaning with Benjamin Moore® Clean (318) prior to coating the surface. **Caution:** Refer to the (318) Clean technical data and material safety data sheets for instructions on its proper use and handling.

**Difficult Substrates:** Benjamin Moore offers a number of specialty primers for use over difficult substrates such as bleeding woods, grease stains, crayon markings, hard glossy surfaces, galvanized metal, or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore retailer can recommend the right problem solving primer for your special needs.

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead)

### Primer/Finish Systems

Super Spec HP® D.T.M. Acrylic Low Lustre is self-priming on properly prepared ferrous and non-ferrous metal substrates. New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary.

#### Ferrous Metal:

**Finish:** 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

**Non-Ferrous Metal (Galvanized & Aluminum)** All new metal surfaces must be thoroughly cleaned with Super Spec HP® Oil & Grease Emulsifier (P83) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion

**Finish:** 1 or 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

#### Masonry, Smooth Poured or Precast Concrete:

**Primer:** Super Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (N/066) or Fresh Start® All-Purpose 100% Acrylic Primer (N023)

**Finish:** 1 or 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

#### Masonry, Rough or Pitted:

**Primer:** Super Spec® Latex Block Filler (160) or Super Spec® Masonry Interior/Exterior Hi-Build Block Filler (206)

**Finish:** 1 or 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

**Plaster or Wallboard:** All plaster surfaces must be thoroughly cured for at least 30 days. Drywall surfaces must be free of sanding dust.

**Primer:** Fresh Start® All-Purpose 100% Acrylic Primer (N023)

**Finish:** 1 or 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

#### Wood and engineered wood products:

**Primer:** Fresh Start® All-Purpose 100% Acrylic Primer (N023) or All-Purpose Alkyd Primer (024)

**Finish:** 1 or 2 coats Super Spec HP® D.T.M. Acrylic Low Lustre (P25)

**Repaint, All Substrates:** Prime bare areas with the primer recommended for the substrate above.

### Application

**Mixing of Paint:** Stir thoroughly before and occasionally during use. For best application results, apply generously going from unpainted into painted areas. A one-coat application protects and preserves; two coats provides greater durability. Apply with an all-purpose synthetic brush, short nap roller, or spray.

**Spray, Airless:** Fluid Pressure — 1,500 to 2,500 PSI;  
Tip — 0.13 - .017 Orifice

### Thinning/Cleanup

Thinning is unnecessary, but if required to obtain desired application properties, a small amount of clean water may be added. Never add other paints or solvents. Wash painting tools in warm soapy water immediately after use. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

**USE COMPLETELY OR DISPOSE OF PROPERLY.** Dry, empty containers may be recycled in a can recycling program. **Local disposal requirements vary, consult your sanitation department or state-designated environmental agency on disposal options.**

### Environmental, Health & Safety Information

**Use only with adequate ventilation.** Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.

**WARNING:** This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

**FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**IN CASE OF SPILL –** Absorb with inert material and dispose of as specified under "Clean Up".

**KEEP OUT OF REACH OF CHILDREN  
PROTECT FROM FREEZING**

**Refer to Material Safety Data Sheet for  
additional health and safety information.**





4033 123RD STREET  
 CHIPPEWA FALLS WI 54729  
 715-723-7446

# Quote

Order# : 8160

Date: 01/11/2023

**Billed To:** GREEN LAKE COUNTY PARKS & RECREATION  
 571 COUNTY ROAD A  
 GREEN LAKE WI 54941

**Project:** TEAL VAULT TOILET

This quote is valid for 30 days

Purchase Order#:

| Description        | Quantity | Price       | Ext Price   |
|--------------------|----------|-------------|-------------|
| TEAL VAULT TOILET  | 1.00     | \$15,435.00 | \$15,435.00 |
| Delivery & Setting | 1.00     | \$3,600.00  | \$3,600.00  |

|                    |                  |
|--------------------|------------------|
| Taxable Amount:    | 19,035.00        |
| Sales Tax:         | 0.00             |
| <b>Quote Total</b> | <b>19,035.00</b> |

**Taxes:**

All applicable Federal, State and local taxes will be added to these prices.

**Bid and Performance Bonds:**

this quote does not include any bid or performance bonds. If either are required they will be added to the quote.

**Professional Services/Certifications:**

Architectural, structural or MEP calculations and/or stamps are not included unless specified on this quote. This quote also does not include any state manufacturer certifications/insignias. Please call for a quote if needed.

**Payment Terms:**

30% down payment at time of order. 30% payment at time of shipping. Balance net 30 days after invoice at time of shipment. Interest at 1.5% per month after 30 days from date of invoice unless prior arrangements have been made. Under no circumstances can retainage be held by customer.

**Quotation Term:**

This offer is good for 30 days from date of this quotation. Prices subject to change without notice after 30 days.

**Storage:**

If delivery is delayed more than 30 days after product is ready to ship, an invoice will be submitted for payment and subject to the terms above. After 60 days of storage a fee may be assessed at a rate of 1% of the total invoice per month until delivery.

**Responsibilities of the Owner/General Contractor:**

All excavation, elevations and permits will be the responsibility of the contractor or purchasing party.

Contractor is responsible for providing clear access for the crane and semis under their own power. These vehicles can weigh in excess of 100,000#. Clear access requires sufficient turning and maneuvering radius, suitable soil or provided alternatives to support these vehicles under their own power and free of overhead obstacles (including power lines). Additional charges may be assessed if reasonable means are not provided.

Working radius of the crane will be 35' or less with the semi sitting next to the crane. Additional charges will apply if a larger working radius is required. Crane rental may be provided by others.

Owner/General Contractor are responsible for providing a suitable foundation for the building. We can provide you with the weight of the building. Frost walls or grade beam are acceptable but you will need to determine your soil conditions and State/Local building codes.

It is the responsibility of the owner/contractor to comply with any building codes, permits and special requirements. Huffcutt Concrete, LLC can incorporate any special requirements into your building as said owner/general contractor informs Huffcutt Concrete, LLC prior to building being manufactured. Some special requirements may incur an additional charge.

Owner/General Contractor will be responsible for roughing in the plumbing supply lines, waste line, electrical, floor drains and plumbing vent lines. Huffcutt Concrete, LLC will provide you with a mechanical rough in drawing.

During the installation the contractor or owner will provide site personnel who are knowledgeable, has the authority to make decisions and resources available to make changes if necessary. Prior to setting of the building, Huffcutt Concrete, LLC will verify the foundation to be level within 1/4" and mechanical rough in locations are accurate. After the building is set Huffcutt Concrete, LLC will perform the final caulking, ridge cap, paint touch up and shipping and handling adjustments and repair. Owner/General Contractor will be responsible for the final onsite mechanical connections in the building. These include, but not limited to water supply line, waste lines, plumbing vent lines, electrical connection to the service panel and any tightening of fittings that may have loosened during shipping and handling.

**GREEN LAKE COUNTY**  
**PARKS AND RECREATION PLAN**

**REVISED BY:**

**PARKS COMMISSION**  
**GREEN LAKE COUNTY**

December 2019

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## INTRODUCTION

Green Lake County is a rural county with an abundance of natural areas. The county recognized in 1969 when it prepared its first outdoor recreation plan, that although it didn't have the tensions and stressors of a big-city life, the benefits from planning for public recreation and open space areas were still important.

Public recreation areas in rural counties can increase a sense of community and shared experience just as in urban areas. The diversity of recreational desires in sparsely populated areas is just as great as in denser urban areas. An outdoor recreation plan for rural counties, then, becomes critical in determining how a county with a smaller population, fewer financial resources and greater distance barriers to recreational areas can best accommodate the recreational needs of its residents. Decisions have to be made determining the scale, number, and location of facilities.

This plan will inventory what is available for outdoor recreational activities within Green Lake County, and from this information, to project and recommend what is still needed. It is a review and update of the plan done in 2009 and 2014.

Outdoor recreational facilities and resources provide a wide range of activities, including hunting, fishing, hiking, cycling, athletic events, camping, boating, swimming, picnicking, and ice fishing. With more leisure time and more people, the interest and needs of outdoor recreation become increasingly important. The primary purpose would be to recommend and eventually implement a program of acquisition and development that will fulfill the needs of the present, as well as the future. It is necessary to consider the needs of the tourist and the local citizens.

Duplication of facilities provided by state, municipal, and school systems should be avoided. A coordinated county-wide recreation plan is needed. Recommendations must be flexible enough to permit variation and to fit local conditions and opportunities.

The primary purpose of this plan is to recommend a sound program of land acquisition and park development that will fulfill local demands and needs. Within this recommended broad framework, the county and local municipalities can continue to proceed in an orderly manner in this parks and recreation program, knowing that all recommendations are flexible enough to permit variations accorded by local opportunities and conditions.

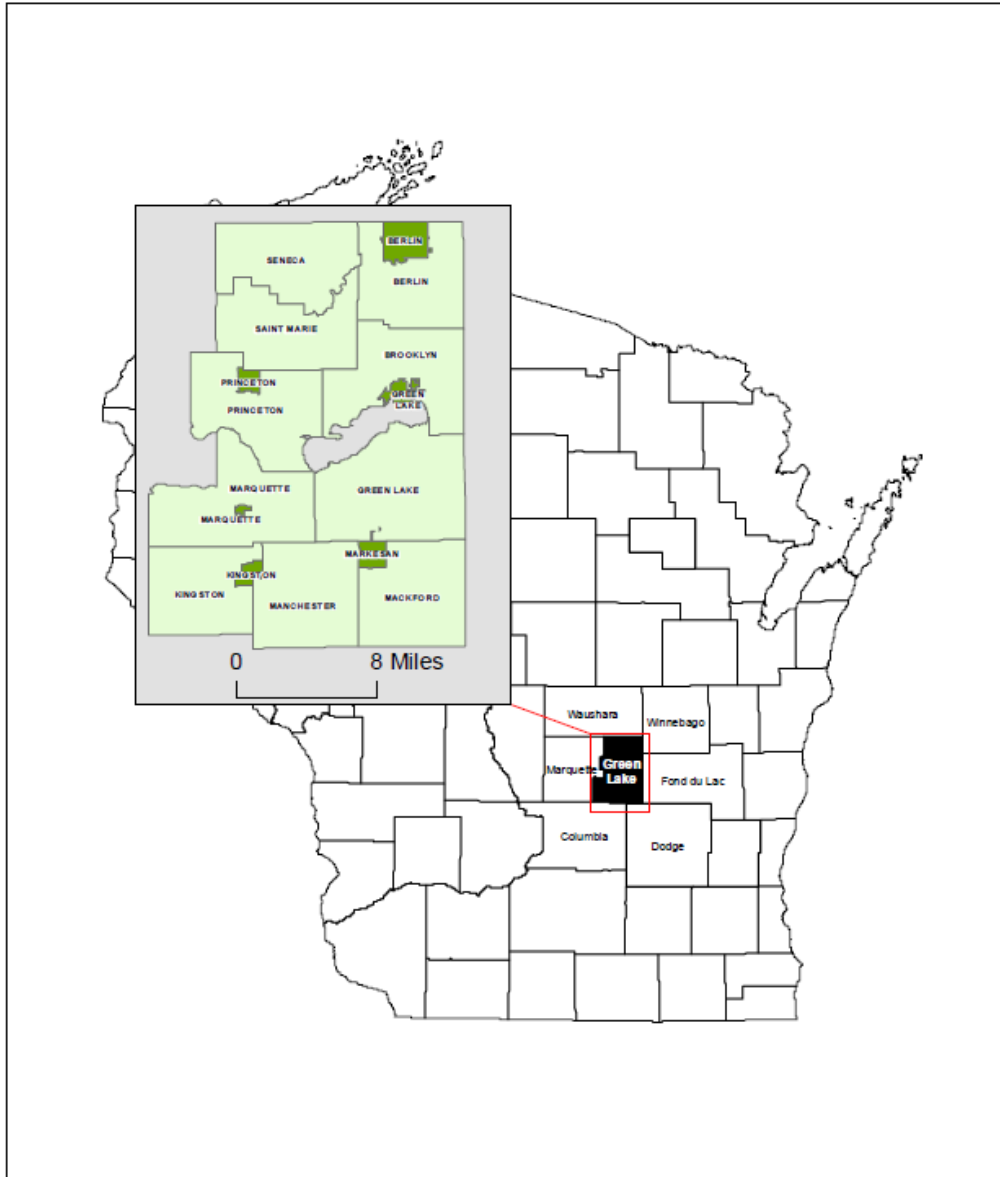
The plan is devoted to an inventory of outdoors recreation opportunities, available land, present and future needs, and recommendations to meet those needs. This plan shall be updated every five years and shall be submitted to the County Board for final approval. The plan addresses the needs of county parks from 2020-2025.

Specialized and other privately owned facilities are not included in this report, however they are listed as private enterprises.

Golf courses, greenways, historic sites, conservancy areas, and floodplains are examples of specialized recreation areas. Most of these have limited active recreation value, are either undeveloped for recreation, or are not always available for use by the public. These areas are not considered in the evaluations made for this section of the plan except in those instances where a potential for park development is identified. However, it must be realized that specialized areas are an important adjunct to a community and its park program.

### **GREEN LAKE COUNTY**

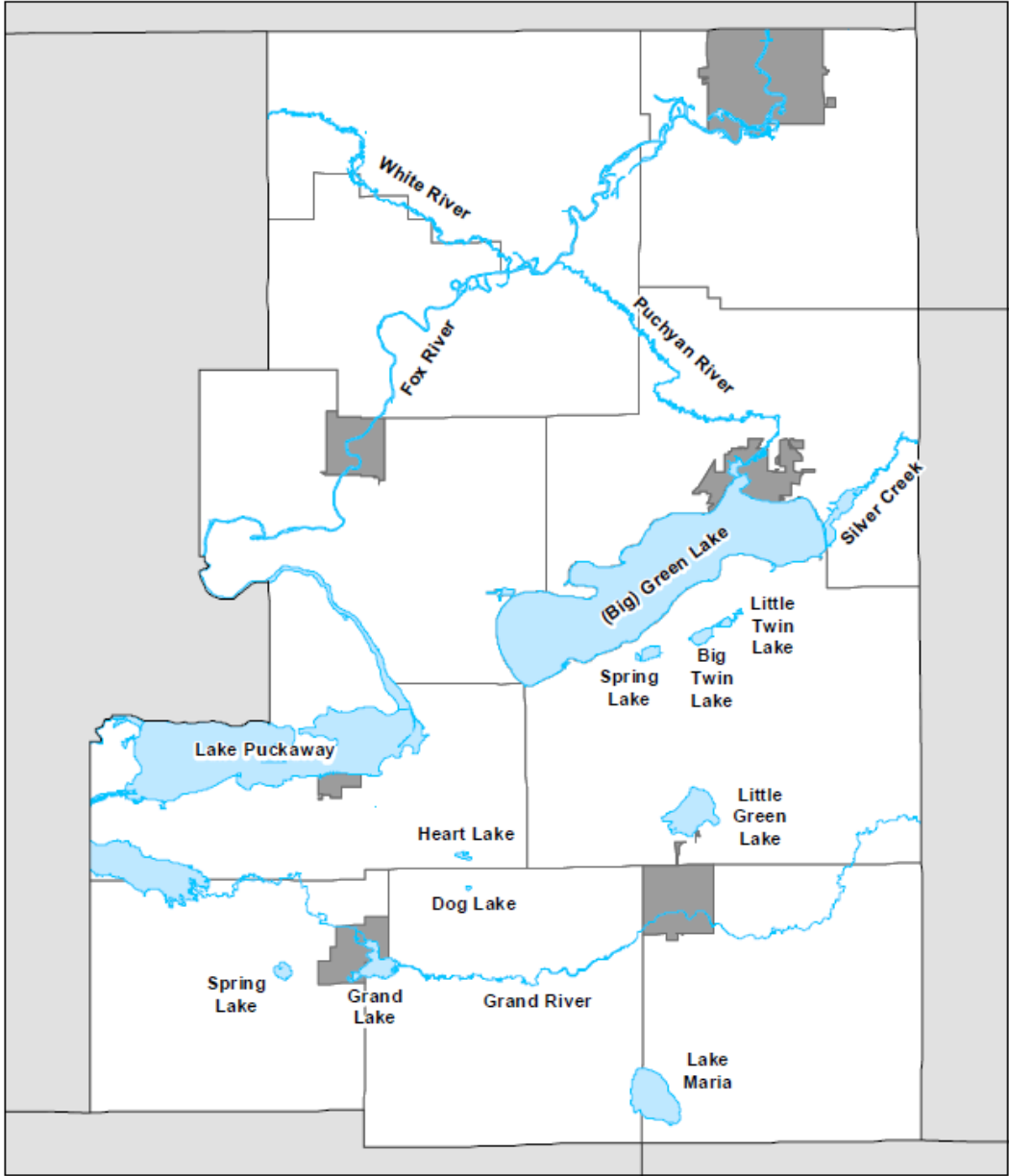
Green Lake County was established in 1858, and is located in the central part of Wisconsin. It is bordered by Waushara County to the North, Winnebago and Fond du Lac Counties to the East, Dodge and Columbia Counties to the South and Marquette County to the West. The Wisconsin Counties, Map 1, displays the location of Green Lake County within the state. The County has a land area of 226,739 acres, or approximately 349 square miles. Surface waters cover 17,120 acres, or about 8 percent of the county. Total land occupied by farms is 154,595 acres of which 119,913 acres are under crop production.



**Map 1: Green Lake County within the State of Wisconsin**

There are 36 lakes located in Green Lake County, 12 of which are named and 24 are unnamed. There are also 217.9 miles of streams and rivers. The primary rivers in the county are the White, the Puckyan, the Grand and the Fox (Map 2). All of the lands within Green Lake County drain to the Fox River, except for the extreme south-east corner of the county which drains into the Rock River (Map 3).

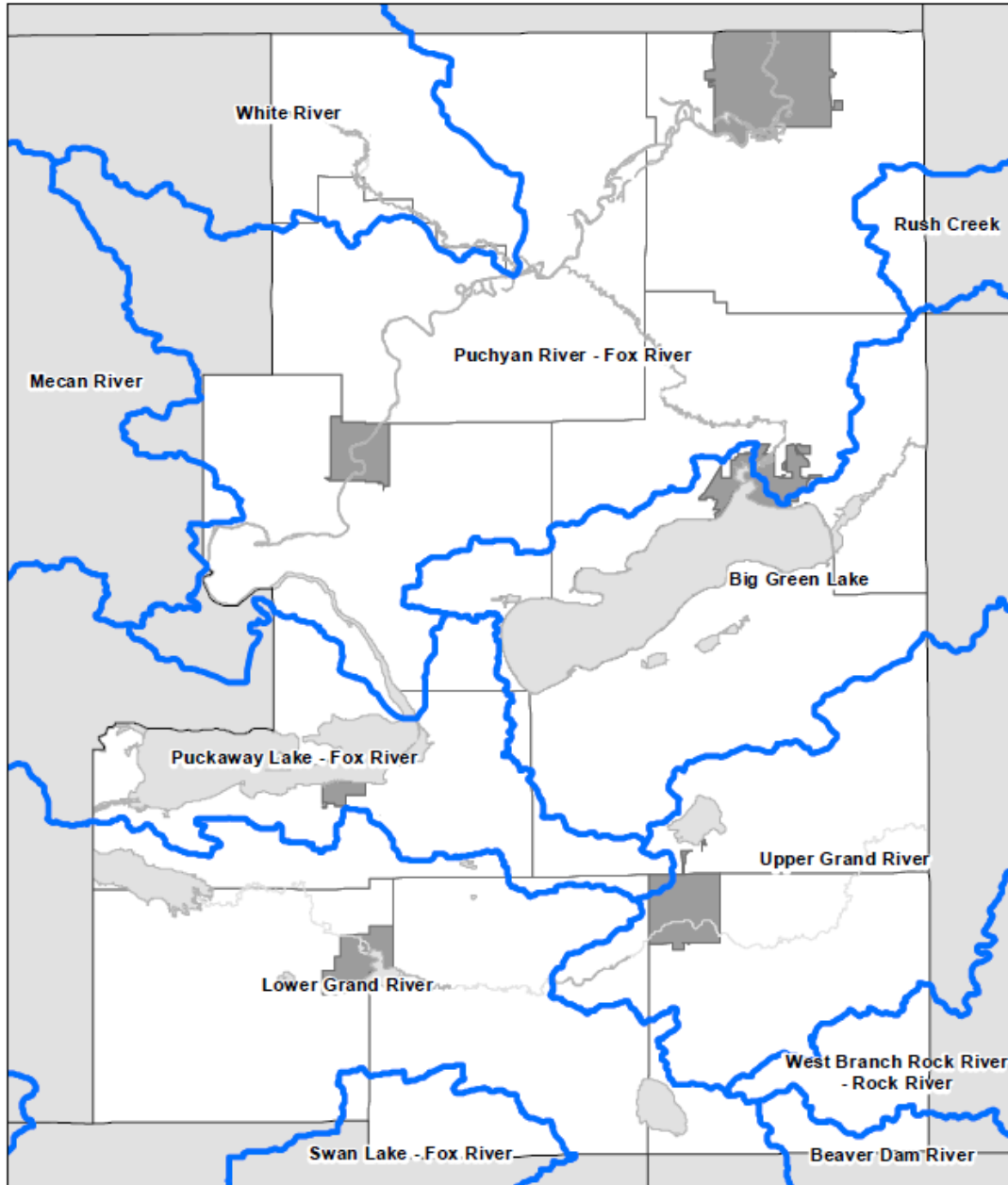




0 3 Miles



**Map 2: Major Lakes and Streams in Green Lake County, WI**



0 3 Miles



**Map 3: Watersheds in Green Lake County, WI**

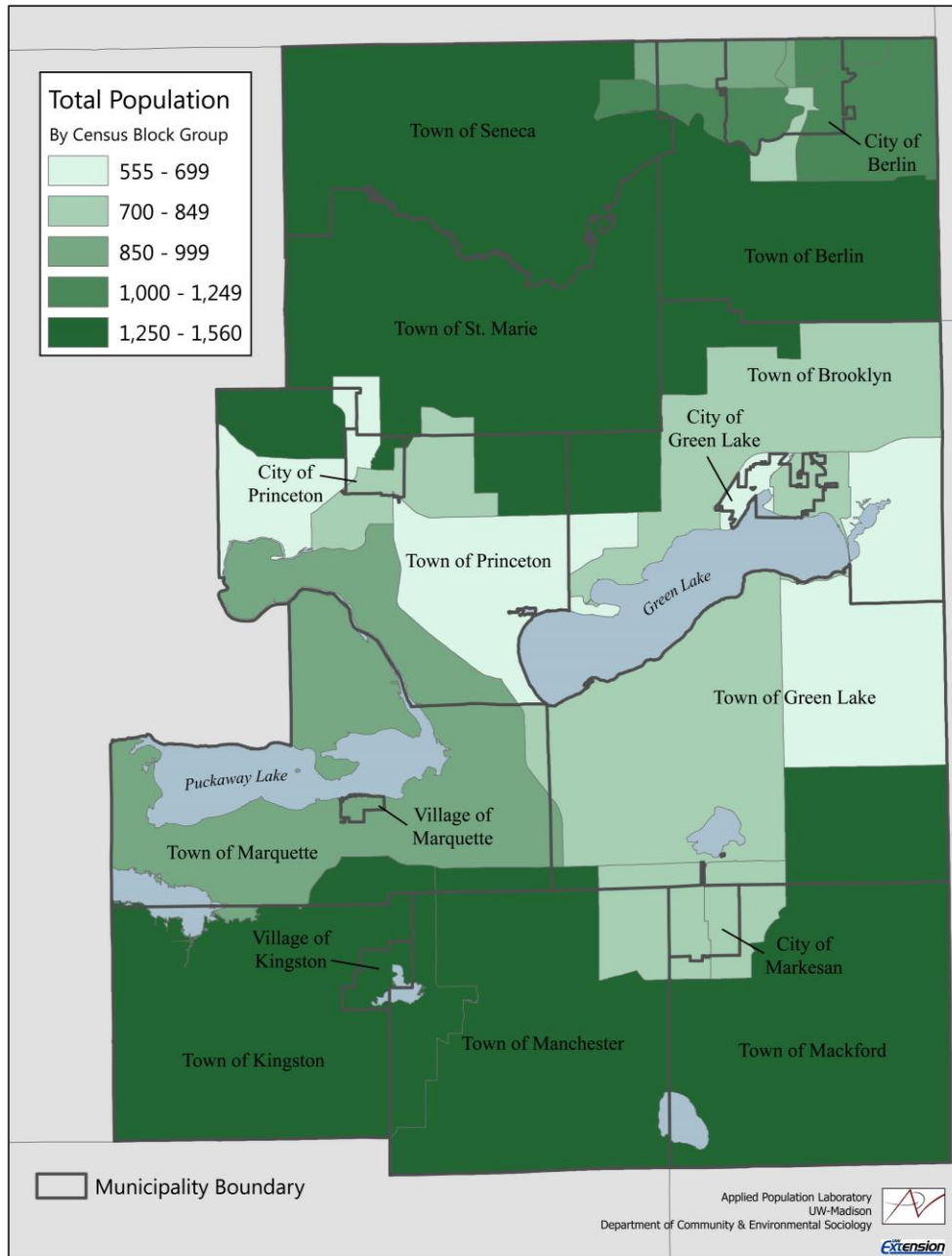
Green Lake is the largest lake in the county, occupying approximately 7920 acres, and is ranked as the seventh largest lake in the state (excluding man-made reservoirs). Being 236 feet deep, Green Lake is also Wisconsin's deepest inland lake. Lake Puckaway is the second largest lake in the county and ninth largest in the state. It covers approximately 5,013 acres.

Surface features of the county are largely the result of glaciation: ground moraine, with low hills and kettles interspaced with old glacial lakebeds and drainage ways. Bedrock escarpments and sand dunes give some diversity to this pattern. Elevations range from approximately 740 to 1080 feet above sea level.

Green Lake County contains four fourth class cities and two villages – Berlin, Markesan, Princeton and Green Lake, and Marquette and Kingston, respectively. Also ten townships – Berlin, Brooklyn, Green Lake, Kingston, Mackford, Manchester, Marquette, Princeton, Seneca and St. Marie. Table 1: displays historic and projected population estimates for Green Lake County. The 2010 Census reported that 19,051 persons were residing in the County.

**Table 1: Population Projection for Green Lake County, WI**

|                         | <b>1980</b> | <b>2010</b> | <b>2020</b> |
|-------------------------|-------------|-------------|-------------|
| <b>Population</b>       | 18,370      | 19,051      | 19,201      |
| <b>White</b>            | 98.6%       | 94.4%       | 92.8%       |
| <b>Hispanic/Latino</b>  | 1.1%        | 3.9%        | 5.4%        |
| <b>Asian</b>            | 0.1%        | 0.4%        | 0.8%        |
| <b>African American</b> | 0.1%        | 0.2%        | 0.8%        |
| <b>Multiracial</b>      | N/A         | 0.5%        | 0.3%        |
| <b>American Indian</b>  | 0.1%        | 0.2%        | N/A         |
| <b>Women</b>            | 50.4%       | 50.1%       | 49.5%       |
| <b>Men</b>              | 49.6%       | 49.9%       | 50.5%       |



Map X. Population of Green Lake County, WI by census block group

## DEFINITIONS

### **Specialized Recreation Areas**

Golf courses, historic sites, conservancy areas, linear trails, multi-use trails (non-motorized), and floodplains are examples of specialized recreation open space areas. Most of these have limited active recreation value, are not developed for multi-purpose recreation, or are not always available for use by the public. Although such areas are not considered in acreage evaluations made for Green Lake County, it must be recognized that specialized areas are an important adjunct to a community and its parks program. As future evaluations of recreation opportunities are undertaken, it may become necessary to include consideration of specialized recreation areas.

### **County Park**

A County park is defined here as having good environmental quality and is greater in area than a community park with good accessibility by car, serving large portions of the county. These parks are usually within a half-hour drive of residents or 15 miles. It may provide a year around access for diversified multi-use recreation with a considerable amount of undeveloped land for people of all ages. It may also be developed in conjunction with some unique environmental, historical, etc. features of the county.

### **Regional Park**

A Regional Park is defined here as having unique environmental quality with good regional accessibility to surrounding counties, cities, and village residents. It usually provides year - round recreation of a passive nature with emphasis on the natural state for people of all ages.

## PARK STANDARDS

| <u>Type of Recreational Land</u> | Acres per 1,000 Population |          |
|----------------------------------|----------------------------|----------|
| Regional Outdoor Recreation      | 100 Acres                  |          |
| State                            |                            | 80 Acres |
| County                           |                            | 15 Acres |
| Private                          |                            | 5 Acres  |
| Local Outdoor Recreation         | 10 Acres                   |          |
| Total Outdoor Recreation         | 110 Acres/1,000 Population |          |

Regional Outdoor Recreation is broken into three levels of responsibility – the State, County and Private.

### **The Role of the State**

The State’s role is to provide 80 acres or 80 percent of the regional outdoor recreation. This quantity is divided into two types of open space.

1. State parks and recreation areas.
2. State forest, wildlife areas, scientific preservation areas, etc.

### **The Role of the County**

It is recommended that the counties provide 15 acres or 15 percent of the regional outdoor recreation. When land is provided by towns, basically rural in population, that land should be considered part of the county’s portion to meet the standard. The County’s lands are composed of two general types also:

1. County Parks
2. County forests, wildlife, or preservation areas

Although rural towns may help to meet county standards, the majority of that requirement is the role of the county.

### **The Role of the Private Sector**

It is recommended that the private sector is capable of supplying five acres per 1,000 population or five percent of regional outdoor recreation. This will not only help to satisfy the requirement of regional outdoor recreation, but will also be beneficial for economical gains. The private sector’s portion is composed of golf courses, campgrounds, marinas, beaches, or conservation oriented areas.

## GOALS AND OBJECTIVES

The function of all plans is to set measurable goals and objectives. Therefore, it is imperative that a community formulate goals (ends) which it hopes to attain. This section's purpose is to make explicit the goals and objectives of Green Lake County's Outdoor Recreation Plan.

Goals may be defined as general statements of desirable ends, while objectives are measurable statements of desirable ends. Objectives are usually specific, but at all times they are in harmony with stated goals. As desires and needs change, so too must goals and objectives. Goals and objectives should be subjected to a continuous refinement process.

### **#1. Outdoor Recreation**

Goal: To provide a planned system of Parks and Recreation Areas that contains a diversity of recreation activities and to maintain existing areas and park apparatus.

Objectives:

- To acquire and develop recreation lands necessary to meet the demand for recreational facilities for both permanent and seasonal Green Lake residents.
- To maximize the use of all public recreation lands within the county.
- To preserve or obtain public access to lakes, rivers, and streams and maximize their use for recreation.
- To provide shelter houses and convenience structures to support outdoor recreational activities.
- To maintain and beautify established parks through continued inspection and policing as necessary.
- To increase local recognition and pride, signs of uniform size and material should be installed at all parks and major thoroughfares leading to the parks.
- To maintain community support by providing affordable recreation programs.
- To provide facilities accessible to the elderly and handicapped.
- Multi-use trails

## **#2. Unique Natural and Cultural Resources**

Goal: To preserve scarce and valuable resources important to the ecological, sociological and economic life of the county.

Objectives:

- To encourage the preservation and enhancement of natural features of the county from encroachment by man-made development including intensive recreational development, commercial recreation and second homes.
- To conserve vegetation and trees needed to prevent erosion and floods and to protect air and water quality.
- To conserve lands with soils and terrain highly suitable for agricultural activity.
- To preserve wetlands necessary for continued fisheries and wildlife habitat and for groundwater recharge purposes.
- To conserve ecological areas with sensitive plant life or irreplaceable high quality plant and animal communities.
- To preserve unique or unusual geological features.
- To protect historic buildings, landmarks and archaeological sites significant to the heritage of Green Lake County.



## NATURAL AND CULTURAL RESOURCES

Green Lake County has a large inventory of natural and cultural resources. Some of these resources can be enjoyed without further development, while others will require improvements to achieve their full recreational potential. While these resources offer the major recreational opportunities in the county, their development must be carefully controlled so as not to destroy the very qualities that make them so unique in the first place.

### **Natural Resources**

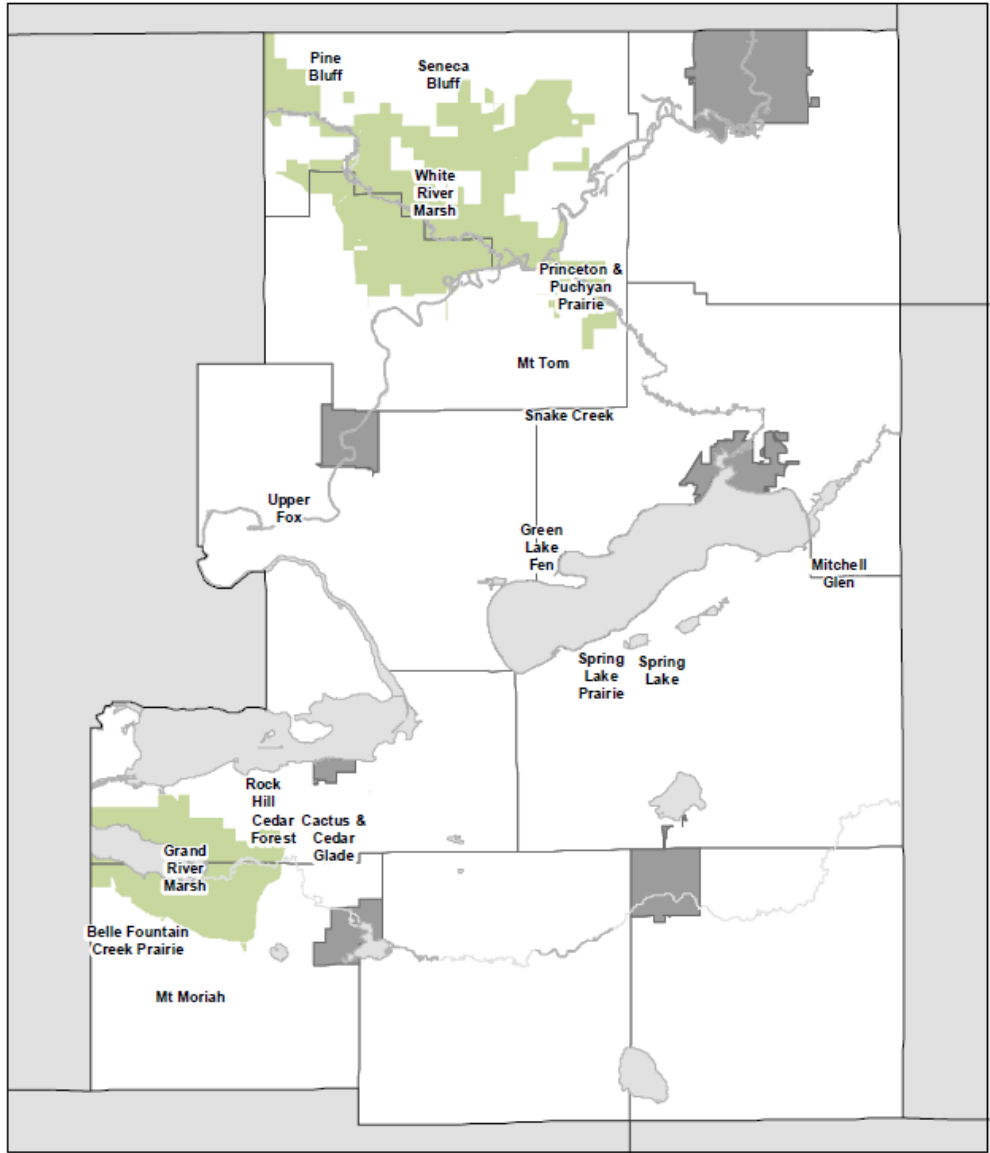
Important natural areas in Green Lake County have been identified by state and local officials and are further discussed in the Outdoor Recreation and Open Space Plan for East Central Wisconsin. Areas that have the highest environmental quality, good accessibility, and are potentially threatened by development pressures are generally viewed as the highest priority recreational and open space resources of the county.

Of the natural areas in the county, those areas having unique environmental characteristics, which the public should allow to remain as preservation areas are:

- The upper Fox River located southwest of Princeton has been identified as a regionally significant preservation area. This area, composed mostly of private ownership, should be kept in as natural a state as possible.
- The Snake Creek Corridor northwest of Green Lake has been identified as a regionally significant corridor. Methods such as conservancy zoning or floodplain zoning should be used by Green Lake County to ensure the preservation of the Snake Creek Corridor.
- The Mitchell Glen area located southeast of Green Lake has long been recognized as a natural resource preservation area. If investigation for acquisition as a public preservation area is not feasible, the private sector, which retains ownership, should be encouraged to protect the area from adverse development.

### **Cultural and Ecological Sites**

Appreciation of the unique geological, historical, ecological, and archaeological heritage of the county is a significant educational aspect of public outdoor recreation. Most locations are still unprotected and in private ownership. Many risk deterioration or destruction because of new development. Others have not been investigated since they were initially inventoried in the early part of the century and may already have been destroyed or built over. The geological, historical and ecological sites identified should be maintained in their existing condition due to their attractive unique characteristics. In Green Lake County these sites are composed of public hunting and fishing areas, geological areas, ecological areas, and historical structures or sites displayed in Map 4 and listed on Table 2.



0 3 Miles



**Map 4: Ecological sites in Green Lake County, WI**

## **Table 2: Ecological sites in Green Lake County, WI**

### **Wildlife Areas (WA)**

White River Marsh Wildlife Area (10,593.55 Acres)

Grand River Marsh Wildlife Area (5,671.25 Acres)

### **Preservation Areas**

SC = Snake Creek Corridor

MC = Mitchell's Glen

UF = Upper Fox, Southwest of Princeton

### **Geological and Ecological Areas**

1. Mount Tom – 4 miles northwest of the City of Green Lake
2. Mitchell Glen – 2 miles southeast of the City of Green Lake
3. Monadnock Outcropping – southwest of Marquette
4. Princeton Prairie – 4 miles northeast of Princeton
5. Mount Moriah – 1 mile north of Dalton
6. Green Lake Fen – 4 miles southwest of Green Lake
7. Pine Knob – 8 miles west of Berlin
8. Marquette Cedar Forest – 1 mile southwest of Marquette
9. Spring Lake – 5 miles north of Markesan
10. Seneca Bluff – 4 miles west of Berlin
11. Cactus and Cedar Glade – 1 mile south of Marquette
12. Fountain Creek Prairie – 3 miles west of Kingston
13. Spring Lake Prairie –  $\frac{3}{4}$  miles southwest of Spring Lake

## **EXISTING RECREATION AREAS**

Existing public recreational areas in the County total over 16,500 acres, or nearly 8 percent of the total area of the County. These areas can be divided into five major categories related to their use and ownership: conservation areas; water surface areas; county parks; community parks; and water-access areas, the largest portion of which is state owned public hunting and fishing lands (16,264.80 acres). The second largest portion is county owned recreation lands (314 acres of which 84 acres are developed). These facilities, in addition to private campgrounds, golf courses, and forest crop land, play a dominant role in supplying opportunities for outdoor recreation.

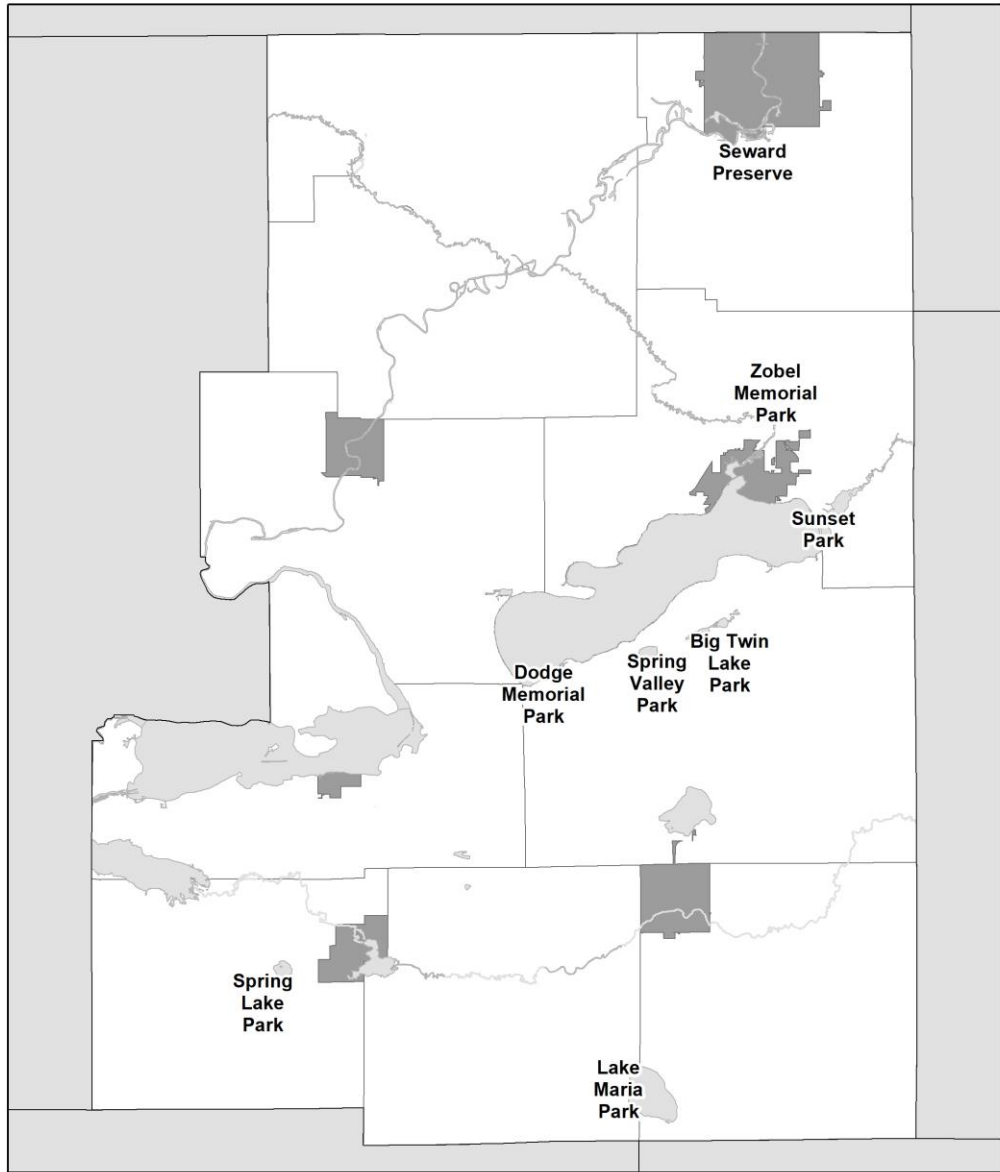
### **Conservation Areas**

Two larger conservation areas, under development by the State Department of Natural Resources, cover over 16,000 acres in the County. The White River Marsh is located in the northwest part of the County; a major portion of the Grand River Marsh is located in the southwest part of the County. The objective of both projects is the propagation of waterfowl and their harvest through controlled hunting. A smaller state wildlife area (73 Acres) is also located at Heart Lake. In recent years, Operation Migration as established their whooping crane breeding and training operations within White River Marsh . The bird once faced extinction.

### **County Parks**

The County maintains eight multi-purpose park areas providing a variety of recreation facilities and in addition, the County maintains several water-access sites. The largest of the parks is Dodge Memorial Park, on the south shore of the lake, which provides approximately 14 acres developed for intensive recreation and additional large undeveloped land and water acreage (approximately 230 acres). Spring Lake Park, located west of Kingston, is much smaller in size (totaling only four acres), but does provide beach and picnic facilities in addition to boating access. Zobel Park, containing 40 acres north of Green Lake, provides picnicking, hiking, sightseeing and nature related activities. Sunset Park on the east end of Big Green Lake is a relatively narrow park bordering County A. The park offers semi-improved boat landings, shore land fishing opportunity, restrooms and a covered picnicking shelter. The County Parks on Map 5 shows the location of each of the parks. Other parks include, Big Twin Park, and Lake Maria Park, Spring Valley, and Seward Preserve.

**Map 5  
County Parks**



0 3 Miles



Map 5: County Parks for Green Lake County, WI

## RECREATION INVENTORY

### State Wildlife Areas

(State of Wisconsin, Department of Natural Resources)

| <u>Name</u>                                                                | <u>Size (in acres)</u> | <u>Activities and Facilities</u>                                                                         |
|----------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|
| 1. Grand River Marsh<br>Wildlife Area<br>(Town Marquette/Town<br>Kingston) | 5,671                  | Fishing (7 miles/minor river,<br>boat launch), hunting,<br>canoeing, scenic overlooks;<br>public parking |
| 2. White River Marsh<br>Wildlife Area<br>(Town Seneca/Town St.<br>Marie)   | 10,594                 | Fishing (9 miles/minor river);<br>hunting, canoeing,<br>snowmobiling trail; public<br>parking            |
| 3. Heart Lake Wildlife Area                                                | 73                     | Fishing, Hunting                                                                                         |

### County Parks and Lake Access

| <u>Name</u>                                | <u>Size (in acres)</u> | <u>Activities and Facilities</u>                                                                                                                                                                                                 |
|--------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Dodge Memorial Park                     | 244<br>(14 developed)  | Boating, fishing, water-skiing<br>(access to Green Lake – 7,325<br>acres 5 boat launches);<br>picnicking; shelter; restrooms;<br>playground equipment;<br>improved parking lot (125<br>vehicles); well; swimming; ice<br>fishing |
| 2. Zobel Park                              | 40                     | Picnicking (grills & tables); 2<br>restrooms; parking spaces for<br>125; benches; shelter; sledding<br>hill; walking trails; xx-skiing;<br>disc golf                                                                             |
| 3. Spring Valley Park<br>(Town Green Lake) | 4                      | Boating; fishing (access to<br>Spring Lake – 75 acres, one<br>boat launch & pier); 2 place<br>grill station; improved parking<br>lot (30 vehicles)                                                                               |

|                                   |     |                                                                                                                                                                           |
|-----------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Spring Lake Park<br>(Kingston) | 4.5 | Boating; fishing (access to Spring Lake 70 acres, 1 boat launch); swimming (300 ft. beach); picnicking (tables & grills); 2 restrooms; improved parking lot (40 vehicles) |
|-----------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**County Parks and Lake Accesses**

| <b><u>Name</u></b>           | <b><u>Size (in Acres)</u></b> | <b><u>Activities and Facilities</u></b>                                                                                                            |
|------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Big Twin Access           | 4                             | Boating; fishing (access to Big Twin Lake – 74 acres, 1 boat launch & pier); picnicking (2 grills); 1 restroom; improved parking lot (30 vehicles) |
| 6. Sunset Park               | 2                             | Boating; fishing; (access to Green Lake – 7,325 acres, 4 boat launches); picnicking; 2 restrooms; improved parking lot (75 vehicles)               |
| 7. Wayside Lake Maria Access | 4                             | Fishing (access to Lake Maria – 63 acres, 1 boat launch); picnicking; 2 restrooms, improved parking lot (30 vehicles)                              |
| 8. Seward Preserve           | 90                            | Nature conservatory                                                                                                                                |

**Township Public Accesses (Improved)**

| <b><u>Name</u></b>                          | <b><u>Size (in acres)</u></b> | <b><u>Activities and Facilities</u></b>                                                  |
|---------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------|
| 1. Horner’s Landing<br>(Town of Green Lake) | .05                           | Boating; fishing; (access to Green Lake – 7,325 acres, 1 boat launch; 30 parking spaces) |
| 2. Fox River<br>(Town of St. Marie)         | 5                             | Boating; fishing; access to Fox River; 1 boat launch; improved parking lot (30 vehicles) |

## **Fox River Locks**

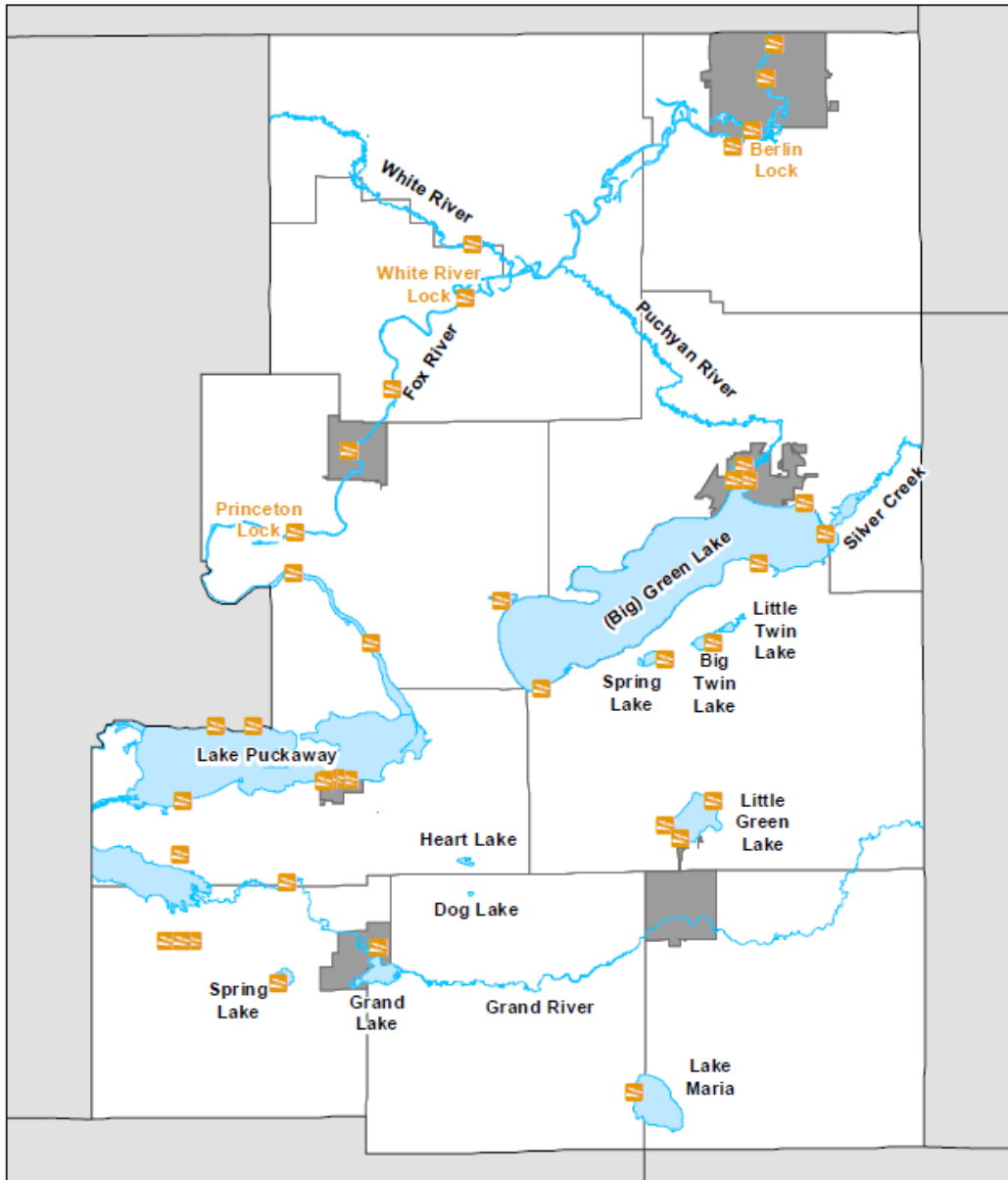
| <b><u>Name</u></b>  | <b><u>Size (in acres)</u></b> | <b><u>Activities and Facilities</u></b>     |
|---------------------|-------------------------------|---------------------------------------------|
| 1. Berlin Lock      | 62.1                          | Boat launching ramps;<br>parking; restrooms |
| 2. Princeton Lock   | 26.25                         | Boat launching ramps;<br>parking; restrooms |
| 3. White River Lock | 34.5                          | Boat launching ramps;<br>parking; restrooms |

## **Quasi-Public Recreation Areas**

| <b><u>Name</u></b>                                 | <b><u>Size (in acres)</u></b> | <b><u>Activities and Facilities</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Green Lake Conference Center<br>(Town Brooklyn) | 1,100                         | Boating; fishing; (access to Green Lake – 7,325 acres, 1 boat launch); bicycling and hiking trails (20 miles); snowmobiling trails (12 miles); swimming (50 ft. beach); camping (119 sites, restrooms); golfing (36 hole course); clubhouse, driving range); picnicking (4 acres – 120 tables, 25 grills, shelters, restrooms); tennis; basketball; disc golf; shuffleboard courts, skating rink; ball fields; tobogganing and sledding hills; skiing (250 acres slopes, 22 miles cross country); 500 plus parking places, restaurant. |
| 2. Mascoutin Country Club<br>(Town of Berlin)      | 160                           | Golfing (27-hole course, clubhouse, driving range); 125 parking spaces, restaurant.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3. Grand Valley Campground<br>(Town of Kingston)   | 108                           | Camping; (200sites, restrooms, showers);; fishing (5 acre private lake); swimming (pool and pond); playground equipment; 19-hole mini-golf; ball fields; 2 recreation halls; 210 parking spaces, access to public hunting grounds next door.                                                                                                                                                                                                                                                                                           |
| 4. Tuscumbia Country Club<br>(City of Green Lake)  | 67                            | Golfing (18 hole course, 9-hole Par-3 course, clubhouse, driving range); 100 parking spaces; restaurant.                                                                                                                                                                                                                                                                                                                                                                                                                               |



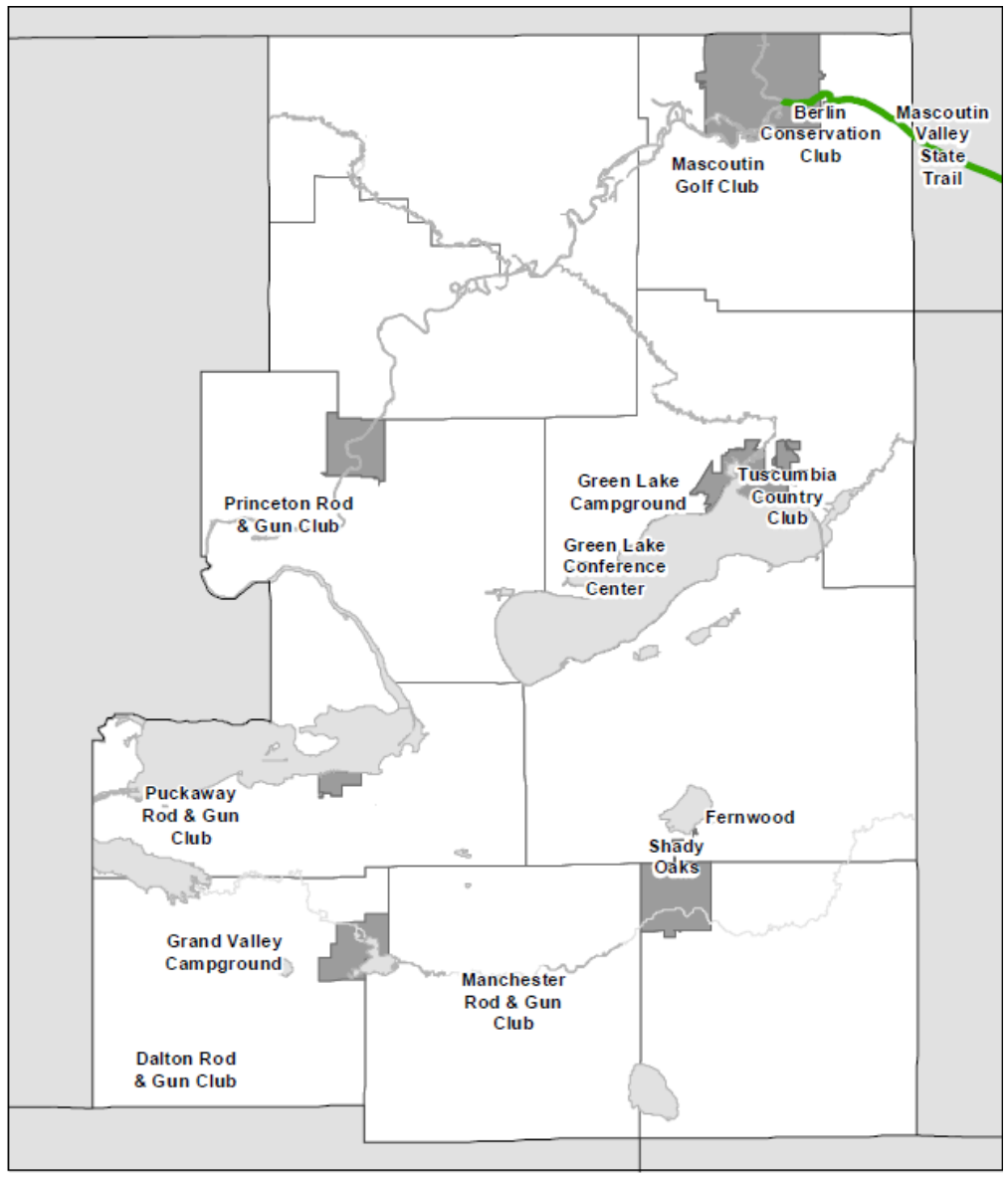
| <u>Name</u>                                           | <u>Size (in acres)</u>                     | <u>Activities and Facilities</u>                                                                                                                                        |
|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Green Lake Campground<br>(Town of Brooklyn)        | 65                                         | Camping (350spaces, restrooms); swimming (1/4 acres private lake & 4 pools); picnicking (150 tables, 130 grills); playground equipment; ballfields; 150 parking spaces. |
| 6. Shady Oaks Campground<br>(Town of Green Lake)      | 30                                         | Camping (165 spaces, restrooms)                                                                                                                                         |
| 7. Fernwood Trailer Camp<br>(Town of Green Lake)      | 10                                         | Camping (32 sites, restrooms)                                                                                                                                           |
| 8. Berlin Conservation Club<br>(Town of Berlin)       | 110                                        | Camp Refuge                                                                                                                                                             |
|                                                       | 10                                         | Skeet, trap, rifle, pistol and archery ranges.                                                                                                                          |
| 9. Dalton Rod & Gun Club<br>(Town of Kingston)        | 28.4                                       | Trap, rifle and pistol ranges.                                                                                                                                          |
| 10. Manchester Rod & Gun Club<br>(Town of Manchester) | 17.8                                       | Trap and skeet ranges.                                                                                                                                                  |
| 11. Princeton Rod & Gun Club<br>(Town of Princeton)   | 29.39                                      | Trap, rifle, pistol and archery ranges.                                                                                                                                 |
| 12. Puckaway Rod & Gun Club<br>(Town of Marquette)    | 10                                         | Trap, rifle, pistol and archery ranges.                                                                                                                                 |
| 13. Mascoutin Multi-Use Trail                         | 12 miles<br>total (2.5<br>miles in<br>GLC) | Walking, biking, bird-watching,<br>snowmobiling.                                                                                                                        |



0 3 Miles



Map 6: Boat Landings and Launches in Green Lake County, WI



0 3 Miles



Map7: Quasi-Public Recreation Areas in Green Lake County, WI

## **Public Access Areas**

In addition to the multi-purpose parks, there are a number of public areas devoted to providing boating access. Green Lake, Puckaway, and the Fox River have the largest number of such access points. Most are under the jurisdiction of township units of government. See Map 6, Boat Landings and Locks for their locations.

## **Recreation Action Program**

As previously noted in this plan, Green Lake County has had a relatively constant population over time. In 2010, Green Lake County had a population of 19,051; the County population is projected be 19,201 by 2020. It's estimated that the already substantial seasonal population has increased in the county from 30,000 in 2000 to 34,000 by the year 2010, placing further pressure on county recreational facilities.

### **Present Demand**

Extensive acreage devoted to recreation in Green Lake County is satisfactory to meet residential population demands. However, it fell below recommended standards in 2000 when you consider summer residents and tourists. One can only suggest that if the county is able to reasonably acquire additional parkland or one of the recommended preservation areas, that it be seriously considered.

| Standard: 15 Acres per 1,000 population |                 |                     |                     |                                   |                     |
|-----------------------------------------|-----------------|---------------------|---------------------|-----------------------------------|---------------------|
| Year                                    | Res. Pop. Proj. | Existing Rec. Acres | Surplus /Deficiency | Inc. Proj. Summer Max. Population | Surplus /Deficiency |
| 2000                                    | 19,105          | 314                 | +28                 | 30,000                            | -136                |
| 2010                                    | 19,051          | 314                 | +24                 | 34,000                            | -196                |
| 2020                                    | 19,201          | 314                 |                     | 34,000                            |                     |

Surpluses were available for activities such as camping, boating, fishing, canoeing and golfing. Private facilities are a major resource to meet many of these needs, particularly those such as golf, and camping. Fulfilling demand generated by seasonal residents and tourism depends to a great extent on development of private facilities.

### **Future Demand**

According to the Wisconsin Department of Natural Resources, 20 percent of recreation demand in Green Lake County is generated by the resident population of the County; while 80 percent comes from tourism and seasonal development generated by proximity to Chicago, Milwaukee and the lower Fox River Valley. This demand tends to be concentrated in certain activities such as pleasure driving, boating, swimming, fishing, picnicking, sightseeing, and in the future is expected to increase the demands for hunting, fishing, camping, nature study, and biking hiking and multi-use trails.

## **5 Year Plan - Specific Recommendations** (See Appendix I)

### **General Recommendations for Existing Facilities**

- Additional picnic facilities (tables, benches, and grills) should be added to all county parks and accesses.
- Additional development facilities that may be considered are, dependent on available resources: improved boat landings, shelters, restroom facilities, parking lot improvements, landscaping and safety lighting.
- Town owned public lake accesses should be considered for improvements to the access roads and boat launch areas. This might entail new gravel and blacktopping. Units of government might in addition to the above consider the addition of picnic tables, grills and restroom facilities at these accesses, if feasible.

### **Areas that are identified as valuable county resources should be preserved.**

- Areas, corridors and sites that contain unique environmental qualities offer great potential for satisfying many outdoor recreational needs simultaneously. The preservation of these areas will be of major significance in controlling scattered development patterns, preserving wetlands and other environmentally sensitive areas for wildlife habitat and passive recreation, preserving recognized scientific areas, and serving as learning resource centers. These areas were identified in the prior section on Natural and Cultural Resources.
- For the recommended preservation areas, the county should consider maintaining all these areas in their natural state. In maintaining and, in some cases, improving these natural resources, the county should consider establishing these policies:
  - Require an evaluation of the impacts of future recreational development or other development on the natural resources of the county prior to the approval of such development.
  - For all major development projects, evaluate water quality impacts on the Upper Fox River and its tributaries to insure that such development is compatible with the maintenance of water quality standards.
- In future land acquisition activities, the county may consider one of these sites or encourage the private sector to preserve these areas through enforcement of the aforementioned policies.

**Continued maintenance of all county parks and public water accesses with periodic replacement or upgrading of equipment and access facilities is desirable.**

- Existing facilities are serviceable and attractive and well located for residents of the county.

**Provide a public snowmobile trail system through implementation of a Green Lake County Snowmobile Trail Plan.**

- A snowmobile trail plan that will meet county needs and at the same time link up with a region wide system should be continued and maintained. Note: the snowmobile clubs have the plan.

## **OTHER RECREATION FACILITIES**

In addition to the state and county lands, which together account for the largest proportion of parkland in Green Lake County, two other types of facilities supplement the recreation needs in the county.

### **Municipal Parks**

Each urban community within the County should continue to provide active recreation facilities for its residents. These facilities for active recreation supplement the state and county park and wildlife areas which are generally designed for passive or nature study recreation, or certain activities such as hunting or boating which draw from a wider area. Existing facilities are serviceable, generally attractive, and well located for the residents of the individual community. Continued maintenance of these parks along with periodic replacement of equipment and access facilities is desirable.

As stated earlier, there is currently a deficit of available recreational area due to the increased number of summer residents and tourists. Often these persons congregate in the municipal parks and recreation areas. This being the case it is recommended that if a municipality has the opportunity to purchase new or expand/improve existing recreational areas the county would hope they do so. These actions will allow more people to enjoy Green Lake County and will help to alleviate the deficiency in available recreational land.

### **Quasi-Public Recreation Facilities**

Since the private recreation areas in Green Lake County presently provide the only facilities for activities such as camping, skiing and golfing, continued maintenance and development of private facilities will be essential if the County is to meet recreation needs generated by tourism and seasonal residents. In particular, the County should continue to encourage the development of high quality private campgrounds to meet future needs for this activity.

**APPENDIX I**  
**Green Lake County**  
**Five-Year Plan**

**Park and Recreation  
Action Plan  
2020-2025**

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**Dodge Memorial Park**

Continue to improve and add new playground equipment  
Replace boat launch area restroom  
Add new water fountain water bottle filler station in pavilion  
Update-Replace privacy partitions – men’s and women’s restrooms in pavilion  
Install new epoxy floor coating – men’s and women’s restrooms

**Sunset Park**

Update – Replace – privacy partitions – men’s and women’s restroom  
Create a small safe access area for swimming  
Add 2 small units of playground equipment

**Twin Lake**

Add small post frame shelter

**Spring Valley (Town of Green Lake)**

Pave launch and parking area  
Add small post frame shelter

**Spring Lake (Town of Kingston)**

Add 1 unit of playground equipment  
Resurface parking and launch area

**Lake Maria**

Replace restroom  
Resurface parking and launch area  
Add trees

**Zobel Park**

Add restroom lower park area  
Add small post frame shelter lower park area  
Replace restroom upper park area



### **Mascoutin Valley State Trail**

Update all signage

### **Multi-Use Recreational Trails (non-motorized/motorized)**

Continue to improve existing trail system

Investigate areas for additional multi use trails

In coordination with Highway Department/Townships, investigate areas along state roads, county roads, town roads, possibilities for multi-use trails when feasible

### **COUNTY WIDE**

Investigate acquisition of land for new parks and nature areas when feasible

**GREEN LAKE COUNTY PARKS & RECREATION DEPARTMENT  
ANNUAL REPORT FOR 2022**

This report was generated from 2022 Expenditure Detail Report by Accounting 02/20/23

|                                                    | 2021      | 2022       |
|----------------------------------------------------|-----------|------------|
| Security Lighting/Electricity                      | 3,369.02  | 1,684.05   |
| Snowmobile Trail Maintenance                       | 67,943.30 | 67,287.00  |
| Sanitary District/Fish Rearing                     | 950.00    | 1,000.00   |
| Green Lake Trail Project                           | 0         | 469,172.00 |
| Boat Launch Maint./Signage/Trash/Terminals/Privy's | 22,478.06 | 18,311.18  |
| Launch Fee's/Revenue                               | 55,466.80 | 49,497.00  |
| Equipment Rental/Lease                             | 628.78    | 537.45     |
| Equipment/Equipment Repair & Maintenance           | 1,965.60  | 1,568.72   |
| Parks Revenue                                      | 0         | 0          |
| Parks Donations/Carry Over                         | 45        | 45         |
| Fuel Parks                                         | 2,523.38  | 3,698.22   |
| Tools/Consumables                                  | 579.02    | 67.35      |
| Mandated Water Testing                             | 32.9      | 30         |
| PPE                                                | 189.16    | 183.81     |
| Sanitation                                         | 842.37    | 1,766.36   |
| Sewer/Sanitary Pumping                             | 2,555.80  | 3,361.01   |
| Trash/Parks Only                                   | 688.81    | 617.41     |
| Maint. Buildings/Grounds/Furnishings               | 1,779.08  | 1,401.77   |
| Improvements                                       | 3,193.15  | 710.26     |
| Capital Outlay Projects                            | 28,282.34 | 25,750.06  |

# GREEN LAKE COUNTY

## Notice of Budgetary Adjustment

Unanticipated Revenue or Expense Increase or Decrease Not Budgeted

Date: April 5, 2023  
 Department: Maintenance/Parks  
 Amount: -\$32,144.61  
 Budget Year Amended: 2023

Source of Increase / Decrease and affect on Program:  
 (If needed attached separate brief explanation.)


Wages for Zachary Walker were supposed to be adjusted in the 2023 budget for 6 months in Maintenance, 5 months in Parks, and 1 month for Boat Launch. This will correct the errors in the 2023 budget.

**Revenue Budget Lines Amended:**

| Account #        | Account Name | Current Budget | Budget Adjustment | Final Budget |
|------------------|--------------|----------------|-------------------|--------------|
|                  |              |                |                   | \$ -         |
|                  |              |                |                   | \$ -         |
|                  |              |                |                   | \$ -         |
|                  |              |                |                   | \$ -         |
| Total Adjustment |              |                | \$ -              |              |

**Expenditure Budget Lines Amended:**

| Account #               | Account Name     | Current Budget | Budget Adjustment | Final Budget  |
|-------------------------|------------------|----------------|-------------------|---------------|
| 23-100-06-51600-110-000 | Salaries         | \$ 341,550.00  | \$ (23,942.46)    | \$ 317,607.54 |
| 23-100-06-51600-151-000 | Social Security  | \$ 26,180.00   | \$ (1,831.60)     | \$ 24,348.40  |
| 23-100-06-51600-153-000 | Retirement       | \$ 23,272.00   | \$ (1,628.09)     | \$ 21,643.91  |
| 23-100-06-51600-154-000 | Health Insurance | \$ 83,607.00   | \$ (4,725.48)     | \$ 78,881.52  |
| 23-100-06-51600-155-000 | Life Insurance   | \$ 1,291.00    | \$ (16.98)        | \$ 1,274.02   |
| Total Adjustment        |                  |                | \$ (32,144.61)    |               |

Department Head Approval:   
 Date Approved by Committee of Jurisdiction: \_\_\_\_\_

(see attached)

*Following this approval please forward to the County Clerk's Office.*

Date Approved by Finance Committee: \_\_\_\_\_  
 Date Approved by County Board: \_\_\_\_\_

*Per WI Stats 65.90(5)(a) must be authorized by a vote of two-thirds of the entire membership of the governing body.*

Date of publication of Class 1 notice of budget amendment: \_\_\_\_\_

Expenditure Budget Lines Amended:

|                         |          |
|-------------------------|----------|
| 23-100-12-55200-120-000 | 19952.05 |
| 23-100-12-55200-151-000 | 1526.33  |
| 23-100-12-55200-153-000 | 1356.74  |
| 23-100-12-55200-154-000 | 3937.90  |
| 23-100-12-55200-155-000 | 5.00     |
| 23-100-12-55200-350-360 | 5366.59  |
|                         | 32144.61 |

April 10, 2023  
Parks Commission  
Meeting  
Parks & Recreation Department  
Green Lake County

#### Zobel Memorial Park

Materials for forms etc. ready for concrete sidewalk for upper privy ready  
Scheduled Maintenance performed  
General Maintenance performed

#### Sunset Park

Concrete forms premade for memorial bench install for mid April  
Memorial bench assembled waiting for install  
Scheduled Maintenance performed  
General Maintenance performed

#### Twin Lake Parks

Scheduled Maintenance performed  
General Maintenance performed

#### Spring Valley Park

Scheduled Maintenance performed  
General Maintenance performed

#### Dodge Memorial Park

Willow tree hanging over water trimmed up haul away (did work on the ice)  
Advertisement for Bids for concrete launch ramps submitted to paper  
Ramp project moved out due to DNR permitting. Will confirm dates when permit approved/Notice put in paper regarding no bids were received by Green Lake County all vendors that requested information were contacted.  
Army Corps of Engineers review came back for ramp replacement no report or permitting is required to them. Waiting for DNR permitting 03/29/23 Info attached  
Scheduled Maintenance performed  
General Maintenance performed

#### Lake Maria Park

Scheduled Maintenance performed

General Maintenance performed

Spring Lake Park

The Teal privy has been put on the vendors production schedule and we are looking at an August delivery.

Weekend of 02/04/23 - A citizen from Kingston Park area contacted Parks and reported a bunch of bedding and mattresses etc. dumped by horse tie off area-he said he got some cameras up to catch those dirty !!!!!!!!!!! I thanked him.

Scheduled Maintenance performed

General Maintenance performed

Seasonal maintenance being performed on equipment

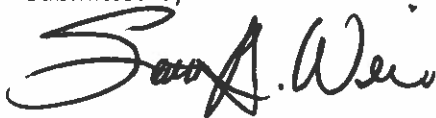
ADA kayak launch information included in packet (informational purposes)

A tour was given to the County Administrator of our Parks System 02/14/23

2022 Parks & Recreation Department Annual Report included in packet

Line Item Transfer for staff (full time) included in packet

Submitted by:

A handwritten signature in black ink that reads "Scott A. Weir". The signature is written in a cursive, flowing style.

Scott A. Weir

Maintenance Director/Parks & Recreation Director

Green Lake County