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CapSHURE DECK DRAIN PACKAGE INSTALLATION INSTRUCTIONS

FOR INDOOR AND OUTDOOR USE
CERTIFIED by IAPMO R&T to NSF/ANSI/CAN 50 2020
40% OPEN AREA of unrestricted flow through grating

Read carefully BEFORE installation

Product Reference: **CapSHURE-DDD-Deck-Drain**
 CapSHURE-DDD-12x12x12-Drop-Out-Box

DO NOT mishandle, drop, or throw CapSHURE deck drain base, cap or any of its components as this may cause cracks or breaks. Misuse or mishandling is not covered by the warranty.

Safe Cutting of CapSHURE-DDD-Deck Drain base and cap:

Mark deck drain to the desired length, including allowing space for the rubber joiner. **Fig-5.** To avoid splintering, install the cap and use a 12-inch, 80-teeth min. chop saw at maximum speed and slowly cut the base and cap. Always wear safety glasses while cutting the base and cap.

INSTALLATION METHODS:

Installing CapSHURE Deck Drain

1. Pre-Installed Paving Preparation:

The trough must be a minimum of 10-inches wide and the depth will be determined by the thickness of the paving material. If using threaded rods and lock nuts (*not supplied by Daldorado*) to level the deck drain system, a deeper trough may be needed. Drive the rods through the predrilled holes in the deck drain base into the solid sub-base material to stabilize the deck drain during concrete pour.

Fig-1

2. New Paving Preparation:

Predetermine the preferred method of leveling and stabilization of deck drain sections. The following method(s) has been observed in the field;

Where steel reinforcement of paving slab and/or utility conduits are required to pass under the deck drain, first establish the distance required below and set the deck drain sections on supports such as channels or dobbies at each end of the deck drain sections and corners. Extend bolts through the predrilled holes in the deck drain base section into the sub-base for stabilization and leveling. A concrete slurry sub-base may be required depending on the stability of the sub-base native material.

Fig-1

3. Beginning at an end or a corner, connect the deck drain base pieces together using the rubber joiners. **Fig-5.** If there is a gravity storm/sewer drop-out connection required in the deck drain base, then this section will need to be installed where required by the design documents or site requirements. The deck drain base sections on each side of the gravity drop-out may need to be cut to fit the design/site

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requirements. Each gravity drop-out or corner will require 1 rubber joiner on each side (2 total) to hold it together and to allow for thermal expansion. **Fig-4**

4. After the base is installed and leveled, replace the disposable cap onto the base to keep the deck drain free of debris. Not replacing the cap may result in the base being compromised and possibly becoming too narrow during the concrete pour for the grating to fit.
5. Once the deck drain base is level, all joiners and the cap has been installed, slowly pour the concrete into the open area around the deck drain base and gently vibrate the concrete into place. Finish concrete per design specifications. While concrete is still wet, clean off any concrete from the cap and exposed edges of deck drain. Using a float trough, trough the edges of the concrete each side along the length of the deck drain base, both sides, to prevent concrete chipping when dried and cap is removed to install grate.

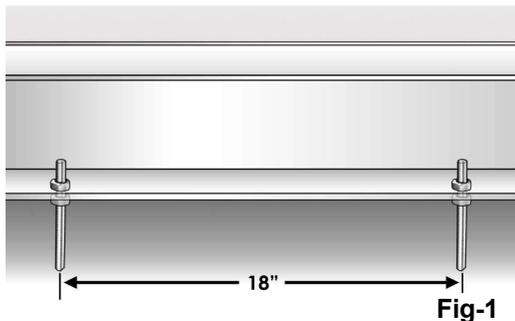


Fig-1

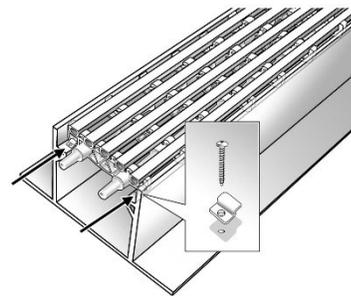


Fig-2

Installing CapSHURE 4-inch Radius Grating:

Package Contents:

Parallel Radius grate in 2 part types: (1) radial supports and (2) curve strips. The curve strips are snapped into the radial supports after the supports are installed.

Hardware: DFS-FASTNET-DD (Sets of 316-SS clips and #8 316-SS screws).

Method of Installation:

Beginning at one of the corners, set the radial supports into the deck drain base. Do not hammer the supports together but leave a 1/32" break for thermal expansion. If radius, the inside edge of the radius supports will have the connector pins pushed closer together than the outside edge of the supports.

On tight radii, if required to adjust fit, shave off the inside male pins to acquire the desired radius.

Fasten radial support using supplied clips and screws every 4-feet on alternating sides. **Fig-2**

The curve strips come in 24" lengths and are joined using the male and female connectors. Assemble 3-4 of the curve strips and snap into place by hand. Staggering splices is not required. The radial supports will keep the strips in place without need for adhesives. Each strip connects to the next and will only require hand tight fitting together to leave a small 1/32" gap for expansion and contraction movement. Do NOT hammer tight.

Cutting the Grate Section:

During installation, when arriving at a corner, a straight to radius/radius to straight transition, or a gutter ending, place a strip of masking tape across the grate strips and mark to the required length and angle. Using a circular saw with a fine-tooth blade (40 tooth minimum) at full speed, slowly cut the grate strips

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along the line. Always wear safety glasses during this process to avoid eye damage. When finished, buff any sharp edges with a fine sandpaper and install grate. **Fig-3 & Fig-4**

Installing CapSHURE 4-inch Straight Grating: DPAS-04 Parallel Straight grating

Follow the same method of installation as the Radius Grating listed above. If fastening the grating is necessary, use #6 1-1/4" 316 Stainless Steel Phillips flat head wood screws. Pre-drill and countersink holes on the edge of the grating, ensuring contact with the ledge on the CAPSHURE-BASE. Space out screws every 4-feet on alternating sides. **Fig-6**

Cleaning and Maintenance:

To keep the grate looking new, the grate must be maintained free of debris. A mild detergent with water and a brush will keep stains from occurring. DO NOT acid wash with harsh chemicals. Regularly inspect the fasteners to ensure that the grate is properly secured to avoid any possible injuries.

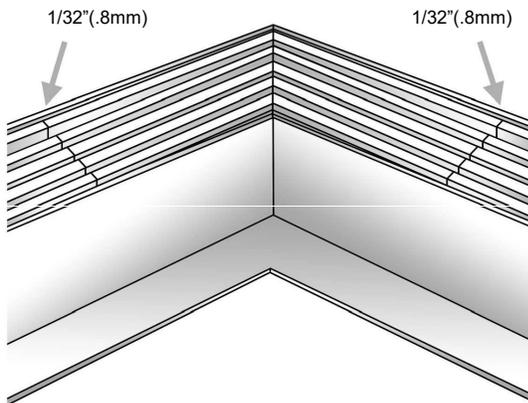


Fig-3

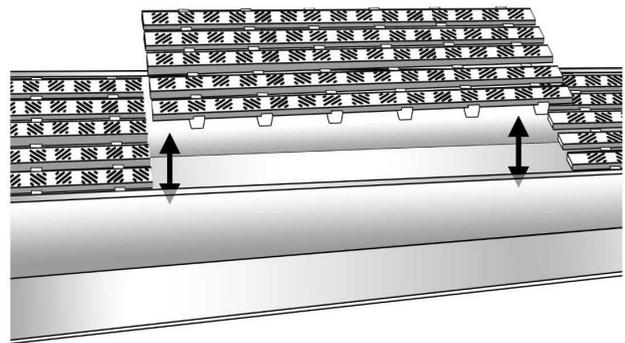


Fig-4

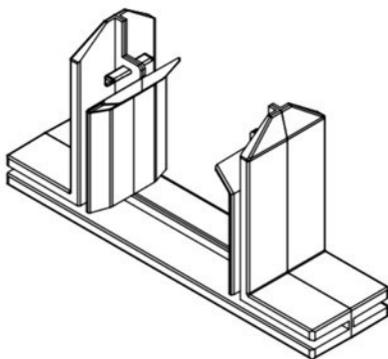


Fig-5

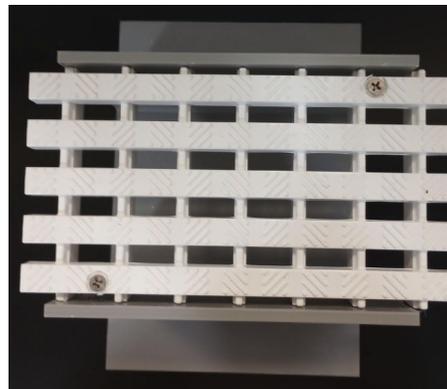


Fig-6

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For Inquiries or Assistance please call: (888)-509-8128