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# Weather Sentry TC1000 Series Shelter / Seal

*All Models*

## Installation Instructions



Do not install this product unless you read and understand the Warnings and Installation Instructions contained in this manual. Failure to do so could result in serious injury or death.

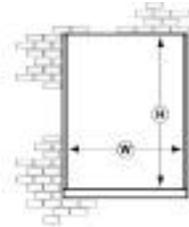
# WEATHER SENTRY TC1000 SERIES – INSTALLATION:

## Installation Instructions

### CHECK FIRST:

To ensure proper measurement to accommodate the TC1000 you are installing, check the following:

A. Check the door height and width to verify that your side pads and head frame are properly sized.

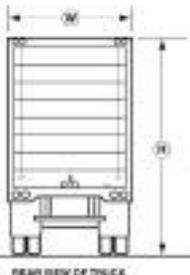


B. It is recommended that the head pad or side pads be compressed not more than a maximum of 6"; nor more than 45% of its total projection. A minimum of 4" compression is advised to compensate for vehicles not evenly spotted against the building.

C. If the approach is not level, check to make sure the side pads taper to accommodate the angle of the truck. Also on a tapered drive, follow Step "B" for both the top and bottom of the seal, allowing for the recommended compression.



D. Check the heights of incoming carriers that will be utilized at this door, to ensure that the head pad is of proper elevation to accommodate the height range of these vehicles.



E. In 95% of installations, the inside edge of the face of the side pads should be 7'-6" I.D. If achieving the 7'-6" dimension requires extending the wood backing of the side pads into the door opening width, use the following recommendation:

Weld or anchor a structural angle the full length of the side jambs, not allowing any portion of the wood backing to be exposed into the door opening. It is appropriate to lag through the leg of the angle into the back of the wood approximately 1" from the edge of the board.

### **⚠ WARNING**

Improper lifting or attachment of seal/shelter can cause serious injury or death.

Installation requires:

- A structurally sound building wall,
- Barricades to keep people away from the area,
- Proper attachment of anchoring devices,
- Two or more people,
- A lifting device capable of lifting at least 500 lbs. at the installation angle.

If you have questions, contact your supervisor, your local McGuire™ distributor or McGuire™ at 1-800-624-8473.

1. Identify yourself to the appropriate on-site personnel. Follow instructions as to: 1) the location where tools, equipment and material can be stored on site; and 2) the installation sequence for each opening. Review all job site safety programs and procedures to ensure your compliance. Obtain all appropriate permits required to perform this work.

2. Review all drawings and specifications related to this portion of the project with particular attention to special instructions and/or conditions. Verify the facility conditions to the appropriate dock related dimensions illustrated on Fairborn Drawing. (Door width and height, dock height, distance between openings, bumper projections, drive grade and etc.)

3. Clear installation area of all unnecessary obstructions. Cordon off vehicular and pedestrian traffic.

4. Unpack dock seal components, checking completeness of all bills of ladings, bills of materials and installation instructions. Additionally check basic unit dimensions to assure that the correct units have arrived at the job site (length, widths, projections, etc.).

5. Center the L side pad assemblies (guide stripes at bottom; exhaust vents toward exterior) on the opening width, maintaining a 134" O.D. (Blockouts may be provided for side pads-refer to Dwg's/order.) The bottom of the side pads should be positioned 3/4" above the outward threshold of the opening. Be sure to keep the side pads square and plumb. Secure each side pad assembly to building face utilizing six (6) angle mounting brackets, 5/16" x 2" long lag screws, 5/16" flat washers and 3/8" x 4" long stud anchors.

6. If provided, apply 1/4" thick closed cell gasket x 134" long to rear of metal head frame assembly. Position metal head frame assembly, square and level with 1" clearance, over side pads and against building face with compressible gasket at rear (head pad brackets toward the front). Position gusseted steel support brackets at both ends under head frame and secure frame to brackets, making sure support brackets are plumb and parallel with side pads, with (4 or 6) 5/16-18 x 2 1/2" bolts, (8 or 12) 5/16" flat washers and (4 or 6) 5/16-18 hex lock nuts. (Refer to Figure #2.) Secure head frame and brackets to wall with (10 or 12) 3/8" x 4" long stud anchors through holes provided. (Refer to Figure #3.)

7. Check condition of above assembled components to assure they are plumb, square and level. Shim or adjust as required.

8. Position head pad/pivot assembly between side pads and against angle brackets at the front, underside of head frame (flat side of head pad toward front of unit). Secure head pad/pivot assembly to head frame with (12) 5/16"-18 x 2 1/2" long hex head bolts, (24) 5/16" flat washers and (12) 5/16"-18 hex lock nuts. (Refer to Figure #4.)

9. Position top edge of the rear head curtain assembly to the rear, top edge of the 2" x 6" that is attached to the underside of head frame. Secure with 1" roofing nails spaced approximately 6" on center. (Refer to Figure #4.)

10. Screw attach the center portion of the front pleat assembly to the head pad wood frame with (12) #12x1 1/4" long phillips pan head wood screws and 1/4" flat washers spaced approximately 6" on center. Position the right and left end pleat assemblies on the front of the unit, aligning the top edge mounting holes with those in the head frame. (Refer to Figure #5.)

11. Position front head curtain assembly to front of unit, aligning holes with those in head frame. (Refer to Figure #5.) NOTE: Be sure the front head curtain is installed to cover the top corner of the left and right pleat assemblies described in Item #10.

12. Position aluminum trim angle to front of unit aligning holes with those in head frame, front head curtain and pleat assemblies. Secure all aforementioned components to front of head frame with (9) 5/16"-18 x 2 1/2" long hex head bolts, (18) 5/16" flat washers and (9) 5/16"-18 lock nuts. Be sure bolts are positioned through the holes provided in each component. (Refer to Figure #5.)

13. Attached rubber tarp straps (1 each end of unit) to grommeted holes in lower outside corners of end pleat assemblies and crimp S-hooks. Pull tarp straps rearward and down at exterior and attach S-hooks to side pad wood frames with 5/16" x 2" hex head lag screws and 5/16" fender washers. (Refer to Figure #5 and Dwg.)

14. Apply silicone based caulking over gasket material at the top exterior of the head frame. Bead size to be adequate for adhesion to the continuous rear portion of the head frame and adjacent wall surface while providing adequate coverage to the gasket material.

15. Clean unit and clear area of all cartons, scrap and debris generated as a result of the Dock Seal installation.

NOTE: When installing the anchors described within, be sure to set anchors in accordance with the anchor manufacturer's recommended installation procedures to ensure maximum holding strength.

### SUGGESTED MOUNTING METHODS:

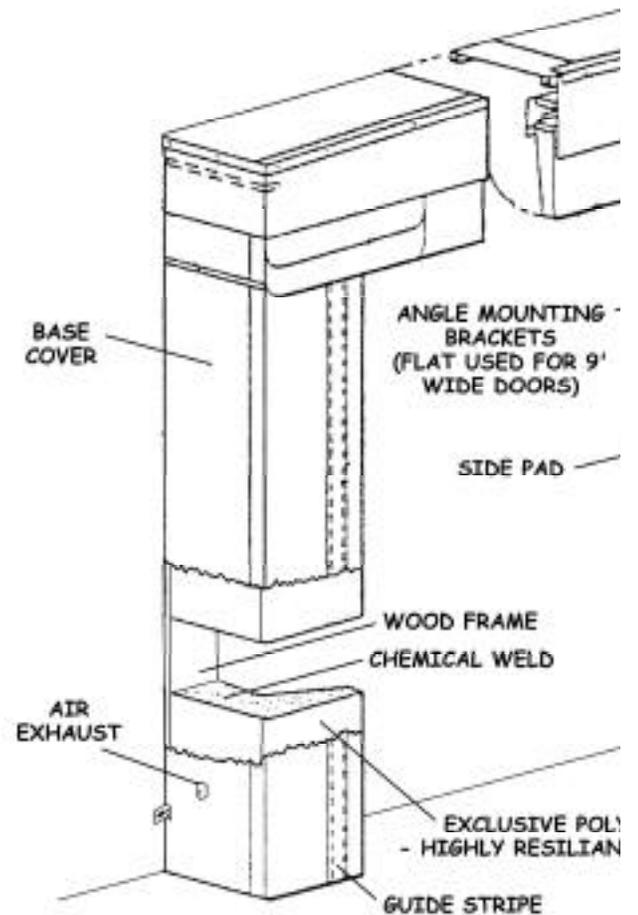
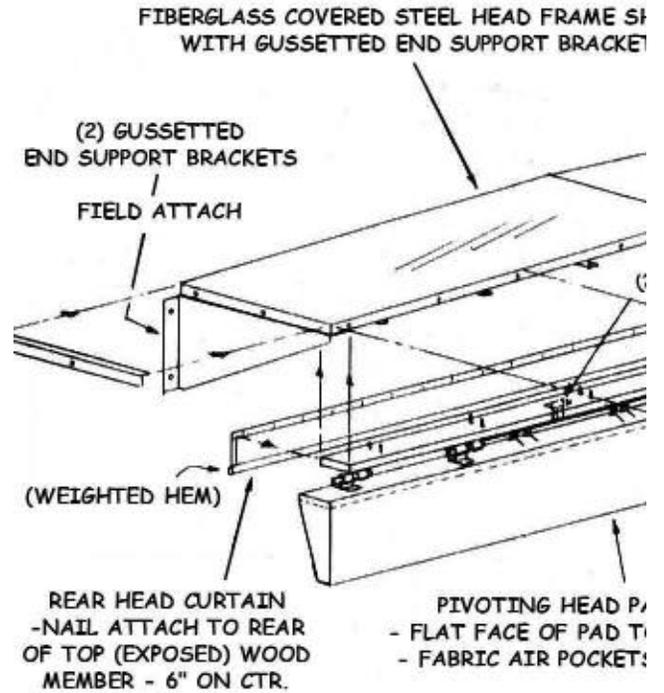
(Mounting anchors not included.)

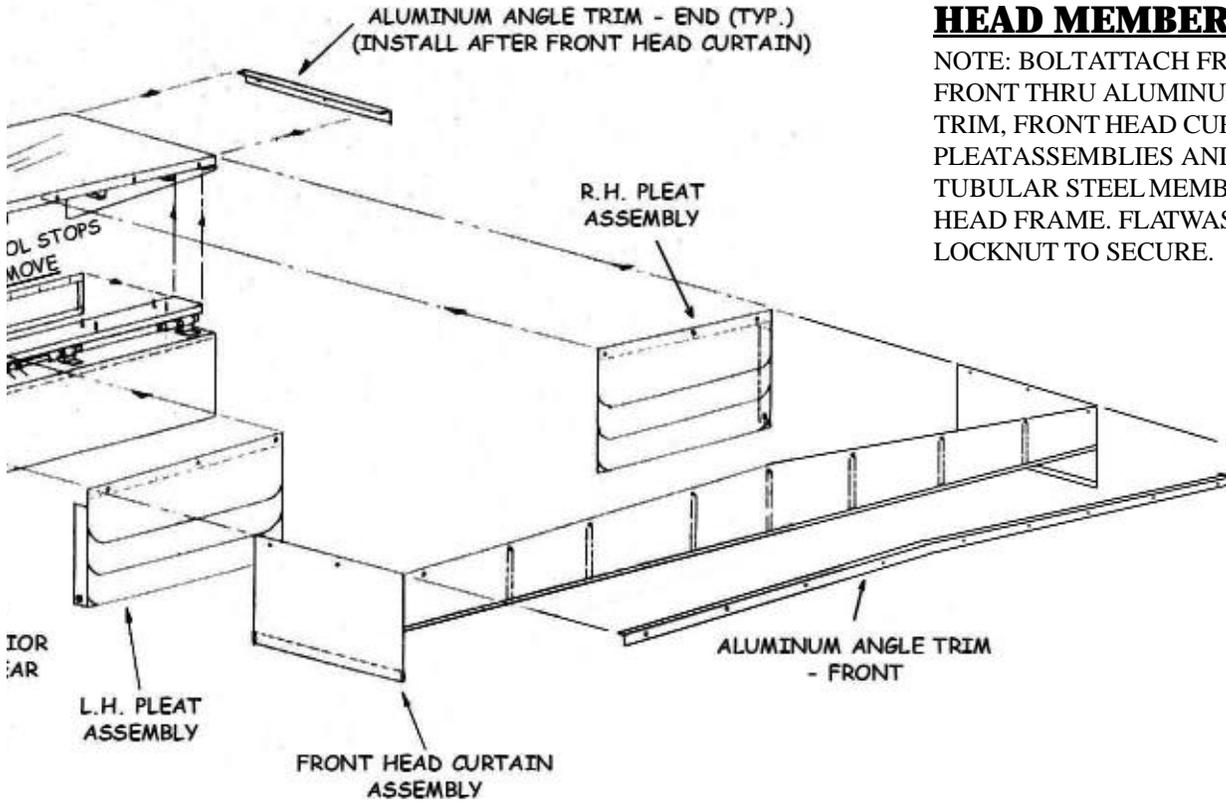
**Concrete or Brick Wall:** Try to hit mortar joints. Use 1/2" or 3/8" x 3" expansion anchors. use through-bolt fastening if anchors will not hold, 3/8" threaded rod is recommended.

**Precast Concrete:** Same as above.

**Metal Skin Building:** Through-bolt fastening as above. Use a back-up plate (steel or wood) to support bolts or anchor through existing building horizontal and vertical structural members when possible.

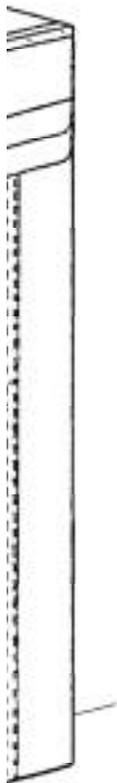
**NOTE:** Dock Seals must have adequate bumper protection, 4" minimum.



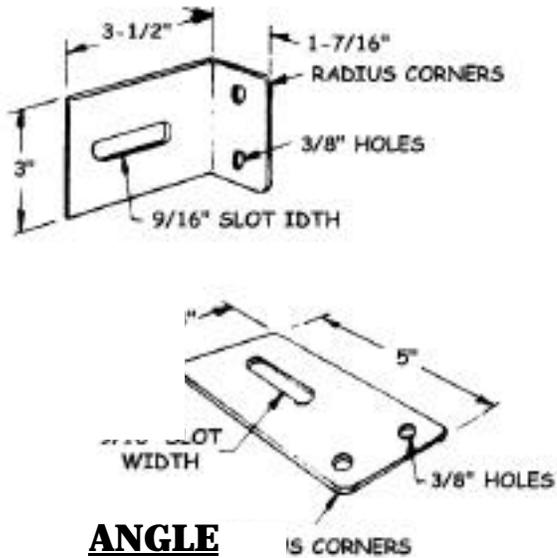


**EXPLODED VIEW**  
**HEAD MEMBER**

NOTE: BOLT ATTACH FROM THE FRONT THRU ALUMINUM ANGLE TRIM, FRONT HEAD CURTAIN, PLEAT ASSEMBLIES AND FRONT TUBULAR STEEL MEMBER OF HEAD FRAME. FLATWASHER AND LOCKNUT TO SECURE.

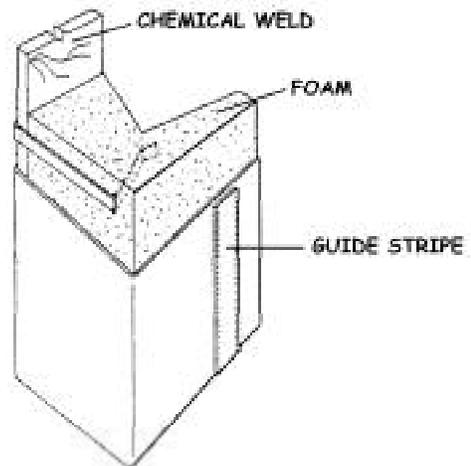


DAM  
MEMORY



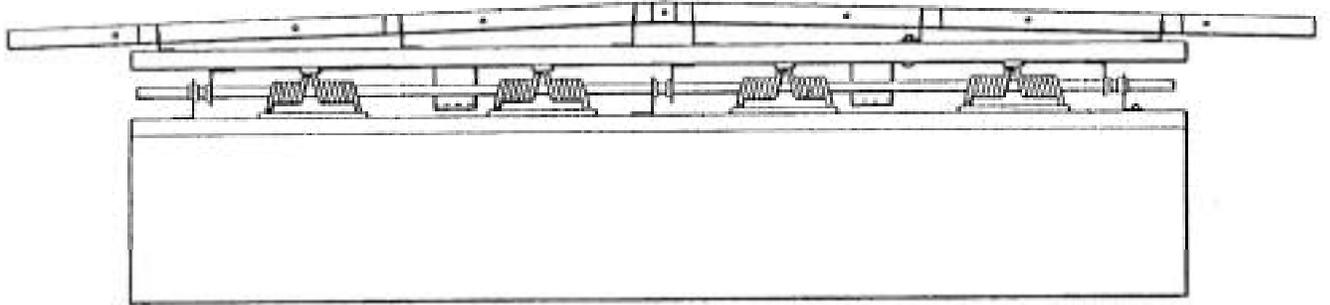
**ANGLE**  
**AND FLAT**  
**MOUNTING**  
**BRACKETS**

**PAD SECTION**

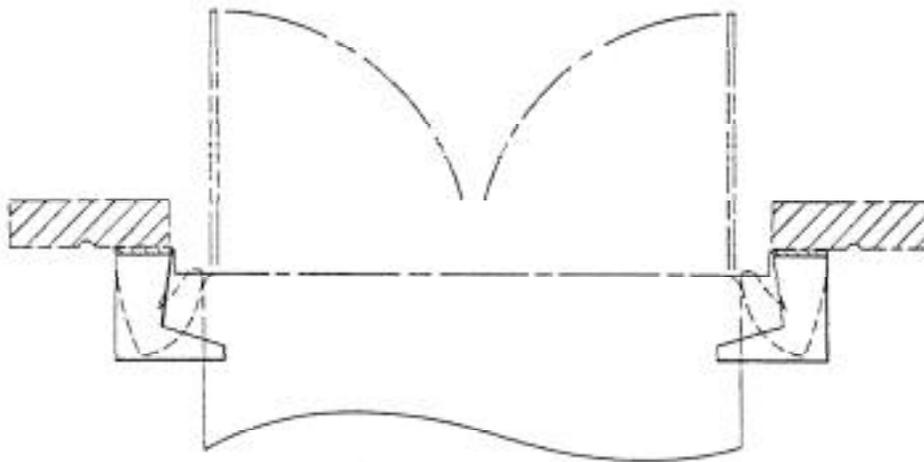


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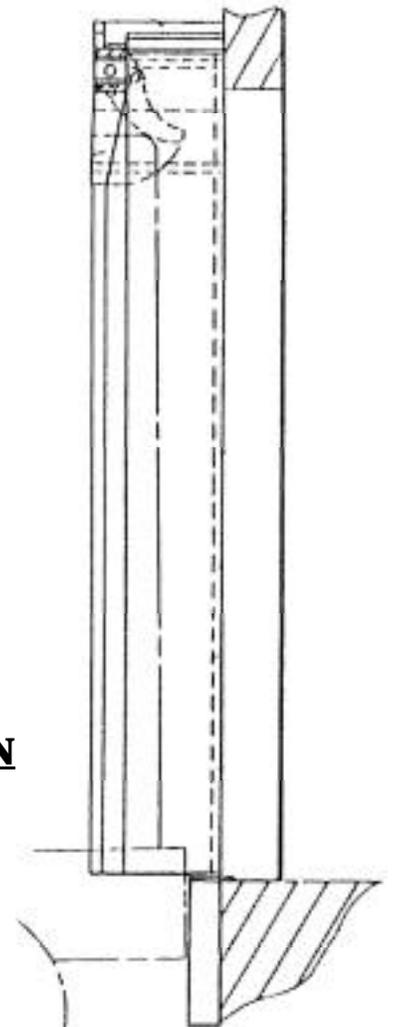
**DETAIL FRONT VIEW - HEAD PAD ASSEMBLY**



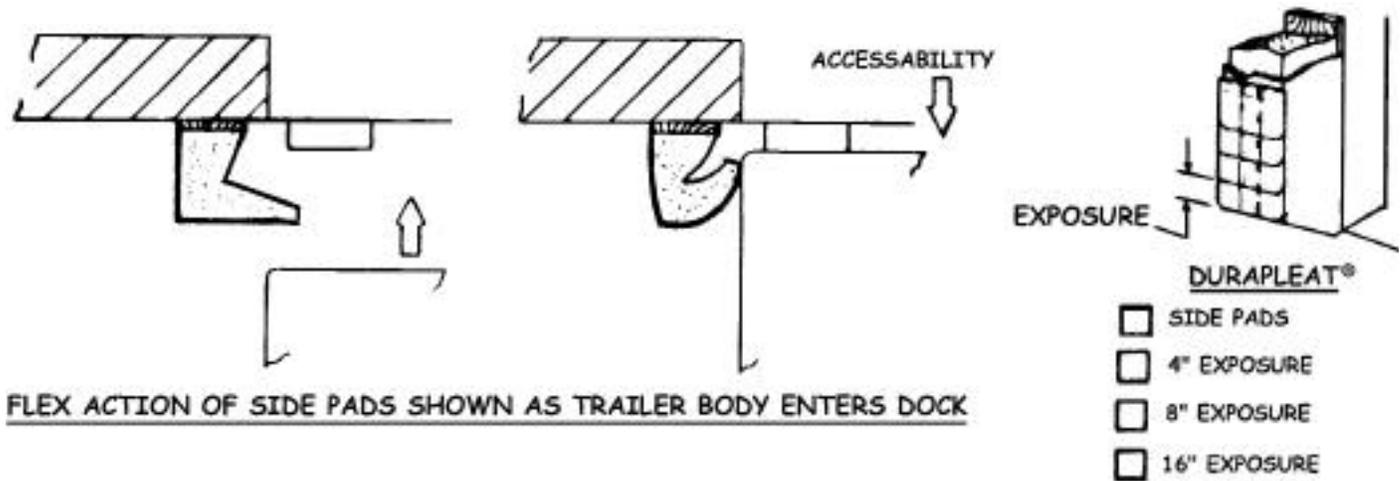
**TOP SECTION VIEW**



**SIDE ELEVATION**



## OPTIONAL DURAPLEAT®:



FLEX ACTION OF SIDE PADS SHOWN AS TRAILER BODY ENTERS DOCK

## WARRANTY:

McGuire™ warranties extend only to the product itself.

McGuire™ DISCLAIMS all liability arising out of the workmanship, methods and materials used by the installer. WARRANTIES, whether express or implied, relating to workmanship and materials used in connection with the installation of McGuire™ products are specifically DISCLAIMED.

Note: Improper installation of anchoring devices or installation into aged or unsound concrete could result in premature product wear, product failure, or property damage.

TC1000 Rain Shelter are custom built for each door. installation procedures are the same for all TC1000 Rain Shelter regardless of size.

We have asked your local representative to present this information to you, inspect the installation, and familiarize you and your employees with proper operation of the product.

McGuire™ expressly warrants that any Dock Seal or Shelter sold by it will be free from defects in material and workmanship under normal use for a period of one (1) year from the earlier of, 1) 60 days after date of shipment, or 2) the date of installation of the Dock Seal or Shelter by the original purchaser, provided the product is properly applied and installed. In the event the Dock Seal or Shelter proves defective in material or workmanship, McGuire™ will, at its option:

1. Replace the Dock Seal or Shelter or the defective portion thereof without charge to the purchaser; or 2. Alter or repair the Dock Seal or Shelter, on site or elsewhere, without charge to the purchaser.

The warranty stated in the preceding paragraph is that expressed by McGuire™ AND IS IN LIEU OF ALL GUARANTEES AND WARRANTIES, EXPRESSED OR IMPLIED BY ANYONE OTHER THAN MCGUIRE™. The warranty does not cover any failure caused by improper installation or application, abuse, or negligence. Parts requiring replacement due to damage resulting from vehicle impact, abuse or improper installation are not covered by this warranty. Seller assumes no responsibility or liability for (1) consequential damages of any kind which result from the use or misuse of the Dock Seal or Shelter, (2) damage or failure resulting from the use of unauthorized replacement parts or modification of the Dock Seal or Shelter; (3) damage resulting from the misuse of the Dock Seal or Shelter. **THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.**

McGuire™ warranties extend only to the Dock Seal or Shelter itself.

### McGUIRE™ DISCLAIMS:

- ALL WARRANTIES, whether expressed or implied, relating to workmanship and materials used in connection with the installation or maintenance of the Dock Seal or Shelter.
- All liability arising out of the workmanship, methods and materials used in the installation or maintenance of the Dock Seal or Shelter.
- All liability for premature product wear, product failure, property damage or bodily injury arising from improper installation or maintenance of the Dock Seal or Shelter.