DSS & WM SERIES
DOCK SEALS
ALL MODELS

TUFSTEEL® GALVANIZED STEEL FRAMING
INSTALLATION INSTRUCTIONS

FORM NO: 4F-DSS-3/18
PART NO: T31622

WARNING
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.
TABLE OF CONTENTS

Introduction .......................................................................................................................................................... 2
Safety Signal Words ......................................................................................................................................... 2
Safety Practice .................................................................................................................................................. 3
Preparation ...................................................................................................................................................... 3
Parts List
  Standard Components & Part Numbers ....................................................................................................... 4
  Suggested Mounting Method ....................................................................................................................... 5
Installation ...................................................................................................................................................... 6
Wood Block Out Installation .......................................................................................................................... 8-9
Exploded View .............................................................................................................................................. 13
Attention & Maintenance ............................................................................................................................... 14
Warranty information .................................................................................................................................... 15
Distributor Information ................................................................................................................................... 16

INTRODUCTION

Welcome and thank you for choosing a dock seal/shelter from KELLEY®.

This Installation Manual contains information that you need to safely install, operate and maintain the dock seal/shelter. Please keep and read this Installation Manual before installing and using your new dock seal/shelter.

SAFETY SIGNAL WORDS

You may find safety signal words such as DANGER, WARNING, CAUTION, or NOTICE throughout this Installation Manual. Their use is explained below:

⚠️ This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

⚠️ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ WARNING Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ CAUTION Indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

Notice is used to address practices not related to personal injury.
SAFETY PRACTICES

⚠️ WARNING ⚠️

Read these safety practices before installing, operating or servicing the DSS®. Failure to follow these safety practices could result in death or serious injury.

READ AND FOLLOW THE OPERATING INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE DSS® If you do not understand the instructions, ask your supervisor to assist you or contact the factory.

Be certain to follow the instructions in this manual.

 NOTICE

KELLEY DSS series are custom built for each application. Installation procedures are the same for all DSS Series, regardless of size. Installation requires two people and a forklift truck or similar device to lift and position the pads.

Improper installation of anchoring devices or installation into aged or unsound concrete or other faulty or inadequate building wall construction could result in serious injury or death, as well as premature product wear, product failure, or property damage.

Inadequate lifting equipment or unsafe practices can cause a load to fall unexpectedly. Make sure lifting devices are in good condition and have a rated capacity of at least 500 lbs. at the lifting angle that they are being used. Never allow anyone to stand on or near the dock seal/shelter component when it is lifted or placed. Failure to follow this warning can allow the dock seal to fall, tip or swing into people causing serious injury or death. Safety standards as described in this installation manual must be followed at all times. If you have any questions, contact your supervisor or your local Kelley distributor for assistance.

Assembly of components should be performed in such a way so as to maintain cleanliness of equipment before final installation. Lifting equipment to be determined by installer (man lift and forklift or boom lift are typical). Wear safety glasses, gloves, hard hats, safety shoes and all necessary protective clothing.

PREPARATION

Remove all of the contents from the containers and check for damage. If any of the contents show signs of damage, contact your local sales representative.
### STANDARD PARTS LIST PER DOCK DOOR

<table>
<thead>
<tr>
<th>(1) LEFT &amp; (1) RIGHT SIDE PAD</th>
<th>(1) HEAD PAD</th>
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<tbody>
<tr>
<td>SIDE PADS SHOWN WITH OPTIONAL PLEATS</td>
<td>(36) TEK SCREWS</td>
</tr>
<tr>
<td>![Side Pad Diagram]</td>
<td>![TEK Screw Diagram]</td>
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<td>P/N T31163</td>
<td>P/N T70009-12</td>
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### MOUNTING BRACKETS

(BRACKETS VARY BASED ON APPLICATION)

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<thead>
<tr>
<th>1-1/2&quot; OFFSET</th>
<th>ANGLE BRACKET</th>
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<td>T31104</td>
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<tr>
<th>BLOCK-OUT BRACKET</th>
<th>HEAD PAD BRACKET</th>
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### SUPPLIED BY OTHERS

<table>
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<tr>
<th>CAULK GUN</th>
<th>SILICONE CAULK</th>
<th>WALL ANCHOR</th>
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<tr>
<td>![Caulk Gun]</td>
<td>![Silicone Caulk]</td>
<td>![Wall Anchor]</td>
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**DOCK SEAL SIDE PAD MOUNTING BRACKETS**

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<td><strong>1-1/2&quot; OFFSET</strong></td>
<td><strong>ANGLE BRACKET</strong></td>
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<td><strong>WELD OR FASTEN (BY OTHERS)</strong></td>
<td><strong>TEK SCREWS</strong></td>
</tr>
<tr>
<td><strong>TEK SCREWS</strong></td>
<td><strong>MOUNTING ANCHOR (BY OTHERS)</strong></td>
</tr>
<tr>
<td><strong>BEVELED SIDE PAD</strong></td>
<td><strong>BEVELED SIDE PAD</strong></td>
</tr>
<tr>
<td><strong>HOLES FOR TEK SCREW, TYP.</strong></td>
<td><strong>HOLES FOR TEK SCREW, TYP.</strong></td>
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<tr>
<td><strong>3/4&quot;Ø HOLE FOR ANCHOR</strong></td>
<td><strong>3/4&quot;Ø HOLE FOR ANCHOR</strong></td>
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<td><strong>TEK SCREWS</strong></td>
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<td><strong>BEVELED SIDE PAD</strong></td>
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<tr>
<td><strong>HOLES FOR TEK SCREW, TYP.</strong></td>
<td><strong>HOLES FOR TEK/WOOD SCREW, TYP.</strong></td>
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**SUGGESTED MOUNTING METHODS:**

1) **CONCRETE, BRICK, & PRECAST:** 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

2) **METAL SKIN BUILDING:** THROUGH-BOLT FASTENING REQUIRED. USE STEEL OR WOOD BACK-UP PLATE TO SUPPORT BOLTS, OR ANCHOR THROUGH EXISTING BUILDING HORIZONTAL & VERTICAL STRUCTURAL MEMBERS
1. DETERMINE CENTERLINE OF DOOR OPENING & MARK LOCATION ON DOCK FLOOR

2. DETERMINE HEAD PAD WIDTH. (MULTIPLE HEAD PAD STYLES SHOWN)
3. DETERMINE 1/2 OF HEAD PAD WIDTH & MARK DISTANCE ON EITHER SIDE OF CENTERLINE

4. ATTACH THREE (3) SETS OF MOUNTING BRACKETS PER SIDE PAD. BRACKET STYLE WILL VARY. REFERENCE DOCK SEAL SIDE PAD MOUNTING BRACKET DRAWINGS
WOOD BLOCK OUT INSTALLATION INSTRUCTIONS

YOUR UNIT MAY NOT CONTAIN THIS OPTION. CONTINUE TO FOLLOW THE REMAINING INSTALLATION PROCESS.

A. ATTACH THREE (3) SETS OF MOUNTING BRACKETS PER BLOCK OUT (BRACKET STYLE MAY VARY)

B. MOUNT WOOD BLOCK OUTS TO WALL
C. BOTTOM OF WOOD BLOCK OUTS ARE INSTALLED AT DOCK FLOOR LEVEL OR AT TOP OF RAISED DOCK BUMPERS

D. MOUNT SIDE PADS TO WOOD BLOCK OUTS. FASTEN SIDE PADS TO WOOD BLOCK OUTS WITH WOOD LAG SCREWS
5. MOUNT SIDE PADS TO WALL

**SIDE PADS INSTALLED AT DOCK/BUMPER HEIGHT**

**SIDE PADS INSTALLED AT RAISED BUMPER HEIGHT**

6. BOTTOM OF SIDE PADS ARE INSTALLED AT DOCK FLOOR LEVEL (FIGURE 1) OR AT TOP OF RAISED DOCK BUMPERS (FIGURE 2) (PLEATS NOT SHOWN FOR CLARITY)
7. ATTACH TWO (2) HEAD PAD BRACKETS TO HEAD PAD AT BOTTOM CORNERS. ATTACH THREE (3) ANGLE BRACKETS TO TOP OF HEAD PAD.

8. CENTER HEAD PAD ABOVE SIDE PADS, APPLY TIGHTLY AGAINST WALL.
9. ANCHOR HEAD PAD TO BUILDING WALL IN FIVE (5) LOCATIONS

10. CAULK BETWEEN TOP OF HEAD PAD AND WALL. SILICONE CAULK RECOMMENDED. (BY OTHERS)
EXPLODED VIEW

THE EXPLODED VIEW BELOW DISPLAYS A STANDARD FOAM HEAD PAD DOCK SEAL UNIT. YOUR UNIT MAY CONTAIN OPTIONS WHICH ARE NOT DISPLAYED BELOW.

1. FOAM HEAD PAD
2. LEFT SIDE PAD
3. RIGHT SIDE PAD
4. HEAD PAD BRACKET
5. ANGLE BRACKET
6. INSIDE SIDE PAD INSTALLATION BRACKET (STYLE MAY VARY)
7. OUTSIDE SIDE PAD INSTALLATION ANGLE BRACKET
ATTENTION & MAINTENANCE

Periodic inspections of all dock Seal/Shelter is recommend. Inspect for damage and contact your local distributor if parts are needed to be replaced.

PERIODIC MAINTENANCE CHECKLIST

☐ Rips/tears in head pad, side pads & pleat fabric
☐ Water leaks due to insufficient caulk
☐ Ensure side pads are plumb to building wall
☐ Ensure all fasteners & brackets are in position
☐ *
☐ *
☐ *
☐ *

POST INSTALLATION CHECK LIST

☐ Ensure all anchors & fasteners are secure correctly
☐ Confirm the head pad is caulked at building adequately
☐ Confirm caulk is applied all around the exterior of unit
☐ Ensure all brackets are installed correctly

NOTES

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MARCH 2019 T31622 – DSS® ©2018 4FRONT ENTREMATIC
LIMITED WARRANTY INFORMATION

THIS LIMITED WARRANTY IS KELLEY’s SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THE DOCK SHELTER AND IS IN LIEU OF ANY OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED.

Kelley® warrants that this DOCK SEAL/SHELTER will be free from flaws in material and workmanship under normal use for a period of (1) year from the earlier of 1) 60 days after the date of initial shipment by Kelley®, or 2) the date of installation of the DOCK SEAL/SHELTER by the original purchaser, provided that the owner maintains and operates the DOCK SEAL/SHELTER in accordance with this User’s Manual.

In the event that this DOCK SEAL/SHELTER proved deficient in material or workmanship within the applicable Limited Warranty period, owner shall so notify Kelley® and Kelley® will, at its option:

1. Replace the DOCK SEAL/SHELTER, or the deficient portion(s) thereof, without charge to the owner (excluding any cost of removal or reinstallation which shall be the sole responsibility of the owner); or

2. Alter or repair the DOCK SEAL/SHELTER, on site or elsewhere, without charge to the owner

This Limited Warranty does not cover any failure caused by improper installation, abuse, improper operation, negligence, or failure to maintain and adjust the DOCK SEAL/SHELTER properly. Parts requiring replacement due to damage resulting from vehicle impact, abuse, or improper operation and not covered by the warranty.

Kelley® DISCLAIMS ANY RESPONSIBILITY OR LIABILITY FOR ANY LOSS OR DAMAGE OF ANY KIND (INCLUDING WITHOUT LIMITATION, DIRECT, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES, OR LOST PROFITS OR LOST PRODUCTION) arising out of or related to the use, installation or maintenance of the DOCK SEAL/SHELTER (including premature product wear, product failure, property damage or bodily injury resulting from use of unauthorized replacement parts or modification of the DOCK SEAL/SHELTER). Kelley®’s sole obligation with regard to a DOCK SEAL/SHELTER that is claimed to be deficient in material or workmanship shall be as set forth in this Limited Warranty. This Limited Warranty will be null and void if the original purchaser does not notify Kelley®’s warranty department within ninety (90) days after the product deficiency is discovered.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, INCLUDING, BUT NOT LIMITED TO, A WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH KELLEY® HEREBY DISCLAIMS.
Please direct questions about your DOCK SEAL/SHELTER to your local distributor.

Your local KELLEY® distributor is:

4Front Entrematic
W183 S8253 Racine Avenue
Muskego, WI 53150
Tel: (262) 679-6200
Email: Seals.Shelters@entrematic.com