ARMORGUARD
HEAD CURTAIN
DOCK SEALS

TUFSTEEL® GALVANIZED STEEL FRAMING
INSTALLATION INSTRUCTIONS

FORM NO: 4F-ADS-HC-6/17
PART NO: T31638

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.
Kelley ARMORGUARD HEAD CURTAIN dock seals are custom built for each application. Installation procedures are the same for all ARMORGUARD HEAD CURTAIN dock seals regardless of size. Installation requires two people and a forklift truck or similar device to lift and position the pads.

**WARNING**

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 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.

**WARRANTY**

4Front Entrematic, expressly warrants that this Dock Seal or Shelter will be free from defects in materials and workmanship under normal use for a period of three (3) years from the earlier of 1) 60 days after date of shipment by 4Front Entrematic, 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 this Dock Seal or Shelter proves defective in material or workmanship, 4Front Entrematic 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 the sole and exclusive warranty for this product AND IS IN LIEU OF ALL OTHER GUARANTEES AND WARRANTIES, EXPRESS OR IMPLIED. This 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, EXPRESS 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

AquaShield, Dock Stufr, Flexframe, Foamside, Kelley, TS-55, Tufseal, Tufsteel, Wearmaster, and WeatherAll are registered trademarks of 4Front Entrematic.
## STANDARD PARTS LIST PER DOCK DOOR

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Image</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) LEFT &amp; (1) RIGHT SIDE PAD</td>
<td><img src="image" alt="Left and Right Side Pad" /></td>
<td>T31163</td>
</tr>
<tr>
<td>(1) HOOD</td>
<td><img src="image" alt="Hood" /></td>
<td>T74002-40</td>
</tr>
<tr>
<td>(1) 2x4</td>
<td><img src="image" alt="2x4" /></td>
<td>T31224</td>
</tr>
<tr>
<td>2x4 LENGTH = UNIT WIDTH</td>
<td></td>
<td>T70009-12</td>
</tr>
<tr>
<td>(24) TEK SCREWS</td>
<td><img src="image" alt="Tek Screws" /></td>
<td></td>
</tr>
<tr>
<td>(40) ROOFING NAILS</td>
<td><img src="image" alt="Roofing Nails" /></td>
<td></td>
</tr>
<tr>
<td>(8) SCREWS W/ WASHER</td>
<td><img src="image" alt="Screws with Washer" /></td>
<td></td>
</tr>
<tr>
<td>(12) WOOD SCREW FOR OPTIONAL BLOCK-OUT BRKT</td>
<td><img src="image" alt="Wood Screw" /></td>
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</tbody>
</table>

## MOUNTING BRACKETS
(BRACKETS & QUANTITY VARY BASED ON APPLICATION)

<table>
<thead>
<tr>
<th>Offset</th>
<th>Image</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot; OFFSET</td>
<td><img src="image" alt="1-1/2 Offset Bracket" /></td>
<td>T31149</td>
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<tr>
<td>ANGLE BRACKET</td>
<td><img src="image" alt="Angle Bracket" /></td>
<td>T31104</td>
</tr>
<tr>
<td>FLAT BRACKET</td>
<td><img src="image" alt="Flat Bracket" /></td>
<td>T31103</td>
</tr>
<tr>
<td>BLOCK-OUT BRACKET</td>
<td><img src="image" alt="Block-Out Bracket" /></td>
<td>T31179</td>
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</tbody>
</table>

## PULL ROPE HARDWARE

<table>
<thead>
<tr>
<th>Hardware Item</th>
<th>Image</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4) EYE SCREW</td>
<td><img src="image" alt="Eye Screw" /></td>
<td>T71001</td>
</tr>
<tr>
<td>(1) S-HOOK</td>
<td><img src="image" alt="S-Hook" /></td>
<td>T31267</td>
</tr>
<tr>
<td>(1) STEEL O-RING</td>
<td><img src="image" alt="Steel O-Ring" /></td>
<td>T31287</td>
</tr>
<tr>
<td>(1) ROPE - 63' LONG</td>
<td><img src="image" alt="Rope" /></td>
<td>T31288</td>
</tr>
<tr>
<td>(2) TEK SCREW</td>
<td><img src="image" alt="Tek Screw" /></td>
<td>T70001</td>
</tr>
<tr>
<td>(1) 6&quot; CLEAT</td>
<td><img src="image" alt="Cleat" /></td>
<td>T78006</td>
</tr>
</tbody>
</table>

## SUPPLIED BY OTHERS

<table>
<thead>
<tr>
<th>Item</th>
<th>Image</th>
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<tbody>
<tr>
<td>CAULK GUN</td>
<td><img src="image" alt="Caulk Gun" /></td>
</tr>
<tr>
<td>SILICONE CAULK</td>
<td><img src="image" alt="Silicone Caulk" /></td>
</tr>
<tr>
<td>WALL ANCHOR</td>
<td><img src="image" alt="Wall Anchor" /></td>
</tr>
<tr>
<td><strong>DOCK SEAL SIDE PAD MOUNTING BRACKETS</strong></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td><strong>1-1/2&quot; OFFSET BRACKET</strong></td>
<td><strong>ANGLE BRACKET</strong></td>
</tr>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>FLAT BRACKET</strong></td>
<td><strong>BLOCK-OUT BRACKET</strong></td>
</tr>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**Details:**
- **1-1/2" OFFSET BRACKET:**
  - Weld or fasten (by others)
  - Tek screws
  - Beveled side pad
- **ANGLE BRACKET:**
  - Angle bracket
  - Tek screws
  - Mounting anchor (by others)
  - Beveled side pad
- **FLAT BRACKET:**
  - Flat bracket
  - Weld or fasten (by others)
  - Tek screws
  - Beveled side pad
  - 3/4"Ø hole for anchor
- **BLOCK-OUT BRACKET:**
  - Block-out bracket
  - Wood screws
  - Tek screws
  - Beveled side pad
  - Holes for tek wood screw, typ.
- **Holes for tek screws, typ.**
1. Determine centerline of door opening & mark location on dock floor.


5. MOUNT SIDE PADS TO WALL.

6. BOTTOM OF SIDE PADS ARE INSTALLED AT DOCK FLOOR LEVEL OR AT TOP OF RAISED DOCK BUMPERS.

7. SIDE PAD TO BE PARALLEL TO DOOR JAMB & PERPENDICULAR TO DOCK FLOOR.

8. MOUNT 2x4 TO WALL. POSITION TIGHTLY AGAINST TOP OF SIDE PADS & FLUSH WITH OUTSIDE EDGES OF SIDE PADS. ANCHOR TO WALL IN 3 LOCATIONS. REFERENCE THE "3 POINT" PULL ROPE SYSTEM, STEP A ON PAGE 8.

10. Place support pipe on top front edge of side pads. Fabric hood shown over top, front & sides of side pads & 2x4. Make sure hood is snug but not tight.

11. Fasten hood to 2x4 & outside edge of side pads. Space fasteners approximately 6" apart.

12. Caulk between top of hood and wall. Silicone caulk recommended (by others). Ref. step D on page 8 to complete "3 point" pull rope system.
"3 POINT" PULL ROPE SYSTEM

A
MEASURE SPACE BETWEEN GROMMET TABS. LOCATED INSIDE OF HOOD.

B
MOUNT THREE (3) EYE SCREWS TO 2x4 AT DISTANCE "X".
MOUNT ONE (1) EYE SCREW IN LINE W/ SIDE PAD BACKING &
ATTACH S-HOOK TO EYE SCREW AND O-RING TO S-HOOK.
CRIMP S-HOOK CLOSED. (AS SHOWN)

C
MOUNT 6" CLEAT TO BUILDING OR SIDE PAD BACKING.
*REF. STEP 9 ON PAGE 7 TO COMPLETE HOOD ATTACHMENT.

D
(SIDE VIEW)
A) TIE END OF ROPE TO GROMMET TAB
B) THREAD ROPE THROUGH O-RING
C) THREAD ROPE THROUGH EYE SCREW ON 2x4
D) THREAD ROPE THROUGH O-RING CONNECTED TO S-HOOK
E) THREAD ROPE TO 6" CLEAT, LEAVE APPROXIMATELY 12"
OF ROPE BELOW CLEAT. REPEAT FOR OTHER TWO (2)
ROPE. NOTE: ROPE IS SUPPLIED AS CONTINUOUS LENGTHS

E
WITH SLACK OUT OF SYSTEM, TIE ROPE TOGETHER TO
ENSURE SMOOTH OPERATION.