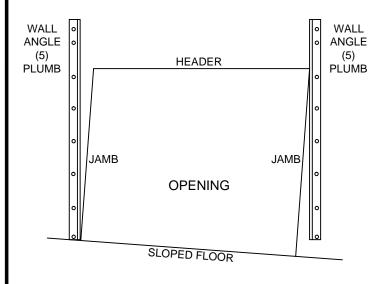


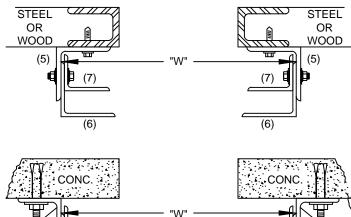
STEP #1 - PREPARATION

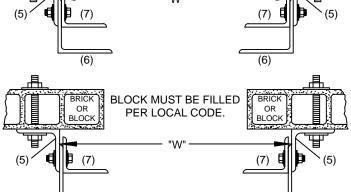
- 1.1 CHECK THE HEIGHT AND WIDTH OF THE DOOR OPENING.
- 1.2 CHECK IF THE DOOR JAMBS ARE PLUMB.
- 1.3 CHECK IF THE FLOOR AND HEADER ARE LEVEL.
- 1.4 CHECK THE DIMENSIONS FOR APPROPRIATE SIDE ROOM AND HEADROOM REQUIREMENTS.
- 1.5 THE WALL ANGLES IN STEP 2 MUST BE INSTALLED PLUMB AND LEVEL TO EACH OTHER EVEN IF JAMB IS NOT PLUMB AND FLOOR IS SLOPED.



STEP #2 - SET WALL ANGLES

2.1 EVENLY SPACE WALL ANGLES OUTSIDE OPENING SO THAT THE DISTANCE BETWEEN THEM IS AS SHOWN BELOW.





| GUIDE TYPE | "W" DIMENSION |
|-----------------------------------|------------------|
| TYPE 2, 3 & 4 NON-WINDLOCK GUIDES | BARREL + 1" |
| TYPE 2, 3, 4 & 5 WINDLOCK GUIDES | BARREL + 1. 3/4" |
| TYPE 6 & 7 WINDLOCK GUIDES | BARREL + 2" |

(6)

(6)

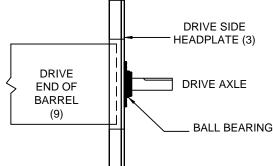
2.2 FASTEN THE WALL ANGLES TO JAMBS ACCORDING TO THE FOLLOWING TABLE

| ЈАМВ | FASTENER (SUPPLIED BY OTHERS) |
|----------------|--|
| STEEL | DRILL .339 (R) DIA. HOLES FOR 3/8" SELF TAPS. DRILL 5/16" DIA. HOLES AND TAP 1/2"-13 FOR 1/2" BOLT OR WELDMENTS. |
| WOOD | LAG BOLTS 3/8" x 3. 1/2" |
| CONCRETE | EXPANSION BOLTS, 1/2" x 3" |
| BLOCK OR BRICK | THRU-BOLTS OR ALL THREAD 1/2" |

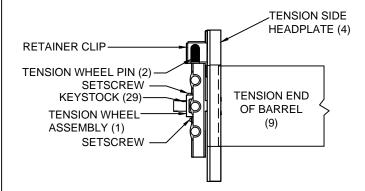
** FOR WINDLOAD CERTIFIED DOORS REFER TO SHOP DRAWINGS FOR ANCHOR TYPE AND FREQUENCY

STEP #3 - INSTALL HEADPLATE ONTO BARRELL ASSEMBLY

3.1 FIT DRIVE SIDE HEADPLATE ONTO DRIVE AXLE OF BARREL AS SHOWN BELOW. THE DRIVE END OF THE BARREL HAS NO AXLE BEARING AND NO COUNTERBALANCE SPRING. THE DRIVE SIDE HEADPLATE HAS A BALL BEARING ATTACHED. LEFT END OF BARREL IS PAINTED RED REGARDLESS OF WHETHER IT IS DRIVE SIDE OR THE SPRING TENSION SIDE.



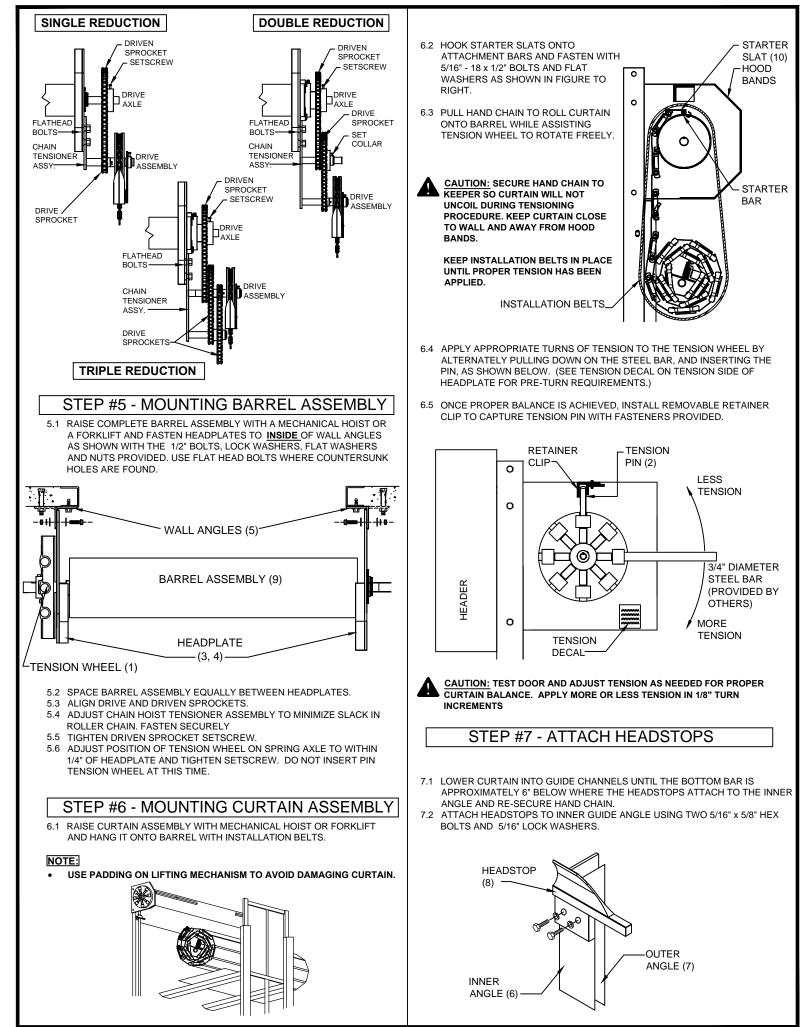
- 3.2 FIT TENSION SIDE HEADPLATE ONTO SPRING AXLE AS SHOWN BELOW. THE SPRING END OF THE BARREL HAS A BEARING AND A COUNTERBALANCE SPRING. THE SPRING SIDE HEADPLATE HAS NO BEARING.
- 3.3 FIT TENSION WHEEL ONTO SPRING AXLE AND INSERT KEYSTOCK. DO NOT INSERT LOCKING PIN OR TIGHTEN SETSCREW AT THIS TIME.



CAUTION: KEYSTOCK MUST BE COMPLETELY INSERTED INTO THE TENSION WHEEL OR DAMAGE AND INJURY COULD OCCUR.

STEP #4 - INSTALL DRIVE ASSEMBLY

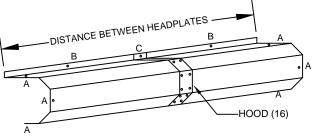
- 4.1 FIT DRIVEN SPROCKET ONTO DRIVE AXLE. DO NOT INSERT KEY INTO KEYWAY OR TIGHTEN SETSCREW AT THIS TIME.
- 4.2 FASTEN DRIVE ASSEMBLY TO DRIVE SIDE HEADPLATE WITH TWO 1/2" FLAT HEAD BOLTS, FLATWASHERS AND NUTS. DO NOT TIGHTEN BOLTS AT THIS TIME.
- 4.3 SLIDE HEADPLATE UP AGAINST BARREL SPACER AND ALIGN DRIVEN SPROCKET WITH DRIVE SPROCKET.
- 4.4 INSTALL ROLLER CHAIN ONTO DRIVE AND DRIVEN SPROCKETS AND SECURE MASTER LINK.
- 4.5 INSERT KEY COMPLETELY INTO DRIVEN SPROCKET KEYWAY.



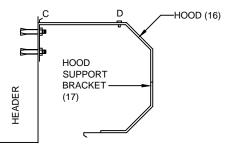
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STEP #8 - INSTALL HOOD

- 8.1 IF THE PROVIDED HOOD IS A SINGLE PIECE, THEN SKIP TO INSTRUCTION 8.4.
 8.2 IF HOOD WAS PROVIDED IN TWO OR MORE PIECES, THEN OVERLAP THE
- PIECES SO THAT THE COMBINED HOOD LENGTH IS EQUAL TO THE MEASURED DISTANCE BETWEEN THE HEADPLATES AS SHOWN.



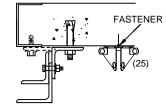
- 8.3 FASTEN OVERLAPPED AREA TOGETHER WITH TWO ROWS OF TEK SCREWS ON EACH FLAT SECTION.
- 8.4 ONCE ASSEMBLED, RAISE HOOD WITH MECHANICAL HOIST OR FORKLIFT AND FASTEN TO HEADPLATES AND HEADER
- 8.5 FASTEN HOOD TO HEADPLATES AT LOCATION "A" WITH 1/4" SELF TAPPING SCREWS.
- 8.6 FASTEN HOOD TO HEADER AT "B".
- 8.7 HOODS OVER 16' LONG REQUIRE ANOTHER FASTENER AT LOCATION "C".
- 8.8 WHEN HOOD SUPPORT BRACKETS ARE SUPPLIED, INSTALL AT LOCATIONS
 "B" OR "C" AS NEEDED. FASTEN HOOD TO BRACKET AT LOCATION "D".
 HOOD SUPPORT BRACKETS ARE PROVIDED TO ACHIEVE MAXIMUM SPAN BETWEEN SUPPORTS OF 8'.



STEP #9 - HAND CHAIN & CHAIN KEEPER

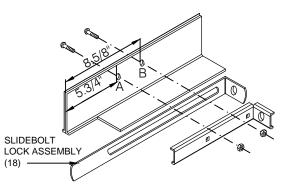
9.1 ADJUST HAND CHAIN LENGTH SO THAT IT HANGS BETWEEN 1' AND 2' OFF THE GROUND.
9.2 FASTEN HAND CHAIN LATCH APPROXIMATELY 4' OFF THE

GROUND.



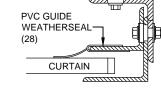
STEP #10 - SLIDE BOLT LOCK (OPTIONAL)

- 10.1 REMOVE BOLTS AT LOCATIONS "A" AND "B" FOR FACTORY-PREPARED DOORS.
- 10.2 IF NOT FACTORY PREPARED, REMOVE EXISTING BOLTS AND DRILL 5/16" HOLES AT SPECIFIED LOCATIONS.
- 10.3 ALIGN SLIDE LOCK AND STEEL COVER WITH HOLES.
- 10.4 FASTEN THE SLIDE LOCK MECHANISM WITH THE SUPPLIED HARDENED STEEL CARRIAGE BOLTS.
- 10.5 FOR EXTRA SECURITY, WELDING THE COVER TO THE BOTTOM ANGLE IS RECOMMENDED



STEP #11 - GUIDE WEATHERSEAL (OPTIONAL)

- 11.1 ATTACH PVC GUIDE WEATHERSEAL TO THE OUTER ANGLE PER DIAGRAM.
- 11.2 IF GUIDE WEATHERSEAL IS ORDERED FROM FACTORY, THE BOTTOM BAR WILL BE NOTCHED TO ACCOMMODATE WEATHERSEAL ON THE EXTERIOR (OUTER ANGLE).
- 11.3 IF PVC GUIDE WEATHERSEAL IS ADDED TO THE DOOR AT A LATER TIME, THE BOTTOM BAR WILL NEED TO BE NOTCHED AN ADDITIONAL 1" PER SIDE TO ACCOMMODATE THE GUIDE WEATHERSEAL.



STEP #12 - BETWEEN JAMB MOUNT (OPTIONAL)

- 12.1 CHECK THE HEIGHT AND WIDTH OF THE OPENING.
- 12.2 CHECK IF THE JAMBS ARE PLUMB.

CHECK IF THE FLOOR

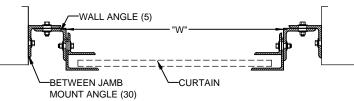
AND HEADER ARE

GUIDE TYPE

LEVEL.

12.3

- 12.4 THE BETWEEN JAMB ANGLES MUST BE INSTALLED PLUMB AND LEVEL TO EACH OTHER EVEN IF JAMB IS NOT PLUMB AND FLOOR IS SLOPED.
- 12.5 EVENLY SPACE WALL ANGLES INSIDE OPENINGS SO THAT THE DISTANCE BETWEEN THEM IS SHOWN BELOW.



| GUIDE DIMENSION - BETWEEN JAMBS | | | | | | |
|---------------------------------|---------|---------|---------|---------|----------|--|
| TYPE | A | В | С | D | E | |
| 2 | 6" | 3. 1/4" | 4" | 2. 1/2" | 1. 1/8" | |
| 3 | 6. 3/4" | 3. 3/4" | 4. 1/2" | 3" | 1. 1/8" | |
| 4 | 6. 3/4" | 3. 3/4" | 4. 1/2" | 3" | 1. 1/8" | |
| 2 (W/L) | 6. 1/2" | 3. 1/2" | 4. 1/4" | 2. 3/4" | 1. 7/16" | |
| 3 (W/L) | 6. 3/4" | 4" | 4. 3/4" | 3. 1/4" | 1. 7/16" | |
| 4 (W/L) | 6. 3/4" | 4" | 4. 3/4" | 3. 1/4" | 1. 7/16" | |
| 5M (W/L) | 6. 3/4" | 4. 1/8" | 4. 7/8" | 3. 3/8" | 1. 9/16" | |
| 5 & 5IM (W/L) | 6. 3/4" | 4. 1/8" | 4. 7/8" | 3. 3/8" | 1. 9/16" | |
| 6 (W/L) | 9. 1/2" | 6. 7/8" | 7. 5/8" | 5. 7/8" | 1. 9/16" | |
| 6M (W/L) | 9. 1/2" | 7" | 7.3/4" | 6" | 1. 9/16" | |
| 7 (W/L) | 11" | 7. 1/4" | 8" | 5. 1/2" | 1. 9/16" | |
| 7M (W/L) | 11" | 7. 1/4" | 8" | 5. 1/2" | 1. 9/16" | |

BETWEEN JAMB OPENING DEDUCTIONS = THEORETICAL "NEW" OPENING

| 2 | 12" |
|----------|----------|
| 3 | 13. 1/2" |
| 4 | 13. 1/2" |
| 2 (W/L) | 13" |
| 3 (W/L) | 13. 1/2" |
| 4 (W/L) | 13. 1/2" |
| 5M (W/L) | 13. 1/2" |
| 5 (W/L) | 13. 1/2" |
| 6 (W/L) | 19" |
| 7 (W/L) | 22" |