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# INSTALLATION INSTRUCTIONS

## 400 & 600 SERIES

USE JANUS INTERNATIONAL GROUP PARTS ONLY - ALL OTHERS SHALL VOID WARRANTY

**IMPORTANT REMARKS** ALL JANUS PRODUCTS MUST BE INSTALLED BY A LICENSED, QUALIFIED PROFESSIONAL DOOR COMPANY TO QUALIFY FOR OUR WARRANTY. INSTALLATION WITHOUT PROPER TOOLS AND KNOWLEDGE CAN RESULT IN PERSONAL INJURY. THIS PAMPHLET IS DESIGNED TO ASSIST A PROFESSIONAL IN THE INSTALLATION OF JANUS 400 & 600 SERIES ROLLING STEEL SERVICE DOORS. SAFETY IS FOREMOST. INSTALLATION SHOULD BE EXECUTED BY LICENSED, QUALIFIED DOOR PROFESSIONALS. INSPECT ALL OF THE SHIPPED PARTS AND ACCOUNT FOR EVERYTHING BEFORE COMMENCING ANY WORK. FOR QUESTIONS AND TECHNICAL ASSISTANCE, CONTACT JANUS CUSTOMER SUPPORT AT (770) 562-2850.

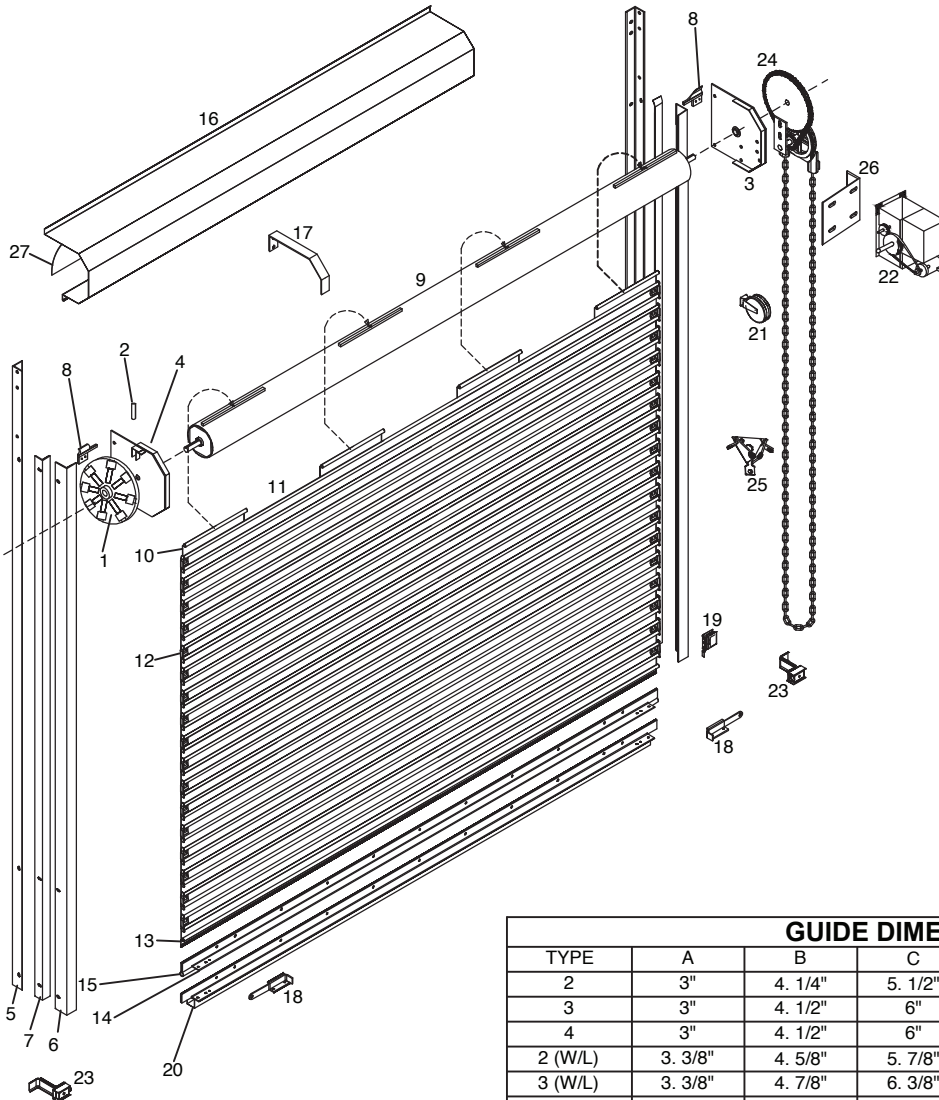
### WARNING

**MOVING DOOR CAN CAUSE SERIOUS INJURY OR DEATH  
KEEP CLEAR OF OPENING WHILE DOOR IS MOVING.**

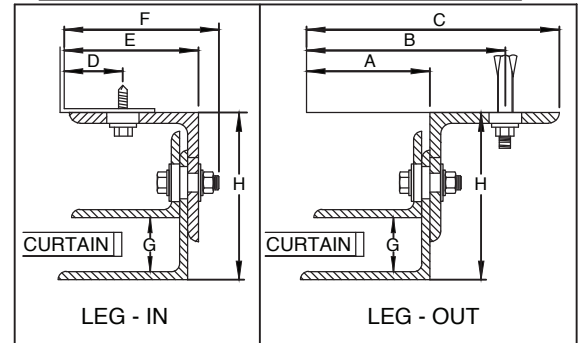


### SAFETY INSTRUCTIONS

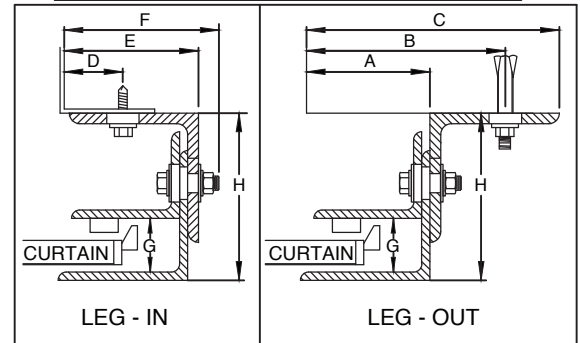
- DO NOT STAND OR WALK UNDER MOVING DOOR. KEEP DOOR IN FULL VIEW AND FREE OF OBSTRUCTION WHILE OPERATING.
  - DO NOT ALLOW CHILDREN TO OPERATE THE DOOR OR AUTOMATIC OPERATOR.
  - REPAIRS OR ADJUSTMENTS SHOULD BE MADE BY A TRAINED SERVICE PERSON USING PROPER TOOLS AND INSTRUCTIONS.
  - TO AVOID INJURY, DO NOT PUT FINGERS BETWEEN DOOR AND GUIDES.
  - READ OWNER'S MANUAL FOR YOUR DOOR AND OPERATOR FOR MORE INFORMATION.
- CAUTION:** USE CORRECT LIFTING PROCEDURES AND EQUIPMENT DURING INSTALLATION OF THIS PRODUCT TO AVOID INJURY OR DAMAGE.



### GUIDE DETAIL (NON-WINDLOCK)



### GUIDE DETAIL (WINDLOCK)



\* REFER TO STEP 2, PAGE 2 FOR DIFFERENT JAMB APPLICATIONS

### GUIDE DIMENSION - FACE OF WALL

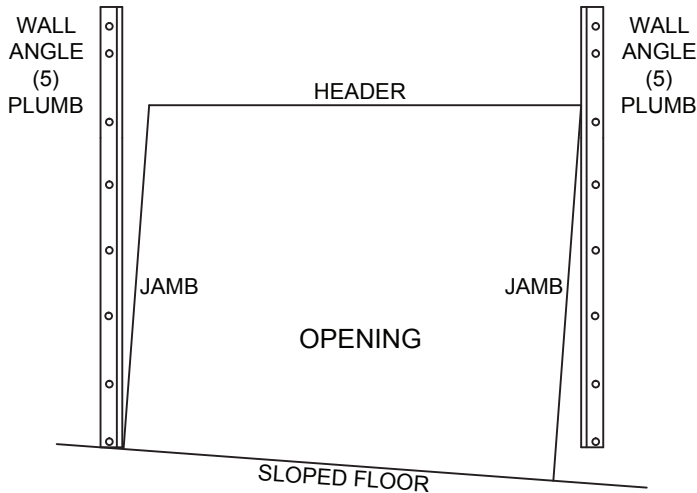
TYPE	A	B	C	D	E	F	G	H
2	3"	4. 1/4"	5. 1/2"	1. 15/16"	3. 3/16"	3. 13/16"	1. 1/8"	3. 3/4"
3	3"	4. 1/2"	6"	1. 11/16"	3. 3/16"	3. 13/16"	1. 1/8"	4. 1/4"
4	3"	4. 1/2"	6"	1. 3/4"	3. 1/4"	3. 13/16"	1. 1/8"	4. 1/4"
2 (W/L)	3. 3/8"	4. 5/8"	5. 7/8"	2. 5/16"	3. 9/16"	4. 3/16"	1. 7/16"	4"
3 (W/L)	3. 3/8"	4. 7/8"	6. 3/8"	2. 1/16"	3. 9/16"	4. 3/16"	1. 7/16"	4. 1/2"
4 (W/L)	3. 3/8"	4. 7/8"	6. 3/8"	2. 1/8"	3. 5/8"	4. 3/16"	1. 7/16"	4. 1/2"
5M (W/L)	3. 3/8"	4. 7/8"	6. 3/8"	2. 1/16"	3. 9/16"	4. 3/16"	1. 9/16"	4. 5/8"
5 & 5IM (W/L)	3. 3/8"	4. 7/8"	6. 3/8"	2. 1/8"	3. 5/8"	4. 3/8"	1. 9/16"	4. 5/8"
6 (W/L)	4. 1/4"	6"	7. 3/4"	2. 7/8"	4. 9/16"	5. 1/4"	1. 9/16"	7. 1/4"
6M (W/L)	4. 1/4"	6"	7. 3/4"	2. 7/8"	4. 3/4"	5. 5/8"	1. 9/16"	7. 1/4"
7 (W/L)	5"	7. 1/2"	10"	3. 1/8"	5. 5/8"	6. 7/16"	1. 9/16"	7. 1/4"
7M (W/L)	5"	7. 1/2"	10"	3. 1/8"	5. 5/8"	6. 7/16"	1. 9/16"	7. 1/4"

### PARTS LIST

1	VARIABLES	TENSION WHEEL ASSEMBLY	11	VARIABLES	SLAT (FLAT OR CURVED)	21	VARIABLES	TAKE-UP REEL (OPTIONAL)
2	VARIABLES	TENSION WHEEL PIN	12	VARIABLES	ENDLOCK / WINDLOCK	22	VARIABLES	ELECTRIC OPERATOR (OPTIONAL)
3	VARIABLES	HEADPLATE (DRIVE SIDE)	13	VARIABLES	BOTTOM SLAT	23	VARIABLES	PHOTO EYES (OPTIONAL)
4	VARIABLES	HEADPLATE (TENSION SIDE)	14	VARIABLES	BOTTOM BAR	24	VARIABLES	REDUCTION DRIVE HOIST
5	VARIABLES	WALL ANGLE	15	450703	ASTRAGAL BULB	25	420405	HAND CHAIN KEEPER
6	VARIABLES	INNER ANGLE	16	VARIABLES	HOOD	26	440002	MOTOR MOUNT BRACKET (OPTIONAL)
7	VARIABLES	OUTER ANGLE	17	VARIABLES	HOOD SUPPORT BRACKET (AS NEEDED)	27	610623	HOOD BAFFLE (OPTIONAL)
8	VARIABLES	REMOVABLE HEADSTOPS	18	280106	SLIDE BOLT LOCKS ASSEMBLY(OPTIONAL)	28	400103	GUIDE WEATHER SEAL (OPTIONAL)
9	VARIABLES	BARREL ASSEMBLY	19	VARIABLES	INTERLOCK SWITCH (OPTIONAL)	29	VARIABLES	KEYSTOCK
10	VARIABLES	STARTER SLAT	20	VARIABLES	SAFETY EDGE (OPTIONAL)	30	VARIABLES	BETWEEN JAMB ANGLE (OPTIONAL)

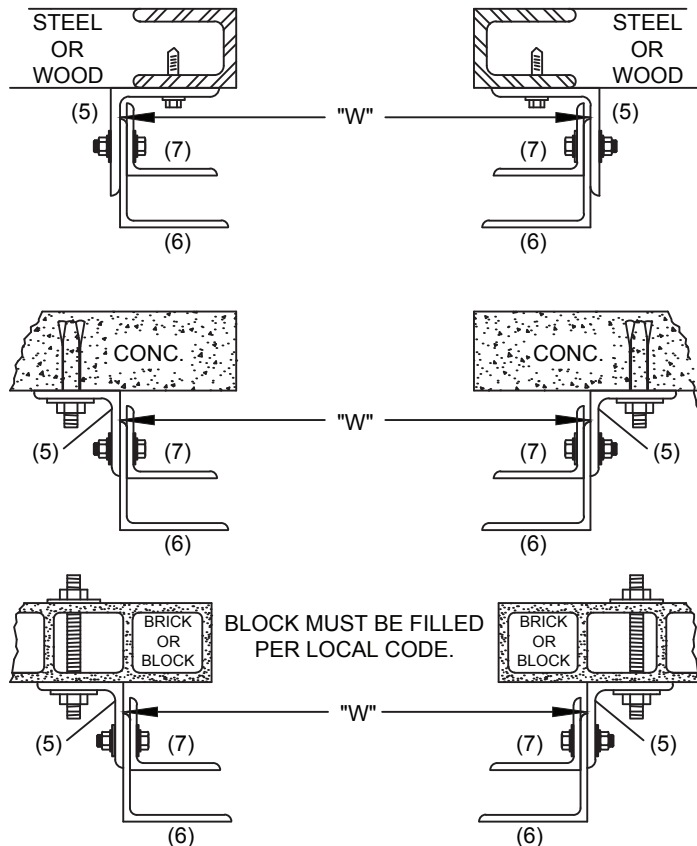
## STEP #1 - PREPARATION

- 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"

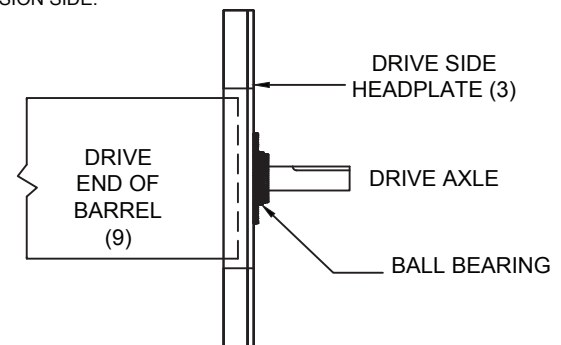
- 2.2 FASTEN THE WALL ANGLES TO JAMBS ACCORDING TO THE FOLLOWING TABLE

JAMB	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"

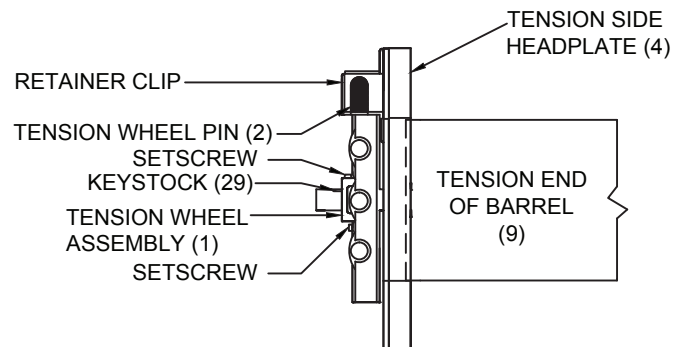
\*\* FOR WINDLOAD CERTIFIED DOORS REFER TO SHOP DRAWINGS FOR ANCHOR TYPE AND FREQUENCY

## 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.



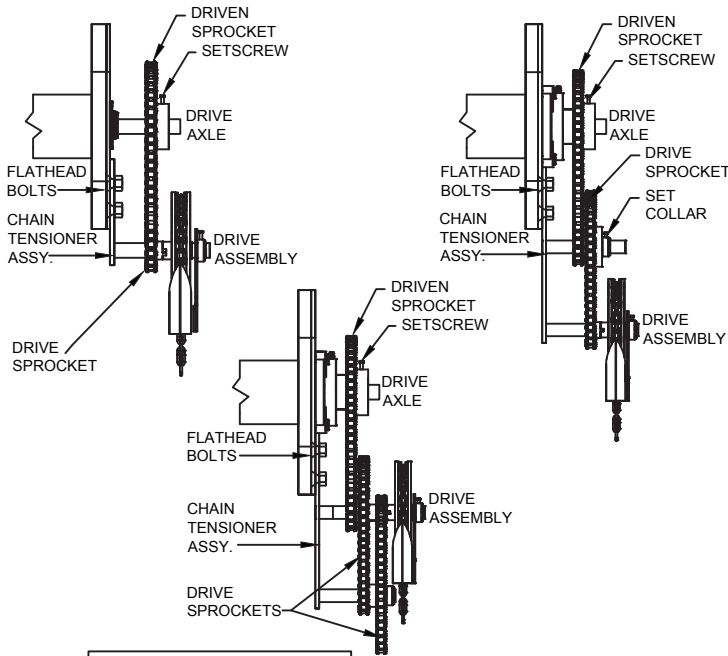
**CAUTION:** KEYSTOCK MUST BE COMPLETELY INSERTED INTO THE TENSION WHEEL OR DAMAGE AND INJURY COULD OCCUR.

## 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.

### SINGLE REDUCTION

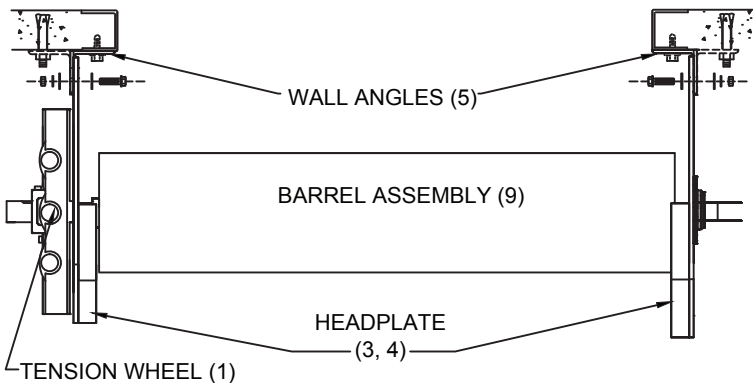
### DOUBLE REDUCTION



### TRIPLE REDUCTION

## STEP #5 - MOUNTING BARREL ASSEMBLY

5.1 RAISE COMPLETE BARREL ASSEMBLY WITH A MECHANICAL HOIST OR A FORKLIFT AND FASTEN HEADPLATES TO **INSIDE** OF WALL ANGLES AS SHOWN WITH THE 1/2" BOLTS, LOCK WASHERS, FLAT WASHERS AND NUTS PROVIDED. USE FLAT HEAD BOLTS WHERE COUNTERSUNK HOLES ARE FOUND.



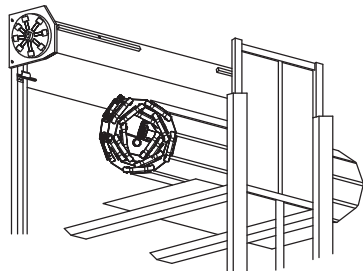
- 5.2 SPACE BARREL ASSEMBLY EQUALLY BETWEEN HEADPLATES.
- 5.3 ALIGN DRIVE AND DRIVEN SPROCKETS.
- 5.4 ADJUST CHAIN HOIST TENSIONER ASSEMBLY TO MINIMIZE SLACK IN ROLLER CHAIN. FASTEN SECURELY
- 5.5 TIGHTEN DRIVEN SPROCKET SETSCREW.
- 5.6 ADJUST POSITION OF TENSION WHEEL ON SPRING AXLE TO WITHIN 1/4" OF HEADPLATE AND TIGHTEN SETSCREW. DO NOT INSERT PIN TENSION WHEEL AT THIS TIME.

## STEP #6 - MOUNTING CURTAIN ASSEMBLY

6.1 RAISE CURTAIN ASSEMBLY WITH MECHANICAL HOIST OR FORKLIFT AND HANG IT ONTO BARREL WITH INSTALLATION BELTS.

#### NOTE:

- USE PADDING ON LIFTING MECHANISM TO AVOID DAMAGING CURTAIN.



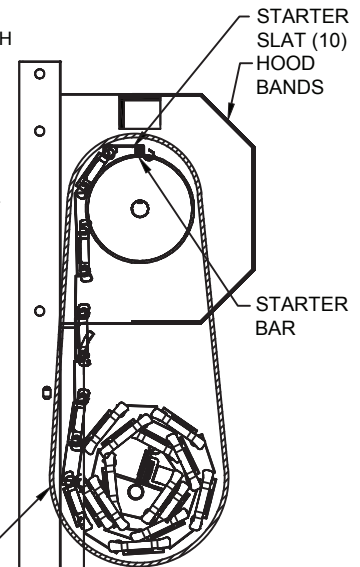
- 6.2 HOOK STARTER SLATS ONTO ATTACHMENT BARS AND FASTEN WITH 5/16" - 18 x 1/2" BOLTS AND FLAT WASHERS AS SHOWN IN FIGURE TO THE RIGHT.
- 6.3 PULL HAND CHAIN TO ROLL CURTAIN ONTO BARREL WHILE ASSISTING TENSION WHEEL TO ROTATE FREELY.



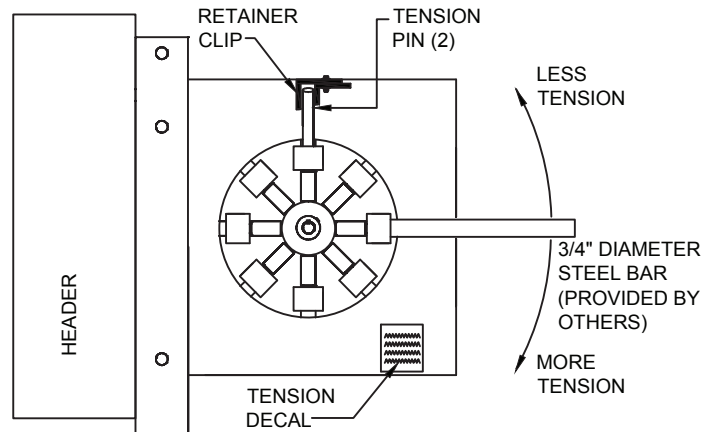
**CAUTION: SECURE HAND CHAIN TO KEEPER SO CURTAIN WILL NOT UNCOIL DURING TENSIONING PROCEDURE. KEEP CURTAIN CLOSE TO WALL AND AWAY FROM HOOD BANDS.**

**KEEP INSTALLATION BELTS IN PLACE UNTIL PROPER TENSION HAS BEEN APPLIED.**

INSTALLATION BELTS



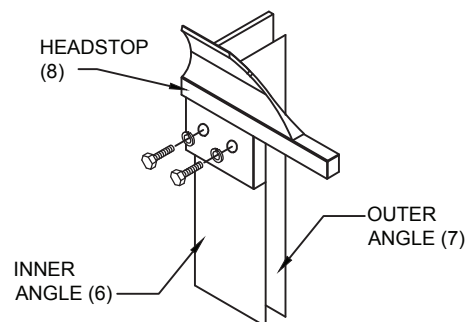
- 6.4 APPLY APPROPRIATE TURNS OF TENSION TO THE TENSION WHEEL BY ALTERNATELY PULLING DOWN ON THE STEEL BAR, AND INSERTING THE PIN, AS SHOWN BELOW. (SEE TENSION DECAL ON TENSION SIDE OF HEADPLATE FOR PRE-TURN REQUIREMENTS.)
- 6.5 ONCE PROPER BALANCE IS ACHIEVED, INSTALL REMOVABLE RETAINER CLIP TO CAPTURE TENSION PIN WITH FASTENERS PROVIDED.



**CAUTION: TEST DOOR AND ADJUST TENSION AS NEEDED FOR PROPER CURTAIN BALANCE. APPLY MORE OR LESS TENSION IN 1/8" TURN INCREMENTS**

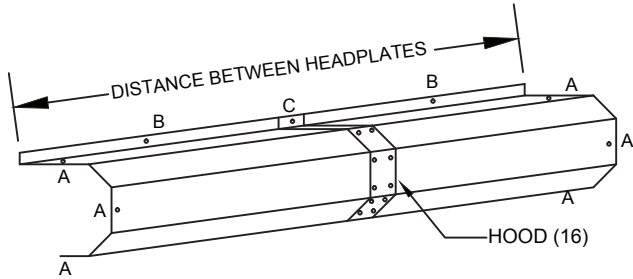
## STEP #7 - ATTACH HEADSTOPS

- 7.1 LOWER CURTAIN INTO GUIDE CHANNELS UNTIL THE BOTTOM BAR IS APPROXIMATELY 6" BELOW WHERE THE HEADSTOPS ATTACH TO THE INNER ANGLE AND RE-SECURE HAND CHAIN.
- 7.2 ATTACH HEADSTOPS TO INNER GUIDE ANGLE USING TWO 5/16" x 5/8" HEX BOLTS AND 5/16" LOCK WASHERS.

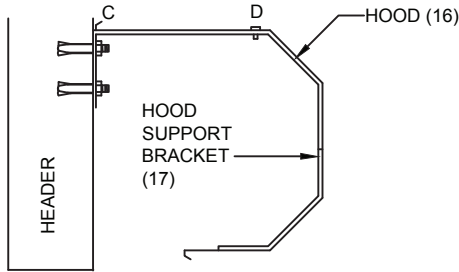


## STEP #8 - INSTALL HOOD

- 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.

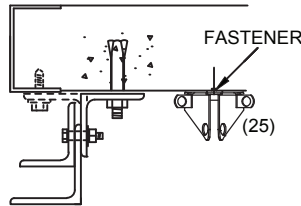


- 8.3 FASTEN OVERLAPPED AREA TOGETHER WITH TWO ROWS OF TEK SCREWS ON EACH FLAT SECTION.  
 8.4 ONCE ASSEMBLED, RAISE HOOD WITH MECHANICAL HOIST OR FORKLIFT AND FASTEN TO HEADPLATES AND HEADER  
 8.5 FASTEN HOOD TO HEADPLATES AT LOCATION "A" WITH 1/4" SELF TAPPING SCREWS.  
 8.6 FASTEN HOOD TO HEADER 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'.



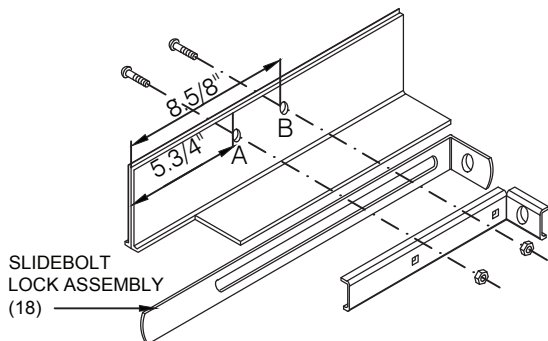
## STEP #9 - HAND CHAIN & CHAIN KEEPER

- 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.



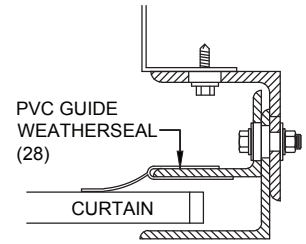
## STEP #10 - SLIDE BOLT LOCK (OPTIONAL)

- 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



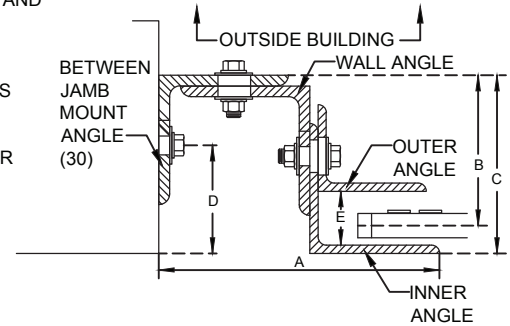
## STEP #11 - GUIDE WEATHERSEAL (OPTIONAL)

- 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.

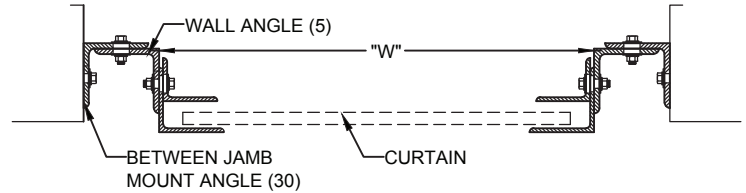


## STEP #12 - BETWEEN JAMB MOUNT (OPTIONAL)

- 12.1 CHECK THE HEIGHT AND WIDTH OF THE OPENING.  
 12.2 CHECK IF THE JAMBS ARE PLUMB.  
 12.3 CHECK IF THE FLOOR AND HEADER ARE LEVEL.



- 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	B	C	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

GUIDE TYPE	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"