

Series 4300 - Rigid Insulated Impact Door

INSTALLATION INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE INSTALLING DOOR. SUPER SEAL MFG. LTD. WILL NOT BE HELD RESPONSIBLE FOR IMPROPER INSTALLATION OF ANCHORING DEVICES, OR FOR INSTALLATION INTO AGED OR UNSOUND CONCRETE, CONCRETE BLOCK, OR OTHER WALL OR FLOOR MATERIAL WHICH MAY RESULT IN PREMATURE PRODUCT WEAR, PRODUCT FAILURE, PROPERTY DAMAGE, OR PERSONAL INJURY.

1. Check Order

- a. **Measure door opening height and width.** Compare to Purchase Order.
The allowable tolerance is $\pm 1/8"$.
- b. **Check Components List and Hardware Supplied List.** Make sure all components and hardware are present. Super Seal supplies self-tapping screws for door installation on steel jambs. For jambs other than steel, the owner/contractor must supply suitable fasteners.
- c. **Recommended Door Jamb:** Steel, 1/8" thick by 4" wide. If the door jamb does not meet this standard, the customer must have Super Seal's "U" Bracket Extension.
- d. **Check Recommended Tools List.** Make sure all recommended tools are available.

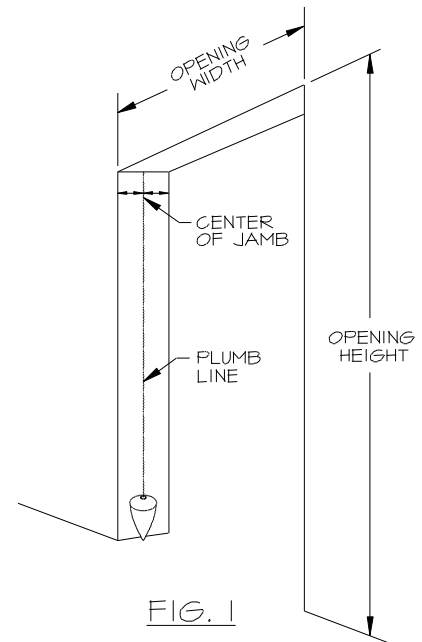


FIG. 1

2. Prepare Door Frame

- a. **Correct door opening height and width.**
 - **Measure left and right sides** of door opening from top to bottom. The height of the left and right sides of the opening should be the same.
 - **Measure the top and bottom** of door opening from side to side. The width of the top and bottom of the opening should be the same.
 - **Prepare shims** to correct any problems.
- b. **Mark center of jamb.**
 - **Measure the jamb width** at the top of the door jamb (Figure 1).
 - **Mark** the center point.
 - **Drop a plumb line** from the center point to the floor and mark.
 - **For wide angle corner jamb mount**, drop plumb line from top corner of jamb to floor and mark.
- c. **Install Double Dutch**, if needed.
 - **See Step 11** for instructions.

3. Mark and Drill Bearing Holes

a. Standard Center Jamb Mount

- Center v-cam along plumb line at top of door jamb (Figure 2).
- Place bottom of v-cam 6" below top of jamb, square to plumb line.
- Drill and tap holes for 1/4" bolt, using v-cam as a template.
- Center bearing at bottom of door jamb, square to plumb line.
- Position top of bearing 9-1/2" from bottom of jamb (Figure 3).
- Mark and drill bearing holes, using bottom bearing as a template.

b. Wide Angle Corner Jamb Mount

- Shim corner as needed to make door frame square and level
- Place v-cam in top corner of door jamb
- Place bottom of v-cam 6" below top of jamb, square to plumb line.
- Drill and tap holes for 1/4" bolt, using v-cam as a template.
- Place bearing at bottom corner of door jamb, square to plumb line.
- Position top of bearing 9-1/2" from bottom of jamb.
- Mark and drill bearing holes, using bottom bearing as a template.

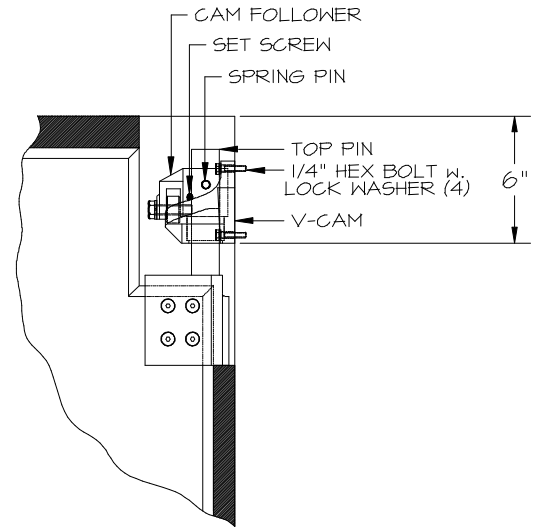


FIG. 2

4. Assemble Hardware on Door Panel

a. Place top hinge hardware onto top panel shaft in the following order (Figure 2):

- v-cam
- v-cam follower

b. Place bottom hinge hardware onto bottom panel shaft in the following order (Figure 3):

- bearing
- plastic spacer washer
- spring
- locking collar

c. Barely tighten locking collar set screw so that it is positioned at bottom of shaft. This temporarily holds bottom hardware in place.

d. For two-panel door, repeat step for other panel.

5. Attach Door Panel

a. Lift door panel into place.

b. Attach v-cam to jamb at the top of the panel using supplied hardware.

c. Attach bearing to jamb at the bottom of the panel using supplied hardware.

d. For two-panel door, repeat step for other panel.

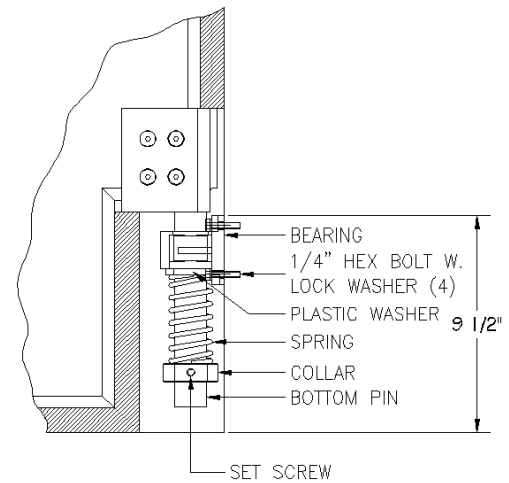


FIG. 3

6. Position Panel in Opening

a. Raise panel so that gasket is touching the lintel and the floor evenly.

b. Center panel in opening (Figure 4).

c. Tighten set screw in v-cam follower at top of panel.

d. Adjust locking collar to set spring tension.

e. Tighten locking collar set screw.

f. For two-panel door, repeat step for other panel.

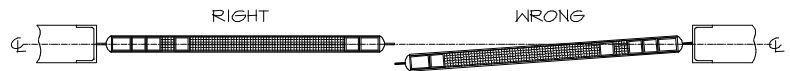


FIG. 4

7. Make Final Door Adjustment

- a. **Allow panel to swing fully in both directions.**
 - If panel does not close in line, **adjust v-cam follower** position.
 - **Shim hinges** if needed.
 - **Repeat** until panel swings properly
 - **For two-panel door**, test both panels together
- b. **Drill 3/8" hole** through v-cam follower and shaft. Use 3/8" spring pin pilot hole as a guide.
- c. **Insert spring pin.**
- d. **For two-panel door**, drill hole and insert spring pin for other panel.

8. Lubricate Shaft

- a. **Clean** any filings away from shaft.
- b. **Open door 90°.**
- c. **Grease 2"** portion of shaft above bottom hinge bearing and above top v-cam hinge.
- d. **Swing panel back and forth** a few times and repeat greasing until shaft is thoroughly lubricated at all friction points.
- e. **Adjust door tension.**
 - **Loosen set screws** on the bottom bearing locking collar.
 - **Relocate locking collar** to suitable position.
 - * To increase tension, raise the locking collar.
 - **Tighten** locking collar set screws in desired position.
- f. **For two-panel door**, drill hole and insert roll pin for other panel.

9. Attach Upper and Lower Vinyl Hinge Covers

- a. Ensure Position of the hinge cover is touching the door frame (Figure 5).
 - For jambs less than 6", **Tek screw to jamb sides.**
 - For jambs greater than 6", **Tek screw to face of door jamb.**
- b. **Position vinyl loop** so it just touches door panel.
- c. **Attach** using Tek screws.
- d. **Repeat** for each hinge cover.

10. Attach Jamb Guard (if ordered)

- a. **Floor mounted jamb guard** (Figure 6)
 - **Position jamb guard.**
 - **Mark and drill** hole in floor.
 - **Secure** with supplied hardware.
- b. **Jamb mounted jamb guard** (Figure 7)
 - **Position jamb guard.**
 - **Mark, drill, and tap** for 3/8" bolt.
 - **Secure** with supplied hardware.
- c. **For two-panel door**, repeat step for other panel.

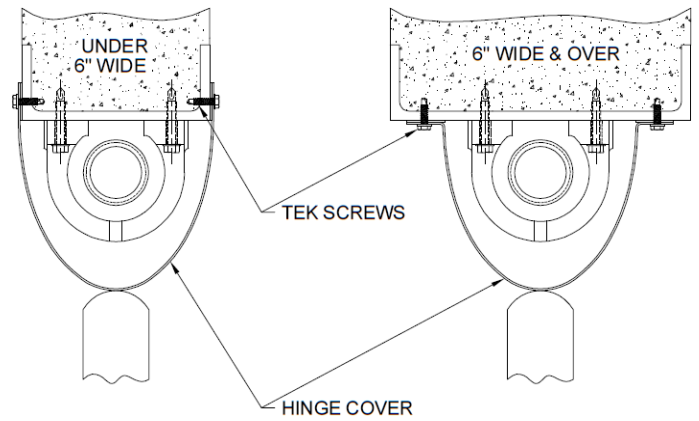


FIG. 5

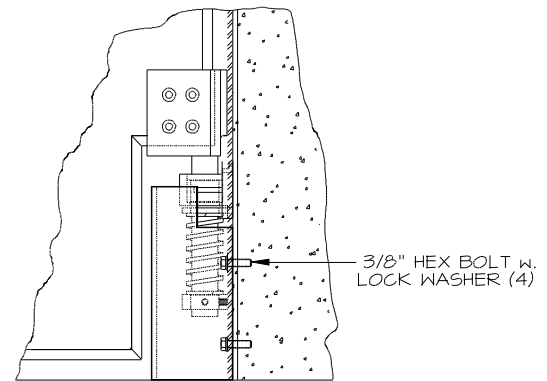


FIG. 6

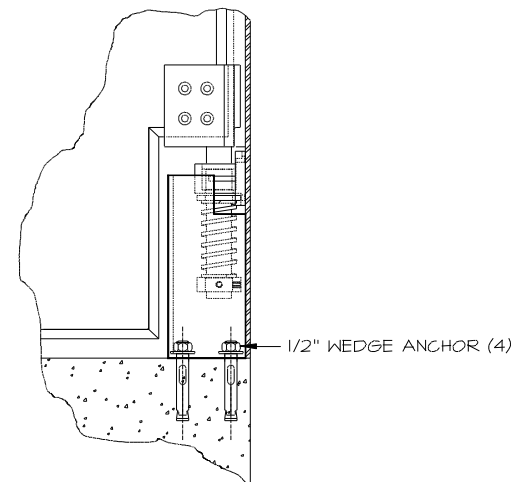


FIG. 7

11. Install Double Dutch Panel

- a. **Determine overall height** of Double Dutch panel.
 - **Measure** panel from top of upper gasket to bottom of lower gasket.
- b. **Mark** Double Dutch panel height on jamb (Figure 8).
 - **Measure and mark down** from top of jamb.
- c. **Measure overall height** of door panel.
 - **Measure** panel from top of upper gasket to bottom of lower gasket.
- d. **Mark** door panel height on jamb.
 - **Measure and mark up** from finished floor.
- e. **For two-panel Double Dutch**, repeat step for other panel.
- f. **Finish installing Double Dutch** panel, following Steps 3-9.
- g. **Install door panel after Double Dutch** panel is installed, following Steps 3-9.

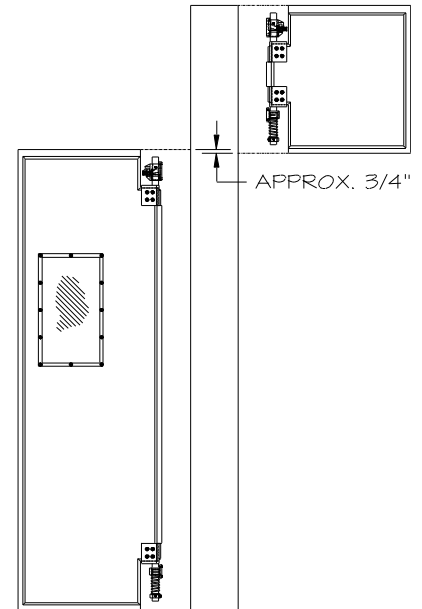


FIG. 8

Maintenance

- a. Every 4 months use General Purpose Grease BR2+ to grease the following:
 - Top Shaft (Figure 2), mounted in the v-cam.
 - Bottom Shaft (Figure 3), mounted in the bottom bearing.

THE FOLLOWING LISTS COVER BASIC INSTALLATION, NOT INCLUDING OPTIONS

Components List (per Panel)

No.	Qty.
1	1
Door Panel (Assembled)	

Hardware Supplied List (per Panel)

No.	Qty.
2	1
90° V-cam Total	
3	1
90° V-cam Follower c/w 1-3/8" x 3/8" Set Screw	
4	1
90° Bearing Total	
5	1
Plastic Spacer Washer	
6	1
Compression Spring	
7	1
Locking collar c/w 2-3/8" x 3/8" Set Screw	
8	1
Vinyl Hinge Cover (Top)	
9	1
Vinyl Hinge Cover (Bottom)	
10	1
3/8" x 2" Spring Pin	
11	8
1/4" x 1-1/4" Hex Bolts	
12	8
1/4" B.S. Lock Washers	
13	8
#10 x 3/4" Tek Screw	
14	1
Installation Instructions	

Recommended Tools List

Qty.	Qty.	
1	1	
Tape Measure		
1	1	
Plumb Line or Level		
1	1	
Pencil or Marker		
1	1	
Square		
1	1	
Power Drill		
1	1	
3/16" HSS Drill Bit		
1	1	
3/8" HSS Drill Bit		
	1	
	1/4" – 20 UNC Tap	
	Tap Wrench	
	Tapping Fluid	
	7/16" Wrench	
	3/16" Hex Key	
	Hammer	
	General Purpose Grease BR2+	