OPENING PREPARATION
MEASURES Width and Height of Framed Opening and Compare with other dimensions. Framed Opening Dimensions must meet order dimensions within the following tolerances:
- Single Door: Width Within 1/4" x Height Within 1/4"
- Double Doors: Width Within 1/8" x Height Within 1/8"
- If the framed opening does not meet the dimensions within these tolerances, call the factory at 1-855-347-8989.

FOR PROPER INSTALLATION:
- Framed Openings must be square and plumb. Make any necessary adjustments to square and plumb framing. Leave all cutouts caulked and plumb.

DRILL BIT SIZES
- For Steel: Use 3/8" drill bit for frame up to 1/2" thick, Use 5/16" drill bit for frames in excess of 1/2" thick.
- For Wood: Use 5/16" drill bit.

FASTENERS
- For Steel (max.): Use 8 G-110 x 1 1/4" Tek screws on backguard side of V-Car. (1 3/4" x 1 1/4" Tek Screw on Top of V-Car. Optional)
- For Wood (max.): Use 1 1/4" x 1 1/4" Tek Screws on backguard side of lower hinge guard.

FASTENERS FOR STEEL FRAMES
- Use: (5) 1 x 1 1/4" x 1 1/4" Tek screws on backguard side of V-Car.
- (5) 1 x 1 1/4" x 1 1/4" Tek Screw on top of V-Car. Optional

FLOORING MATERIALS
- Use 1" x 1 1/4" x 1 1/4" Tek Screws for flooring materials if applicable.

WEDGE ANCHORS
- See "Wedge Anchor Installation at Bottom of Page" Figure 1

STEP 2. UPPER HINGE ASSEMBLY
- Remove the Roller Assembly (9) from the Upper Hinge Post (6). DO NOT REMOVE THE BUSHING (8). Place the V-Cam Assembly (11) onto the Upper Hinge Post (6). Slide the Roller Assembly (9) onto the Upper Hinge Post above the inside face of the V-Cam oriented with the bearing wheel facing down (see Figure 5 & 6). Use the Tighten Cap Screws on the Roller Assembly at This Time.

STEP 3. MOUNTING DOOR OPENING
- Lift the door panel up and slide the Upper Hinge Post (7) into the hole of the Upper Hinge Guard (2). Figure 2. Place the completed door assembly into the frame and line up with the pilot holes before installing. In Step 3, it may be necessary to slide the V-Cam and Roller Assembly down on the hinge post to fit the entire panel assembly into the frame. Once this is done, you can lift the V-Cam and Roller Assembly into the upper channel as indicated by the arrow in Figures 3 & 4. Insert four 1" x 1 1/4" Tek Screws (11) into the V-Cam Screws at the Hinge and tighten securely. (The fifth Tek Screws at the Hinge is Optional). Insert four 1 1/4" x 1 1/4" Tek Screws (11) into the Lower Hinge Guard (2) mounting holes and tighten securely.

STEP 4. HINGE SEAL INSTALLATION
- Make Absolutely Sure that the Snap Bushing (8) is pressed all the way down to the bottom of the Upper Hinge Shaft (6) with the Flanged Side UP, see Figure 7A & B. Smile the Hinge Seal Shaft (9) from your side of the panel (8) with the centrelines of the panel (8) and the top edge of the bottom screws over the Seal Shaft (6), tighten the Top Cap Screws of the Roller Assembly (3) securely, see Figure 5, lift door high enough to gain access to the top Cap Screw on the Roller Assembly (3). See Figure 6, Tighten the lower Cap Screws. Open the door completely and lift it up, allowing the door to rest in the center of the opening. If the door is resting in the center of the opening and is completely closed you may proceed to Step 5. WARMING: FAILURE TO COMPLETE THE INSTALLATION OF THE ROLL Pin AS DIRECTED IN STEPS 2 & 3 OF THESE INSTRUCTIONS WILL VOID ANY AND ALL WARRANTIES ON THIS PRODUCT!

STEP 5. ROLL PIN INSTALLATION
- Using a 3/32" Diameter jewelers bit, drill a hole into the door assembly to a minimum depth of 2 1/2" deep, see Figure 9A. Use Hign Pressure Air to clear the hole debris, install the nut and washer to the top of the nut. Drive the nut and washer to the top of the nut. Drive the anchor (15) into the hole until the anchor is flush with the door base, see Figure 9B.

WEDGE ANCHOR INSTALLATION
- A Torque Wrench is recommended for optimum performance (refer to chart below).

STEP 6. TOP SEAL MOUNTING
- The Top Seal (13) is cut to length at the Factory (Some Trimming May Be Required). Remove the paper from the Double Faced Tape by the basic side of the Top Seal. Place the Top Seal in the center of the header with the Taped Side Up. Place top of seal opposite the Hinge Seals on Double Doors and between the Hinge Seals and opposite Jamb on Single Doors. Once the Top Seals are placed in the desired position, insert the 24 x 1 1/4" Tek Screws (11) and tighten securely. You may wish to drill holes first to ease installation.