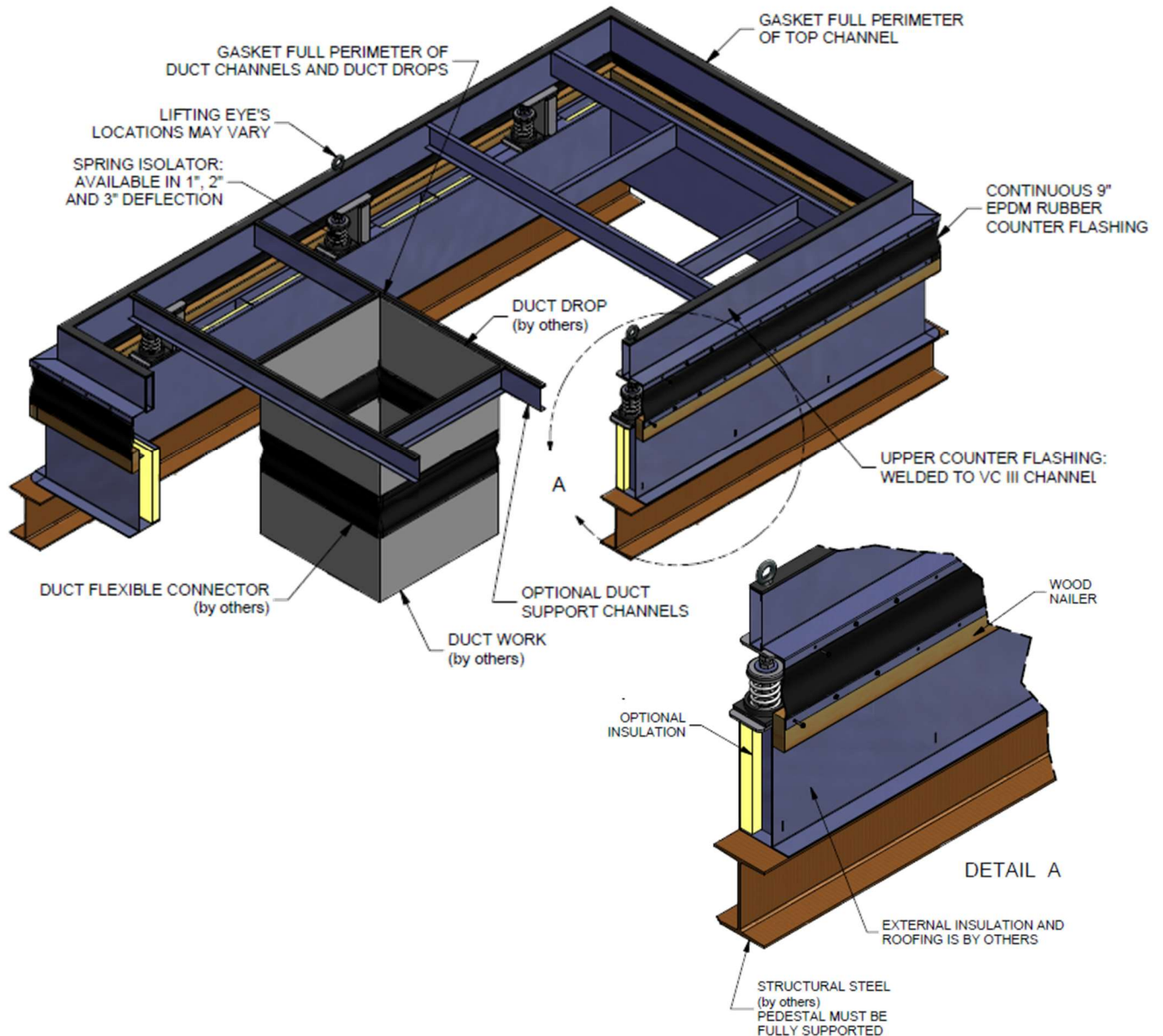


Installation and Assembly Instructions

Vibro-Curb III

General Instructions

Note: These instructions are meant as a general guide only. Some variations may occur, refer to as built drawings before proceeding.



Rigging

Eyebolts should be screwed down and tight. Carefully hoist all pieces on to roof. See Thybar support recommendation sheet before installing (Bottom of Page 4).

Assembly

Note: Vibro-Curb III can be assembled at ground level and then rigged onto roof or pieces can be hoisted onto roof deck for assembly.

1. Assemble all pieces as shown using bolts provided in separate box.
2. Make sure all pieces are for designated unit number or letter.
3. Pieces should be joined by matching letters. (A to A, B to B etc.)
4. Install all cross channels after the perimeter of curb is assembled. Leave all bolts loose.
5. Check the curb assembly for square by measuring the curb diagonally in both directions. Both measurements should be equal.
6. Tighten all bolts and fasten Vibro-Curb III to roof support members of roof deck. Fasten with mechanical fasteners or weld 12" o.c. (or as recommended by structural engineer or architect's details & specifications.)

Optional TEMS Rail

1. Locate TEMS Rail as per curb drawing supplied with shipment.
2. Fasten spring isolator assemblies to TEMS Rail with lag bolts or by welding (Reference factory drawing for location).

Optional Pipe Chase

1. Locate pipe chase as per curb drawing supplied with shipment.
2. Apply a generous amount of caulk sealant under counter flashing of pipe chase and along the back edge.
3. Place pipe chase against Vibro-Curb III and attach to curb wall by installing sheet metal screws through vertical flanges in pipe chase.
4. Press down on counter flashing and fasten to channel on Vibro-Curb III either with screws or rivets. Make sure sealant oozes out of edge and then finger tool smooth.
5. Cut notches on the counter flashing of Vibro-Curb III just behind the counter flashing of the pipe chase. (As shown in pipe chase detail)

Optional Plenum Assembly

1. Screw block-off channel to sidewall of curb using provided Tek screws. Wrap flexible connectors at corners and staple.
2. Screw floor panels in place at bottom of return air plenum. Floor panels must be supported. Field crimp and caulk all seams air tight. Locate and field cut openings for return air duct.

Optional Condenser Drain Pan Assembly

Note: Do not penetrate the drain pan

1. Place support channels on tabs to support pans.

Standing Seam Type

1. Set first pan with male lock on the condenser end of curb and the support channel.
2. Fill female side of seam with caulk and install over male seam.
3. Button punch standing seams every 8" o.c.
4. Repeat these steps as necessary for additional pans.

Shingle Type

1. Remove protective backing from 2 ½" mastic tape at condenser end.
2. Begin with panel #1 and lay panels in place ending with panel #3. Do not secure until all panels are in place and in the right locations.
3. Secure all panels around perimeter and across midsections with self-drilling rubber washer screws 3" o.c. Traxx 2).
4. Caulk all corners and seams with urethane caulk.
7. Remove eyebolts and apply adhesive backed gasketing provided with curb to the entire perimeter of the top of roof curb and all supply & return channels.
8. Ductwork can now be installed if duct supports were supplied. Ductwork must have a flex connection to allow proper isolation. **Note: ensure that the duct does not come in contact with roof if canvas connector is installed below roofline. Refer to the unit manufacturer curb cut for duct locations and connections.**
9. Rooftop unit can now be set.

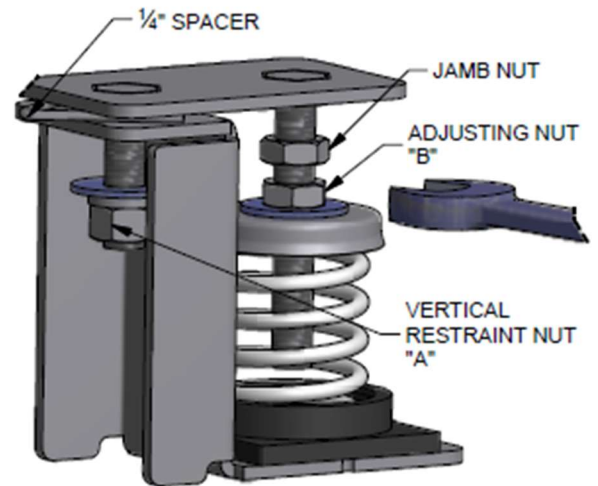
Activating Spring Isolators

Note: units must be set in place before activating spring isolators.

1. Loosen vertical restraint nut "A" to bottom of bolt (**Do Not Remove**)
2. Loosen jamb nut.
3. Turn spring adjustment nut "B" (clockwise) until 1/4" spacer can be easily removed.
4. Continue around Vibro-Curb III activating springs as described above.
5. After all spacers are removed use adjustment nut "B" to level unit for operation
6. Adjust the leveling bolts starting at the lightest corner.
***Do not attempt to isolate (or float) the unit by tightening the first spring all the way down.**

Progress through the process by making only a few turns of the adjustment nut "B" at each isolator location. Repeat as required until the unit is at proper operating height. Lock jamb against nut "B" to prevent movement.

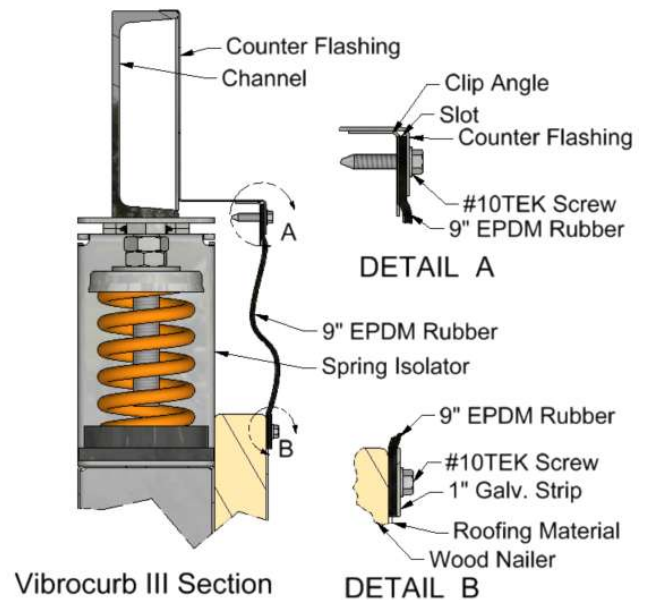
SPRING ISOLATOR DETAIL



EPDM Rubber Installation

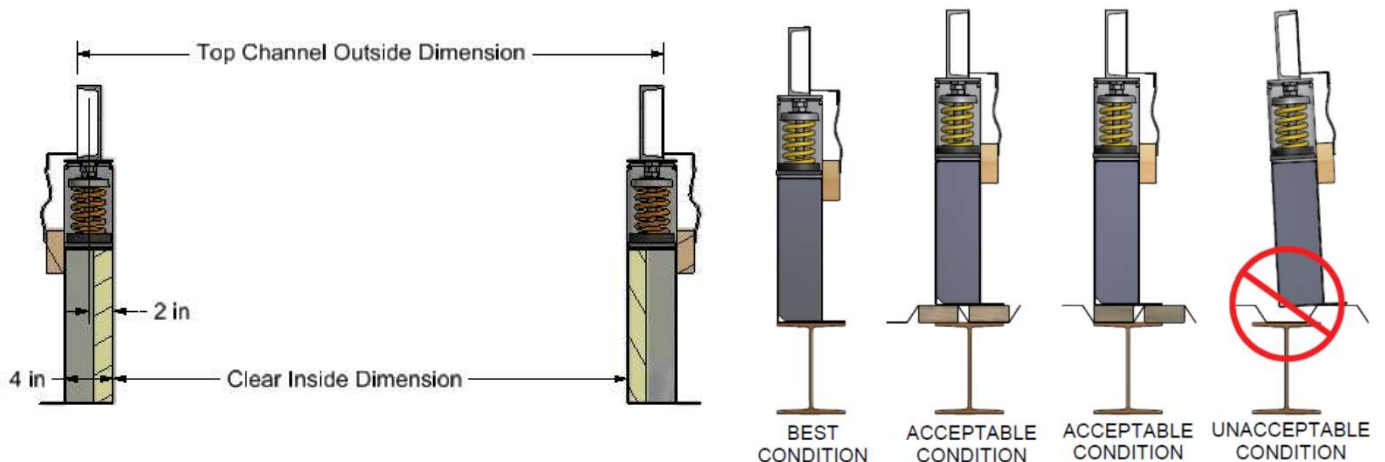
The EPDM Rubber can be installed after the unit is set, springs activated, and the roofer has attached roofing felts.

1. Insert top of flexible EPDM Rubber into counter flashing slot as shown on Detail A. Secure EPDM Rubber by screwing the provided Tek screws through pilot holes on the counter flashing making sure that rubber is inside slot between the counter flashing and the clip angle. Do not overtighten and strip the sheet metal slot.
2. Overlap seams 6". Clean mating surfaces of 6" overlap with mild soap solution. Dry mating surfaces thoroughly and apply supplied seam sealer tape between seam overlap. Press seam together to insure a weather tight seal.
3. Fasten bottom of EPDM Rubber to wood nailer as shown in Detail B with supplied Tek screws and 1" strip. Do not over tighten screws and strip wood nailer. Do not pull rubber flashing tight when screwing to wood nailer.



Thybar Support Recommendations

Vibro-Curb III pedestal must be fully supported. Improper support of pedestals will cause pedestals to lean or tip.



Spring Removal Instructions

1. Remove galvanized strip located at the bottom of the rubber curb flashing by removing Tek screws. Do not discard screws.
2. Fold rubber up to expose springs. Removing the rubber counter flashing entirely is unnecessary.
3. The unit will have to be jacked up slightly over the springs that need replacement. This can be done by adjusting the springs on both sides of the spring to be replaced. If the spring to be replaced is a corner spring, adjust the closest spring and the one in the closest corner. Using two 1 1/8" wrenches turn the adjusting nut clockwise until the distance between the rubber flashing and the wood nailer is greater than the diameter of the spring.
4. Using two 1 1/8" wrenches, turn the adjusting nut on the spring to be removed counterclockwise until the adjusting nut and bolt head touch.
5. Spring can now be pulled out and removed. Be careful not to let the rubber cup below the spring fall off the isolator pedestal-you may never get it back!
6. Place the new spring in the rubber cup and slide the top of the adjusting bolt into position.
7. Turn the adjusting nut clockwise to activate the spring.
8. Adjust the two neighboring springs to their previous position.
9. Reattach rubber counter flashing using steel strip and screws.

