

**Thybar
Corporation**

Vibro-Curb III™

Assembly and Installation Instructions



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 perimeter of curb is assembled. Leave all bolts loose.
5. Check the curb assembly for squareness 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 architects 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 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 drain pan

1. Place support channels on tabs to support pans.

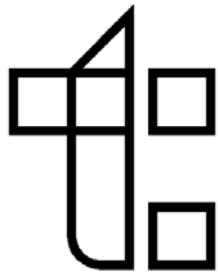
Standing Seam Type

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 flex connection to allow proper isolation. **Note: insure that 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.**

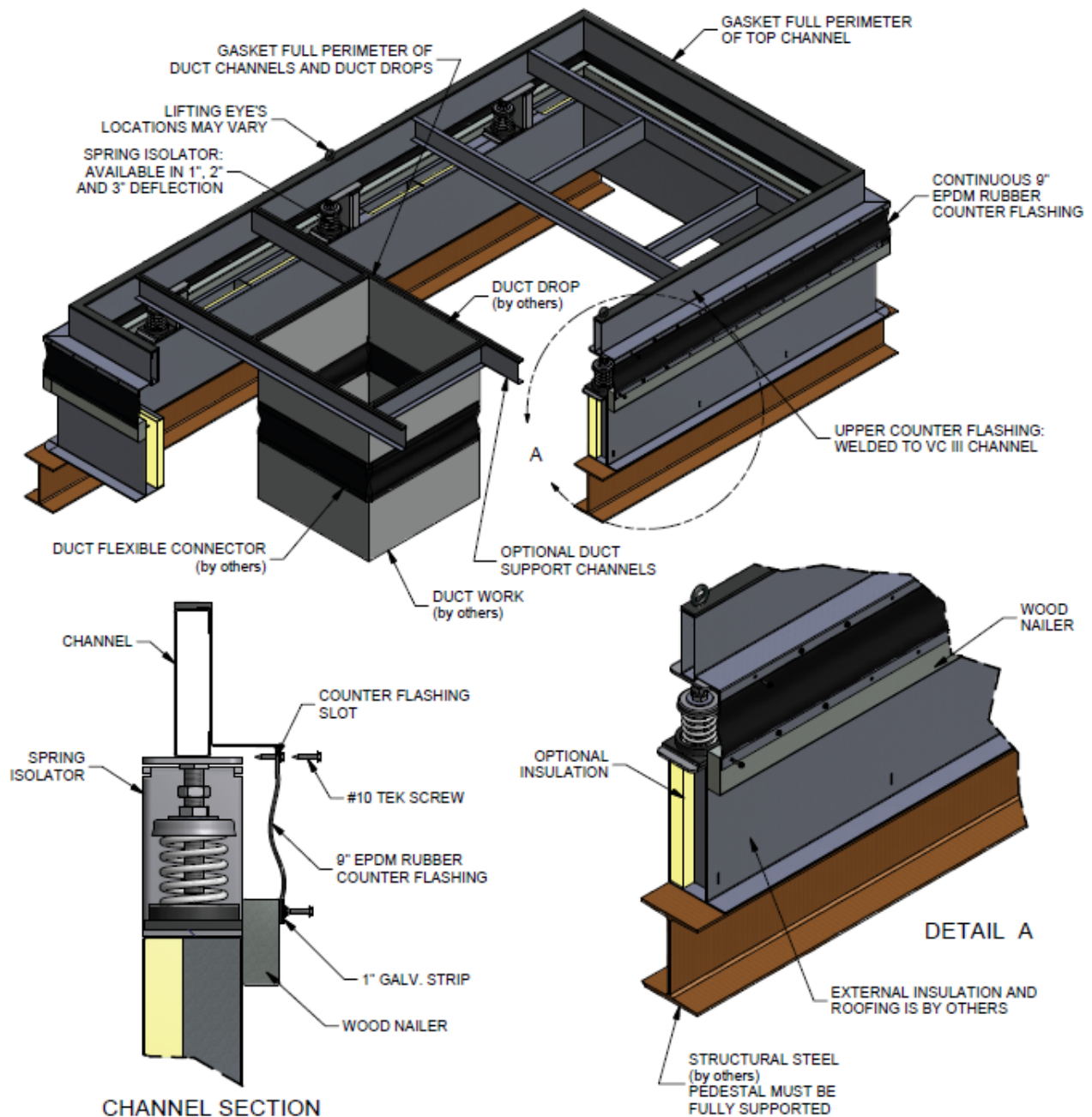


**Thybar
Corporation**

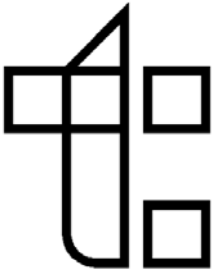
Vibro-Curb III™



RIGGING: Eyebolts should be screwed down and tight, carefully hoist onto roof. See Thybar support recommendations before installing.



* CORNER REMOVED
FOR CLARITY



Thybar
Corporation

Vibro-Curb III™

Assembly and Installation Instructions



Activating spring isolators

(see spring isolator detail)

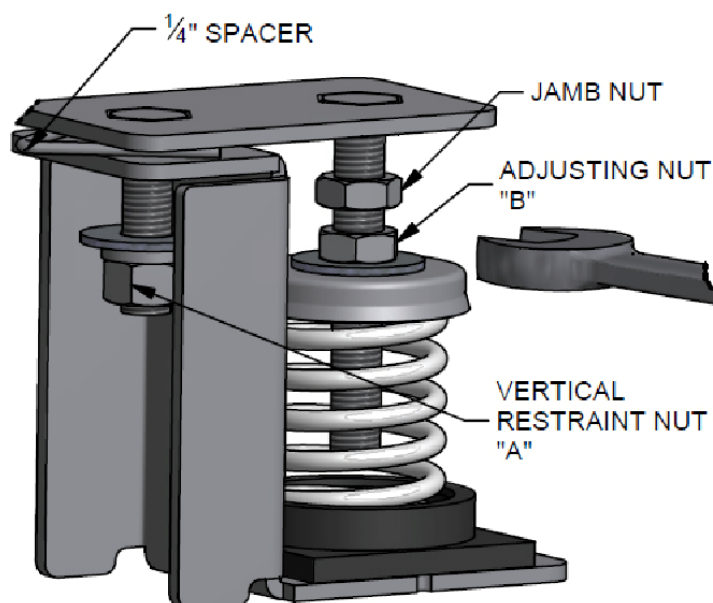
Note: units must be set in place before activating spring isolators.

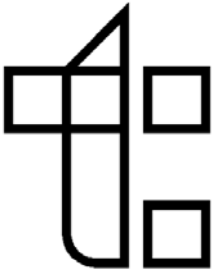
1. Loosen vertical restraint nut "A" to bottom of bolt (**Do Not Remove**)
2. Loosen jamb nut.
3. Turn spring adjustment nut "B" (clockwise) until 1/4" spacer can be easily removed.
4. Continue around Vibro-Curb III™ activating springs as described above.
5. After all spacers are removed use adjustment 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 unit is at proper operating height. Lock jamb against nut "B" to prevent movement.

SPRING ISOLATOR DETAIL





**Thybar
Corporation**

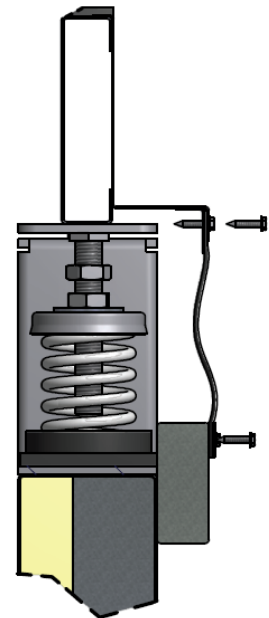
Vibro-Curb III™

Assembly and Installation Instructions



Counter flashing:

1. The counter flashing can be installed after the unit is set and the roofer has attached roofing felts.
2. Insert top of flexible counter flashing into counter flashing slot as shown on detail. Secure counter flashing by screwing the provided Tek screws through pilot holes making sure that rubber is inside slot. Do not over tighten and strip sheet metal slot. Overlap rubber flashing 3".
3. Clean mating surfaces of 3" 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.

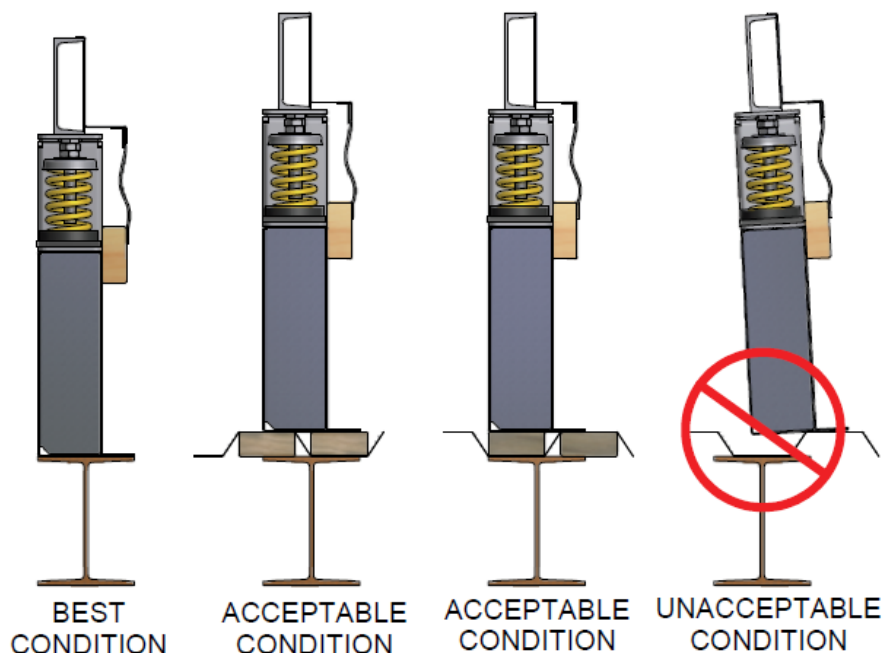


COUNTER FLASHING

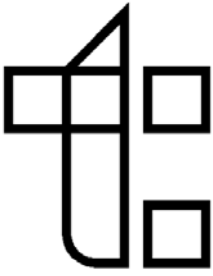
Fasten bottom of rubber flashing to wood nailer as shown with supplied Tek screws and 1" GALVALUME™ strip. Do not over tighten screws and strip wood nailer. Do not pull rubber flashing tight when screwing to wood nailer.

THYCUREB SUPPORT RECOMMENDATIONS FOR VIBRO-CUREB III™

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



NOTE: These instructions are meant as a general guide only, some variations may occur.



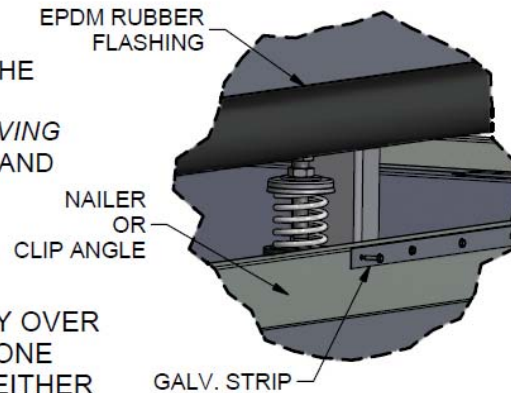
Thybar
Corporation

Vibro-Curb III™

Spring Removal Instructions

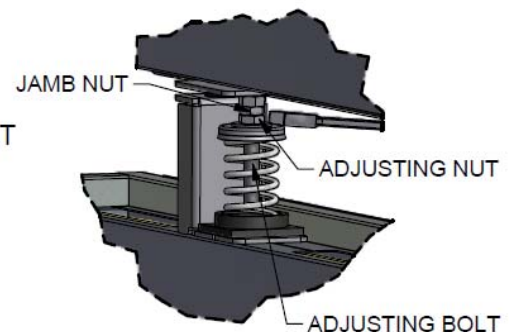


REMOVE GALV. STRIP AND SCREWS SECURING THE EPDM TO THE NAILER OR CLIP ANGLE AND FOLD RUBBER EPDM UP AND OUT OF THE WAY. (*REMOVING TOP OF EPDM IS NOT REQUIRED*) SAVE SCREWS AND STRIPS, THEY WILL BE RE-USED.

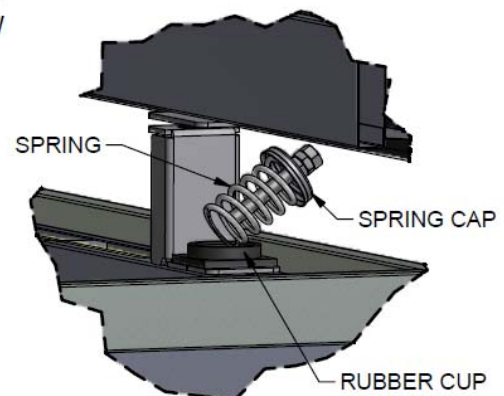


THE UNIT MAY NEED TO BE JACKED UP SLIGHTLY OVER THE SPRINGS BEING REPLACED. THIS CAN BE DONE EASILY BY ADJUSTING DOWN THE SPRINGS ON EITHER SIDE OF THE SPRING BEING REPLACED.

BACK OFF THE JAMB AND ADJUSTING NUTS OF THE ISOLATOR BY TURNING COUNTER CLOCKWISE UNTIL THEY ARE FULLY RECESSED AND THE ADJUSTING BOLT CAN BE REMOVED FROM THE ISOLATOR TOP PLATE.



THE SPRING CAN NOW BE REMOVED BY ROTATING IT OUT OF THE ISOLATOR ASSEMBLY. (*BE CAREFULL NOT TO LOSE THE RUBBER CUP BASE OF THE SPRING, AS THEY CAN BE HARD TO RETRIEVE*). INSTALL THE NEW SPRING IN REVERSE ORDER OF THE REMOVAL PROCEDURE ABOVE.



ADJUST THE ISOLATOR SPRINGS BACK TO THE LEVEL REQUIRED FOR PROPER ISOLATION OF THE UNIT. RE-ATTACH THE EPDM RUBBER USING THE SCREWS AND GALV. STRIPS PREVIOUSLY REMOVED.