



Smart VENT

877- 441- 8368

www.smartvent.com

DETAIL DIAGRAM MODEL 1540-521 FLOOD VENT INSULATED

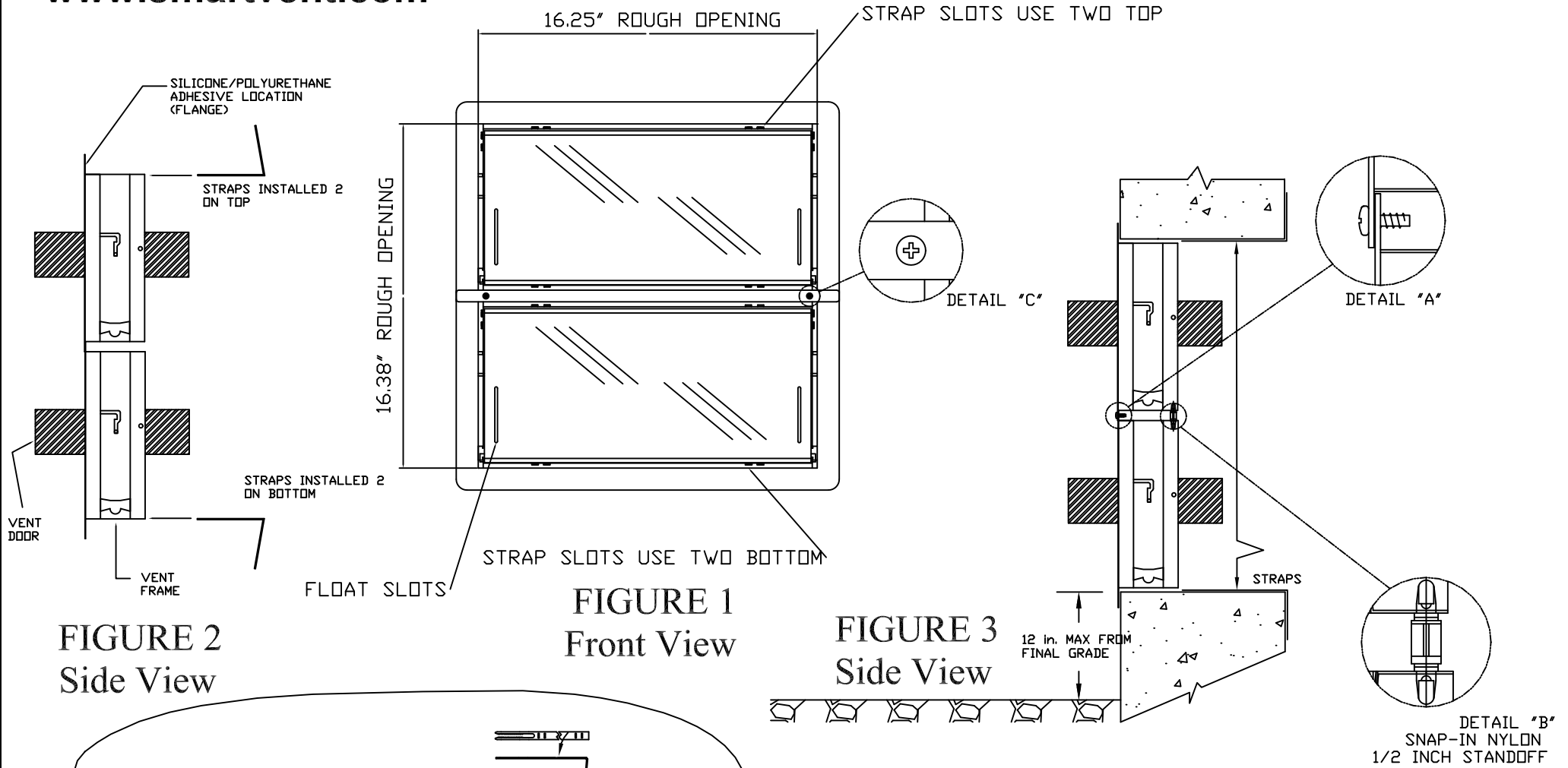
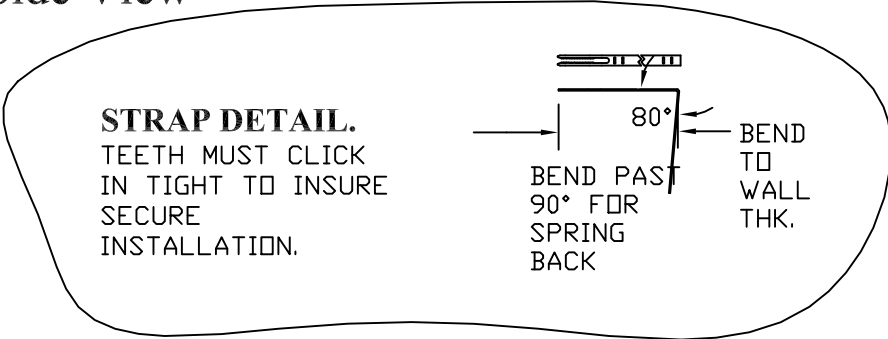



FIGURE 2
Side View

FIGURE 1
Front View

FIGURE 3
Side View



TOLERANCES UNLESS OTHERWISE SPECIFIED XX +/-0.06 X.XX +/-0.03 X.XXX +/-0.005	 SMART VENT® 877-441-8368 WWW.SMARTVENT.COM		SMART VENT Foundation Flood Vents 450 AndBro Dr., Suite 2B Pitman NJ 08071		
	FLOOD VENT INSULATED MODEL 1540-521			SIZE A	DWG NO. 1540-521
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SMART VENT, INC. IF USED IN PROJECT, CHANGES TO DRAWING ARE PROHIBITED WITHOUT THE WRITTEN PERMISSION OF SMART VENT, INC.			DATE: 5-15-09		SHEET 1 OF 2



Smart VENT

877- 441- 8368

www.smartvent.com

INSTALLATION INSTRUCTIONS

& DETAILS

MODEL 1540-521

FLOOD VENT INSULATED

REV. 5-15-09

INSTALLATION INSTRUCTIONS

1. Prepare a CLEAN 16-1/4" wide x 16-3/8" high rough opening for each set of stacking vents (1 block wide x 2 blocks high) with the bottom of the hole no more than 12" above finished grade.
2. Measure wall thickness and overbend (more than 90 degrees) 8 straps at nearest slot to the measurement from pointed end.
3. Remove doors from frames. (turn upside down, rotate bottom of door outward and slide out of slots).
4. Assemble two frames together using two nylon spacers snapped into holes in rear of frames as shown in detail "B".
Place top frame (one with short bottom flange) over and in front of bottom frame (one with short top flange) and fasten front of frames together with two self tapping screws as shown in details "A" and "C". Do not over tighten screws.
5. Insert two straps into top slots of top frame. Straps should have bent legs pointing up. After pushing teeth through rear slots, **ONLY PUSH STRAPS ONE CLICK INTO FRONT SLOTS**, they will be tightened later in installation.
6. Silicone or Polyurethane adhesive maybe applied to back of flanges for a better seal to wall face. Place frame assembly into wall opening by sliding the top straps behind wall & resting frame bottom on bottom of wall opening. Press flanges tight to wall face.
7. Reach through bottom frame opening and install two bent straps into two bottom slots with the bent legs of the straps hanging down behind wall and trapping wall between front flange and bent strap. Squeeze tight to wall.
8. Install a strap on each side of both frame openings. Install with bent leg pointing outward behind the wall and into slots on each of upper sides. Squeeze tight to wall. Now, squeeze top frame straps tight to wall.
9. Make sure both frames are flush to wall face, secure, square, level and all slots are clear of debris, mortar and caulk.
10. Hold doors from the bottom, parallel to ground with back facing ground and re-install into frames by inserting top first and letting metal pins find slots. Push all the way back and allow door to drop and rotate down on both sides latched closed.

DETAILED SPECIFICATIONS:

MATERIAL: STAINLESS STEEL

OPERATION FLOOD: AUTOMATIC NON-POWERED ACTIVATION AND OPERATION
VENT REMAINS CLOSED AND LOCKED UNTIL ACTIVATED

INSTALLATION:

SECURED W/ 4 STAINLESS STEEL STRAPS SUPPLIED
HYDROSTATIC RELIEF: 200 Sq. Ft per Vent (400 Sq. Ft. per this 2 up assembly)

REQUIREMENTS FLOOD: MINIMUM OF 2 VENTS PER ENCLOSED AREA MOUNTED ON AT LEAST TWO DIFFERENT WALLS

COLORS: STAINLESS (STANDARD)

EXTERIOR POWDER COATED WHITE, WHEAT, GRAY, AND BLACK (AVAILABLE)

MEETS THE REQUIREMENTS FOR ENGINEERED OPENINGS AS SET FORTH BY:

FEMA, NFIP, ICC, & ASCE

SUPPORTIVE DOCUMENTS, TB 1-08, 44CFR 60.3(C)(5), ASCE 24-05

ICC EVALUATION # ESR-2074



MATERIAL REVIEW & MAINTENANCE INSTRUCTIONS

Objective:

When we set out to design our flood vent products, a comprehensive study was conducted to determine the most important design attributes that would be needed to insure that our customers received the best product available. Because our company started on the shores of the East Coast of New Jersey, everyone placed durability as their number one concern.

Durability:

After extensive research, including review of many less expensive materials, we choose to make the bulk of the components for our vents from stainless steel. Salt will pit stainless steel unless it is rinsed with water. We recommend that the vent be washed with fresh water twice a year. Any red rust or minor surface pitting can be removed with “commercial de-rusting solutions.”

The mechanism that operates the automatic louvers on models 1540-510, 1540-511, 1540-514 and 1540-550 is also entirely made from stainless steel, and water rinsing will reduce corrosion and dirt build-up. Prior to final inspection and testing, the louver mechanism is lubricated with a dry film lubricant. This over the counter lubricant should be applied at minimum one time per year, or when needed. Rinse the louver mechanism, let dry, then spray all of the moving parts. Note: Wet lubricants or grease will allow dirt and sand to accumulate on the moving parts. Use only dry film lubricants.

The bi-metal coil is made from highly engineered materials. The composite contains a large portion of Nickel and the finished coil is secondarily heat-treated, which forms a protective barrier to protect it from the elements. A squirt of dry film lubricant into the coil chamber during maintenance will extend its life.

The floats are manufactured from engineered plastics. An ultra-violet inhibitor was blended into the raw material before molding to insure that the sun does not degrade the functional or dimensional characteristics of the material. Insert a thin blade or a credit card into each side of the vent door’s float slot, and the door will easily push open. Rinse the float cavity, then apply a small amount of dry film lubricant on the float, where it contacts the frame.

Like any product, the care one gives will determine its life. We have used the best American materials, along with the best engineering and manufacturing professionals to build our products. With just a little care, your vents will function carefree for many years.

