



Smart VENT

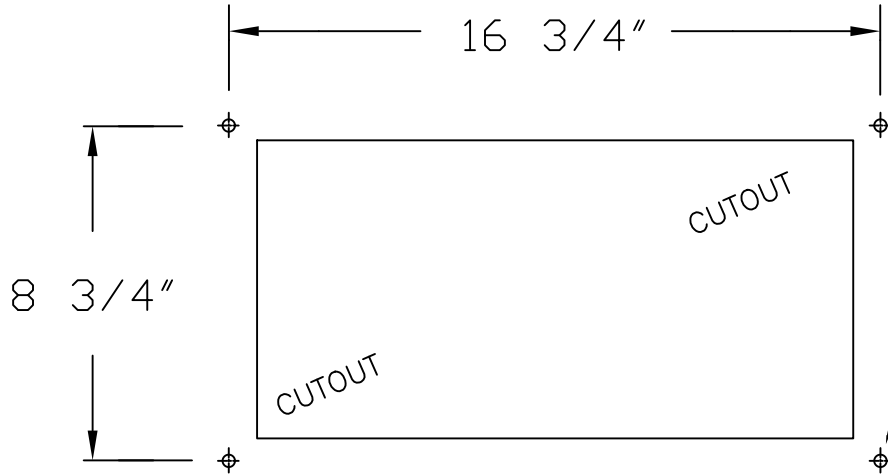
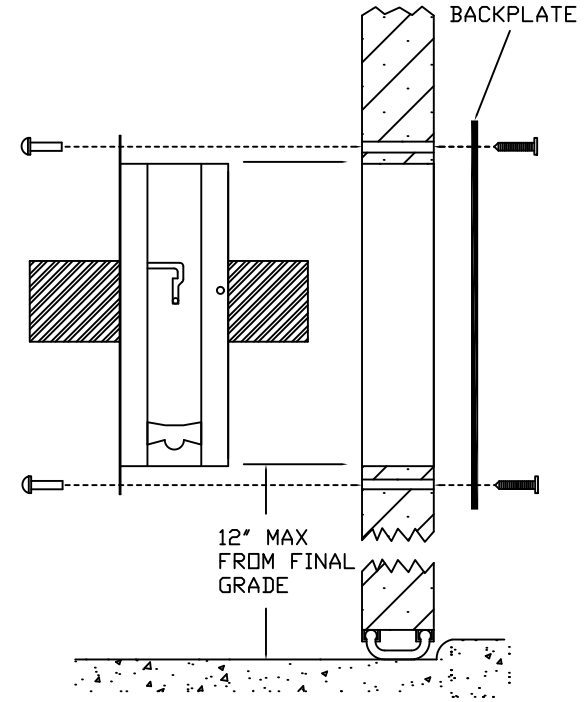
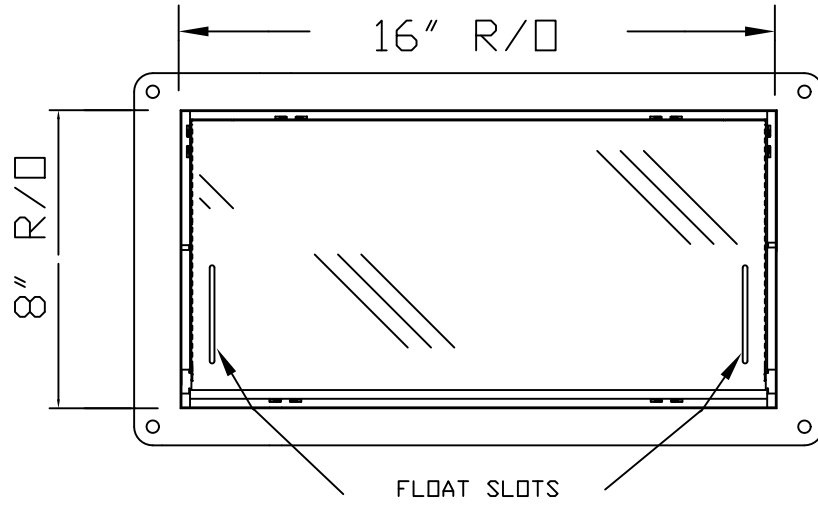
877-441-8368

www.smartvent.com

DETAIL DIAGRAM

MODEL 1540-524

16" GARAGE DOOR INSULATED



FOR TEMPLATING ON GARAGE DOOR
BACKPLATE MAY BE USED

TOLERANCES UNLESS OTHERWISE SPECIFIED	
X.X	+/-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

16" GARAGE DOOR INSULATED
 MODEL 1540-524

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SIZE A	DWG NO. 1540-524	REV B
DATE. 5-15-09	SHEET 1 OF 2	



Smart VENT

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INSTALLATION INSTRUCTIONS & DETAILS

MODEL 1540-524

16" GARAGE DOOR INSULATED

REV. 5-15-09

INSTALLATION INSTRUCTIONS

(SEE DIAGRAM ON BACK PAGE 1 OF 2)

1. For each vent cut a CLEAN, SQUARE, and LEVEL 16 " x 8 " opening in the door panel. Ensure that the bottom of the opening is no more than 12" above the final grade (driveway). The inside backplate can also be used as a template.
2. Remove the Vent door from Vent frame. (turn upside down, rotate bottom of door outward and slide out of frame slots)
3. Position the vent frame by hand in the opening so that it is square and level. Transfer the 4 mounting holes. Remove the vent from the opening and drill (4) 1/4" holes through the entire door..
Ensure that these holes are square so the Vent frame and Backplate line up.
4. Clean any and all loose or sharp metal burrs from the door panel. The front Vent frame must sit flush to the door panel.
5. Insert the Vent frame into OH Door Panel with SERIAL NUMBER LABEL on the BOTTOM. Install backplate over inside of door frame. Check alignment of pre-drilled holes in Vent frame, door and backplate. Make sure Frame sits LEVEL and front flange is FLUSH with the front of OH Door Panel. Apply small bead of polyurethane adhesive behind Vent front frame flange to seal Vent frame to face of Door Panel. SEE DIAGRAM.
6. Secure with 4 Stainless Steel sex nuts and bolts through door to backplate with female section on outside.
If overhead door thickness is too thin, use the self locking nuts and washers in lieu of the sex nuts and bolts.
7. Insert the door back into the Vent frame. Check that the Vent door is latched on both sides. To open the vent insert two credit cards into the front float slots as shown in the diagram.
8. Vent door should not open when OH door opens. Vent door only opens when in contact with flood water and OH Door is fully closed.

DETAIL SPECIFICATIONS:

MATERIAL: STAINLESS STEEL

OPERATION FLOOD: AUTOMATIC NON-POWERED ACTIVATION AND OPERATION

INSTALLATION:

SECURED W/ 4 STAINLESS STEEL BINDING BARRELS

USE 2 1/2" BOLD AND LOCKING NUT WHERE

BINDING BARREL NUT (SNB'S) CAN NOT BE USED.

HYDROSTATIC RELIEF: 200 Sq Ft per Vent

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

COLORS: WHITE (STANDARD)

STAINLESS STEEL, 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



Smart VENT

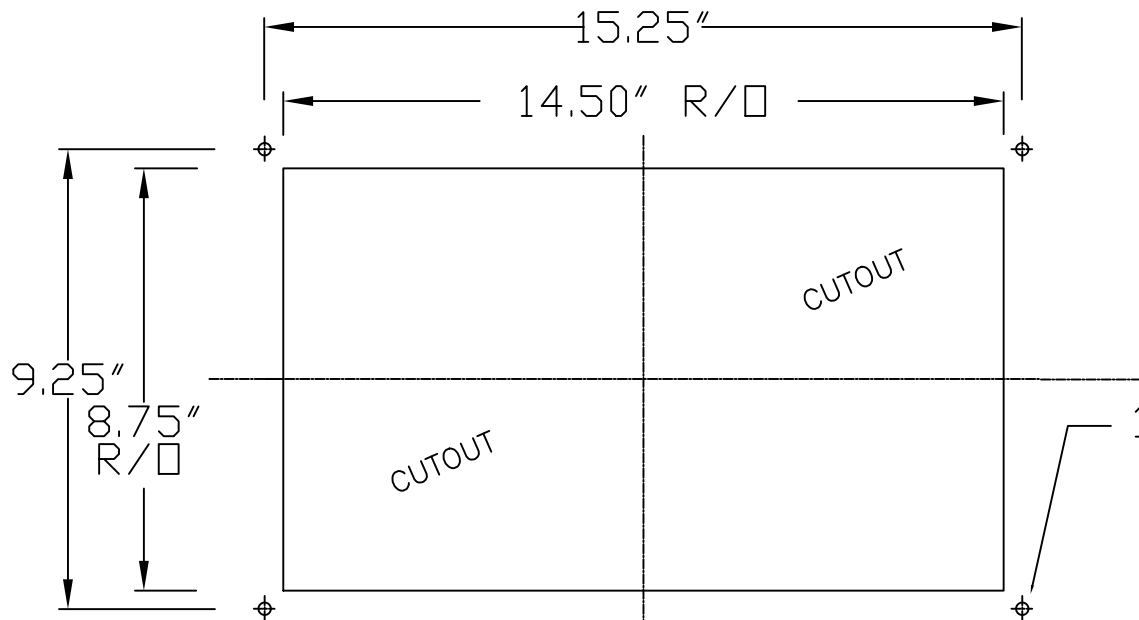
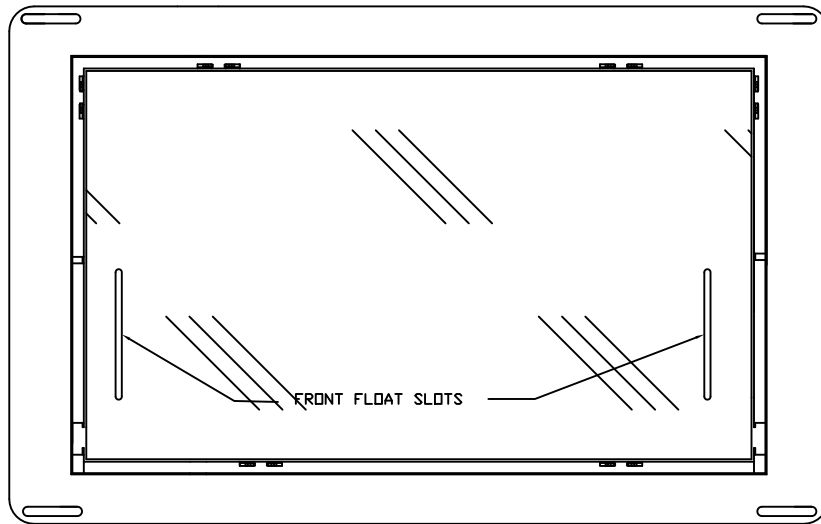
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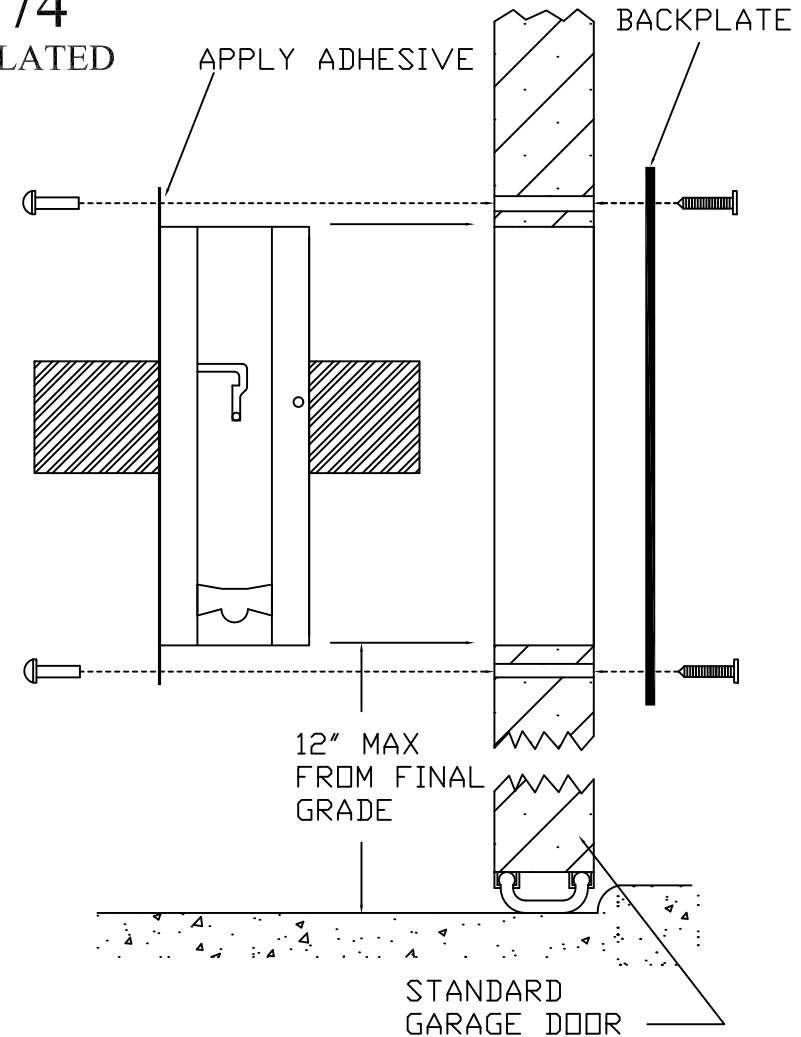
DETAIL DIAGRAM

MODEL 1540-574

14 1/2" GARAGE DOOR INSULATED



FOR TEMPLATING ON OVERHEAD GARAGE DOOR—
BACKPLATE MAY BE USED



1/4" DIA. 4 PLS.

TOLERANCES UNLESS OTHERWISE SPECIFIED
 X.X +/-0.06
 X.XX +/-0.03
 X.XXX +/-0.005



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14 1/2" GARAGE DOOR INSULATED
 MODEL 1540-574

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SIZE A	DWG NO. 1540-574	REV B
DATE. 5-15-09	SHEET 1 OF 2	



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INSTALLATION INSTRUCTIONS & DETAILS

MODEL 1540-574

14 1/2" GARAGE DOOR INSULATED

REV. 5-15-09

INSTALLATION INSTRUCTIONS

(SEE DIAGRAM ON BACK PAGE 1 OF 2)

1. For each vent cut a CLEAN, SQUARE, and LEVEL 14 1/2"x8.75" opening in the door panel. Ensure that the bottom of the opening is no more than 12" above the final grade (driveway). The inside backplate can also be used as a template.
2. Remove the Vent door from Vent frame. (turn upside down, rotate bottom of door outward and slide out of frame slots)
3. Position the vent frame by hand in the opening so that it is square and level. Transfer the 4 mounting holes. Remove the vent from the opening and drill (4) 1/4" holes through the entire door..
Ensure that these holes are square so the Vent frame and Backplate line up.
4. Clean any and all loose or sharp metal burrs from the door panel. The front Vent frame must sit flush to the door panel.
5. Insert the Vent frame into OH Door Panel with SERIAL NUMBER LABEL on the BOTTOM. Install backplate over inside of door frame. Check alignment of pre-drilled holes in Vent frame, door and backplate. Make sure Frame sits LEVEL and front flange is FLUSH with the front of OH Door Panel. Apply small bead of polyurethane adhesive behind Vent front frame flange to seal Vent frame to face of Door Panel. SEE DIAGRAM.
6. Secure with 4 Stainless Steel sex nuts and bolts through door to backplate with female section on outside.
If overhead door thickness is too thin, use the self locking nuts and washers in lieu of the sex nuts and bolts.
7. Insert the door back into the Vent frame. Check that the Vent door is latched on both sides. To open the vent insert two credit cards into the front float slots as shown in the diagram.
8. Vent door should not open when OH door opens. Vent door only opens when in contact with flood water and OH Door is fully closed.

DETAIL SPECIFICATIONS:

MATERIAL: STAINLESS STEEL

OPERATION: AUTOMATIC NON-POWERED ACTIVATION AND OPERATION

INSTALLATION:

SECURED W/ 4 STAINLESS STEEL BINDING BARRELS

USE 2 1/2" BOLD AND LOCKING NUT WHERE

BINDING BARREL NUT (SNB'S) CAN NOT BE USED.

HYDROSTATIC RELIEF: 200 Sq Ft per Vent

REQUIREMENTS: MINIMUM OF 2 VENTS PER ENCLOSED AREA

MOUNTED ON DIFFERENT WALLS

COLORS: WHITE (STANDARD)

STAINLESS STEEL, 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.

