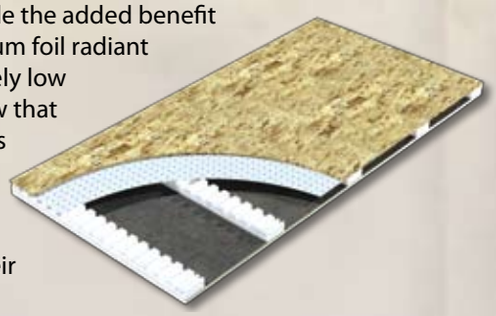
CROSSVENT® RB

Just Like CrossVent®... With A Silver Lining

ACFoam® CrossVent® RB from Atlas improves the thermal efficiency of standard CrossVent® by including a radiant barrier on the underside of the OSB nailing surface. It consists of a polyiso insulation board with 1.0", 1.5" or 2.0" vent spacer strips. These strips separate the 7/16" APA/TECO rated radiant barrier OSB from the polyiso foam insulation to create a cross-ventilating air space. The radiant barrier prevents most radiant heat transfer and reduces the temperature gradient across the polyiso board. The spacer strips allow air to flow through the air space, thereby helping to further dissipate heat build-up beneath the OSB. CrossVent® RB is made to order in 4' x 8' (1220mm x 2440mm) size panels and in nominal thicknesses of 2.5" to 6.5".

CrossVent® RB can substantially increase the thermal efficiency of the roof. The innovative technological advances in CrossVent® RB provide the added benefit of a perforated aluminum foil radiant barrier with an extremely low emissivity. Studies show that a radiant barrier reflects up to 97% of radiant energy from the roof. With CrossVent® RB, owners can save on their cooling costs.



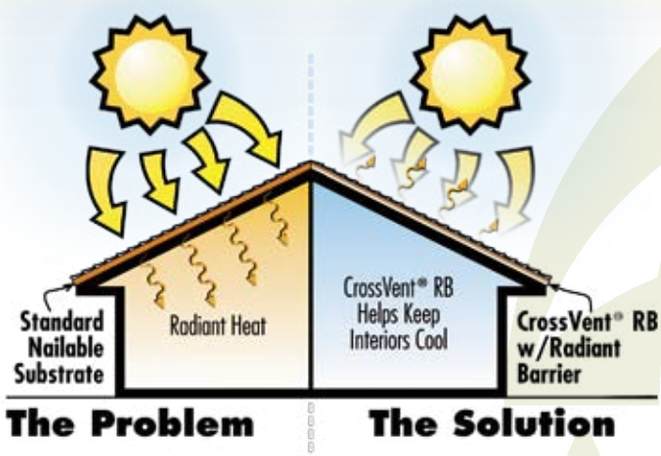
ONE-STEP INSULATION, VENTILATION, RADIANT BARRIER, AND NAILABLE ROOF SUBSTRATE

The introduction of CrossVent® RB is the latest in the Atlas line of sustainable building products. It expands on the expertise Atlas has proven in the past with nailable cross-ventilated polyiso insulation panels for sloped unventilated roof decks. Atlas, the first major insulation manufacturer to offer HCFC-free polyiso products, continues to maintain its leadership role in providing energy efficient and environmentally friendly building materials.

CROSSVENT® PRODUCT COMPARISON CHART

Benefits	CrossVent®	CrossVent® RB
High R-Value	YES	YES
Allows Heat Dissipation	YES	YES
Nailing Surface	YES	YES
Up to a 38% Reduction in Heat Transfer	NO	YES
Asphalt Shingle Manufacturer's Warranty	YES	YES

Only CrossVent® RB substantially limits Conductive AND Radiant Heat Transfer.



It only takes an outside air temperature of 69 degrees to heat a roof deck to over 140 degrees, depending on the amount of direct sunshine and shingle color.

WHAT IS RADIANT HEAT?

Radiant heat is formed when energy from the sun passes through space and warms the objects it strikes, such as a roof surface. Standard ventilating Nail Base Insulation does a good job of reducing convective and conductive heat transfer. However, it does little to reduce radiant heat transfer, which contributes significantly to the total heat flow into the building.

ONLY CROSSVENT® RB COMBINES...

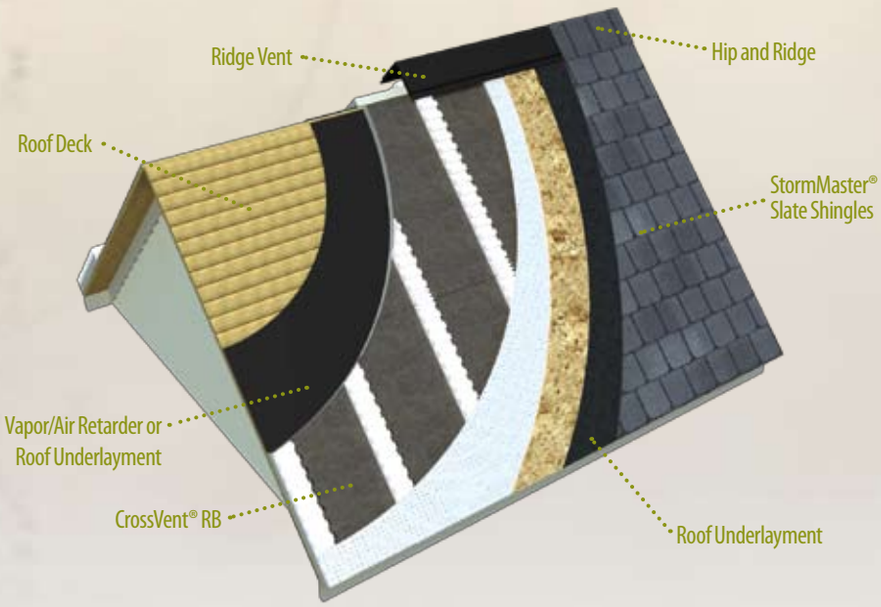
- ...polyiso insulation that provides unsurpassed thermal efficiency.
- ...a perforated, breathable, low-emissivity foil radiant barrier securely bonded to OSB.
- ...a radiant barrier panel that reflects up to 97% of the sun's radiant energy.
- ...an additional 7-10% savings annually on cooling costs.*
- ...a 20-year limited thermal warranty.

*Based on tests conducted by the Florida State Energy Center, University of Central Florida.

AtlasRoofing.com

CROSSVENT® RB

Up to a 38% potential heat flow reduction can make your R-20 roof seem like R-28.



Refer to Guide Details for Atlas Nailable Insulations for installation instructions and fastening requirements.
To determine the air space dimension, refer to the Ventilated Roof System Calculator on www.atlasroofing.com/nailable

CROSSVENT® RB LTTR VALUES

NOMINAL THICKNESS		in	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
		mm	64	76	89	102	114	127	140	152	165
LTTR-VALUES*	*With 1.0" Air Space		6.0	9.0	12.1	15.3	18.5	21.7	25.0	-	-
	RSI**		1.06	1.58	2.13	2.69	3.26	3.82	4.40	-	-
	*With 1.5" Air Space		-	6.0	9.0	12.1	15.3	18.5	21.7	25.0	-
	RSI**		-	1.06	1.58	2.13	2.69	3.26	3.82	4.40	-
	*With 2.0" Air Space		-	-	6.0	9.0	12.1	15.3	18.5	21.7	25.0
	RSI**		-	-	1.06	1.58	2.13	2.69	3.26	3.82	4.40
Pieces/Package			18	15	13	11	10	9	8	7	7
Square Feet			576	480	416	352	320	288	256	224	224

TOTAL PACKAGES PER 45' TRUCKLOAD-22

*Long-term thermal resistance values (LTTR) of the polyiso foam were determined in accordance with ASTM C 1289. All test samples were third-party selected and tested by an accredited materials testing laboratory. The thermal resistance of air spaces does not apply when the air space is unsealed and subject to air exchange into and out of the air space, as occurs by design in cross ventilating nail base insulation with a high percentage of open air space. Therefore, only the LTTR of the ACFoam®-II base layer is reported. See ASHRAE Handbook Fundamentals, 23.7 "Factors Affecting Heat Transfer Across Air Spaces."

R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation values before you buy. To get the marked R-value, it is essential that this insulation be installed properly. The Radiant Barrier is not a substitute for energy code required thermal resistance (R-value).

**RSI is the metric expression of LTTR (m2 • K/W)

NET FREE AREA OF VENTILATION PER LINEAR FOOT	
AIRSPACE DIMENSIONS	NFA/LF
1.0" Airspace	9.0 sq. inch
1.5" Airspace	13.5 sq. inch
2.0" Airspace	18.0 sq. inch

The NFA is derived by multiplying the air space dimension in inches by the length in inches of the CrossVent® board (less the spacing strips) and then dividing by eight, the length in feet of each panel.The ventilating capabilities of the soffit and ridge vents should be matched to the Net Free Area of ventilation (NFA) of the CrossVent®.

CODES AND COMPLIANCES

- Federal Specification HH-I-1972/GEN has been cancelled
- ASTM C 1289, Type II (Foam Insulation Portion)
- Miami-Dade County, Florida Product Control No. 08-0111.01 (with 19/32" plywood)
- State of Florida Product Approval #FL6796
- State of California, License #TC 1231
- IBC, NBC, UBC and SBC Sections on Plastic Foam Insulation (Chapter 26).
- FHA minimum property requirements
- ARMA insulated deck requirements
- APA/TECO rated OSB nailable surface

FM Standard 4450/4470 Approval (1-105, 1-90, 1-60)
ACFoam® CrossVent® RB Insulation is approved for Class 1 insulated roof deck construction. Refer to FM Approvals RoofNav for Roof System details.

UL Standard 1256 Classification
Insulated metal deck construction assemblies - Construction #458, #120 and #123.

UL Standard 790 Classification (ASTM E108)
For use with Class A, B or C shingles, metal or tile roof coverings.

UL Standard 263 Fire Resistance Classification (ASTM E119)
Some classifications for fire resistance are P225, P230, P259, P508, P510, P514, P701, P717, P719, P723, P728, P732, P734, P739, P801, P815, and P819. See UL Fire Resistance Directory.

CrossVent® RB is covered by one or more claims of Patent #5,433,050.

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