



raft-R-mate®

Attic Rafter Vents with Optional Air Stop/Insulation Block



Ventilation of Unconditioned Attics or Cathedral Ceiling Rafter Cavities

Description

Owens Corning's raft-R-mate® attic vent is an extruded polystyrene foam vent designed to assure unrestricted airflow from the soffit to the ridge vent. Additionally, raft-R-mate® attic vent has an optional bend down air stop/insulation block at the top plate of the wall. The optional air stop/insulation block prevents loosefill insulation from filling the eave space during installation of cathedral ceiling or attic floors, by closing off the opening below the raft-R-mate® attic vent to the soffit. It also helps to prevent "wind wash" which can cause attic insulation to be blown back off of the top plate causing unwanted heat loss around the perimeter of the attic.

Features

- Maintain ventilation through insulation
- Ventilation channel and air stop/insulation block in one easy to install product
- Resists moisture and will not rot or deteriorate
- Improve year-round comfort
- Increase the life of the roof
- Durable and break-resistant
- Sized to fit 24" and 16" on center framing
- Enable system to meet building code requirements for attic ventilation
- Install quickly and easily
- Appropriate for both new and retrofit construction

Technical Data

Dimensions	22.5" x 48"
Air Channel Depth ¹	1.5"
Net Free Air Flow ¹	22.3 sq. inches
Material	Extruded Polystyrene

1. Underwriters Laboratories, Inc. Classified Product - see Certificate U-210

Packaging

Packaging	Carton	10 Pk Carton
Vents per Pack	N/A	10 pc
Packs per Carton	N/A	7 pk
Vents per Carton	75 pc	70 pc
Cartons per Pallet	12 ct	12 ct
Vents per Pallet	900 pc	840 pc

Standards, Codes Compliance

- Typically building codes require that unconditioned attics or cathedral ceiling rafter cavities be provided with a minimum amount of ventilation. Ventilation is typically provided by some combination of gable, ridge and soffit vents. Inadequate ventilation may lead to excess heat and humidity in the attic or rafter cavity. These conditions may lead to the deterioration of the roofing materials and deck, insulation, structural framing members, or interior ceiling finishes
- For attics, the building code (IRC806.2) requires a minimum net free vent area of 1 sq. ft. of ventilation for every 150 sq. ft. of the space ventilated (1:150). This ratio can be reduced to 1:300 if a balanced soffit and ridge vent system or a properly placed vapor retarder is utilized
- For rafter cavity spaces, codes typically specify a required minimum air space of 1", between the insulation and the roof sheathing
- Check local building codes for specific requirements
- Combustible. raft-R-mate® attic vents meet building code requirements of ≤ 75 flame spread and ≤ 450 smoke developed. However, this product will ignite if exposed to fire of sufficient heat and intensity

Installation

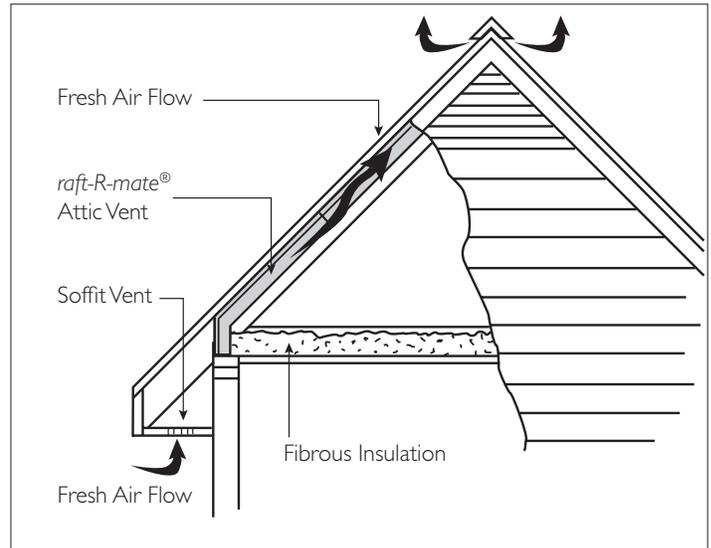
Installed properly against the underside of the roof deck, between roof trusses or rafters, raft-R-mate® attic vent will provide in excess of a 1" air space. Fibrous insulation can be installed directly against the surface of raft-R-mate® attic vent and raft-R-mate® attic vent will maintain a free airflow channel from the eave vent to the attic, ridge vents or gable vents. Due to its symmetrical design, raft-R-mate® attic vent can be split in half for 16" o.c. rafter spacing.

Installing Loosefill or Batt Insulation on Attic Floors

1. A single 4' length of raft-R-mate® attic vent should be installed in each rafter or truss space, at the ceiling line, to insure that the airway between soffit and attic space remains open.
2. The vent should extend some distance beyond the top of the horizontal fibrous insulation.
3. Optional air stop/insulation block. Bend down accordion hinge to meet the top plate and staple to the top plate exterior face or top eave. Add additional staples every 10"-12" into edge flanges. Staples must never penetrate completely through roof sheathing.

Installing Rafter Cavity Insulation in Cathedral Ceilings

1. Install raft-R-mate® attic vent in each rafter cavity beginning at the soffit area, to assure the vent remains open, continue up the cavity to the ridge vent or to a common air space.
2. Optional air stop/insulation block—When installing, bend down accordion hinge to meet the top plate and staple to the top plate exterior face or top eave. Add additional staples every 10"-12" into edge flanges. Staples must never penetrate completely through roof sheathing.
3. raft-R-mate® attic vent should be installed with an approximate 2" gap between the ends to allow moisture to escape more readily into the air channel. Reduce gap to ½" when using blown-in loosefill insulation.
4. Install cavity batt insulation so that the ends of the insulation do not occur in the location of the raft-R-mate® attic vent gap. This precaution minimizes the potential of the insulation expanding into the air channel and restricting airflow.



Design Considerations

Building location, climate, use and other factors will impact construction of the ceiling insulation and ventilation systems.

Always check with your local building department for required ventilation area in attics and rafter cavities, requirements for vapor retarders, and the acceptability of raft-R-mate® attic vents for the planned application.

Technical Information

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>, call 1-800-GET-PINK® or visit www.owenscorning.com.

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.owenscorning.com.

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