

Enkavent[®] 6128

Bonar Building Products — Radon Control

Description

Enkavent 6128 is a radon venting product consisting of a nylon core of fused, entangled filaments with a geotextile heat-bonded to one side. Enkavent matting is a 0.8" thick matrix point bonded with heat and pressure to a geotextile filter fabric. Ninety-five percent of the geomatrix is open providing a high airflow rate.

Recommended Applications

- Radon mitigation under concrete slab construction
- Hydrostatic pressure relief
- Radon mitigation in basement slab construction

Features and Benefits

- 95% air space for much higher air flow than aggregate
- High compressive strength — able to sustain the load of a 12" concrete slab
- Nylon filaments resist most soil chemicals and solvents
- Hinged crease for easy placement along foundation wall
- High flow system reduces the level of radon up to 97%

Technical Data

Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Thickness	0.80 in	20.4 mm
Total Weight	24.8 oz/yd ²	841.0 g/m ²
Core Weight	21.3 oz/yd ²	743.0 g/m ²
Bonar Compressive Load Test ¹	>30,000 psf	No failure* kN/m ²

¹ Bonar Test Method: ASTM D 1621 modified and ASTM D4716

* Failure defined as reaching yield point or no continued measurable flow under stated load

Technical Data

Fabric Properties

Property	English Units	Metric Units	Test Method
Polymer	PET		
Weight	3.5 oz/yd ²	118 g/m ²	ASTM D 3776
Grab Strength MD/CD	90.0 lbs	400 N	ASTM D 4632
Trapezoidal Tear	35.0 lbs	156.0 N	ASTM D 4533
Puncture Strength	45.0 lbs	200.0 N	ASTM D 4833
Mullen Burst	170.0 psi	1170.0 Kpa	ASTM D 3786
AOS (maximum average)	120.0 US Sieve	0.10 mm	ASTM D 4751
Flow Rate	170.0.0 gpm/ft ²	6921.0 l/sec/m ²	ASTM D 4491
Permittivity	2.3 sec ⁻¹	2.31 sec ⁻¹	ASTM D 4491
Air Permeability	400.0	400.0	cfm @ 0.5 in H ² O
Temperature Range	-100 to 250°F	-73 to 121°C	
pH Range	3 to 12	3 to 12	
Fabric Color	White		

Values are MARV Minimum Average Roll Value

Packaging

Property	English Units	Metric Units
Product ID	6128-101-000	
Core Width	18.0 in	45.7 cm
Length	100.0 ft	30.5 m
Area	16.7 yd ²	14.0 m ²
Roll Diameter	25.0 in	63.5 m ²
Gross Roll Weight	27.0 lbs	12.2 kg

Installation Procedure

- Unroll the Enkavent matting with fabric side down. Lay a continuous strip of Enkavent along the perimeter of the slab area.
- Nail to the perimeter walls at hinge. Adhere expansion joint stripping above the Enkavent matting. Lay an additional strip of Enkavent through the center parallel to the longest wall every 10 to 15 feet. Overlay the subfloor with a vapor barrier extending up the wall to meet the expansion joint stripping.
- Cut a 3 inch (8cm) hole in the barrier 8 inches (20cm) from the most appropriate corner. Glue a 4-inch (10cm) flanged riser pipe with a detachable cap to the vapor barrier and sitting on top of Enkavent. Pipe stub should be of sufficient length to extend above the top of slab poured. Install an additional riser pipe for every 2000 square feet of slab area. Pour the slab. Later, extend the vent pipe through the roof.

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