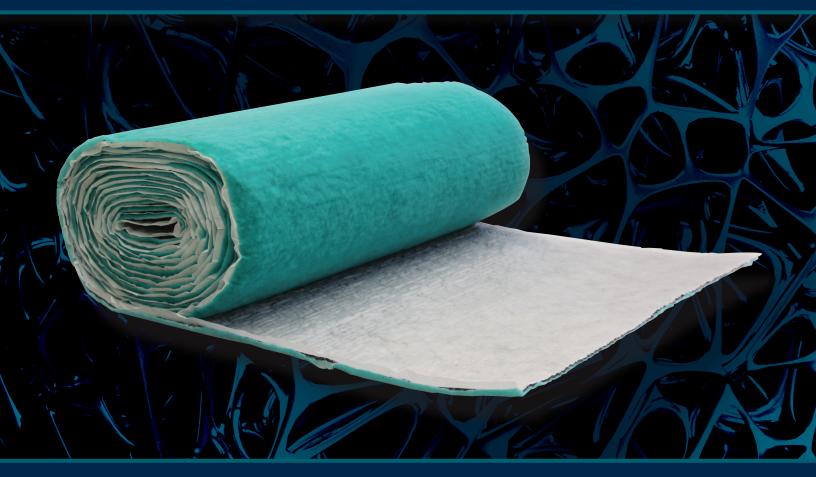


(800) 767-3703 Ward Hill, MA



VAPORMATTM

FOR RADON, MOISTURE AND VOC REDUCTION



SAVES TIME & MONEY

EASY TO INSTALL

>40% RECYCLED PRE-CONSUMER MATERIAL

LEED v4 CREDIT ELIGIBLE (1-2 POINTS)

COMPLIES W/RRNC 2.0 & IRC Appendix F

COMPLIES W/ANSI-AARST CC-1000 STANDARD

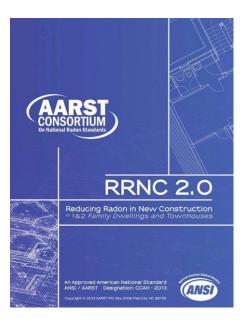
VAPORMAT™ Use in New Construction

RADON REDUCTION IN NEW BUILDING CONSTRUCTION

New construction radon standards, including the U.S. EPA-recommended ANSI-AARST Standard, RRNC 2.0: Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses, call for the installation of a soil gas collector beneath the slab. Also complies with ANSI-AARST CC-1000.

An increasing number of mitigation and construction contractors are using soil gas collector matting, choosing it for its easy installation. In addition, RRNC 2.0 (Section 402.1.1.2) recommends its use and further states: "The soil gas collector shall consist of a strip of geotextile drain matting not less than 10 feet (3 m) in length and having a cross sectional area of not less than 12 square inches (77 sq. cm). The strip of matting shall be placed on top of the soil or in a trench."

The VAPORMAT System, available in 0.4-inch and 1.1-inch thicknesses, meets and exceeds RRNC 2.0 and other standards for the collection of radon, moisture, and other toxic vapors that come from beneath the slab. It works effectively with both passive and active soil depressurization systems for residential, commercial or industrial building applications.



ADDITIONAL CONSTRUCTION CONSIDERATIONS

At minimum, consider placing a 6 mil or 3 mil cross-laminated flexible vapor barrier on top of the VAPORMAT prior to casting the slab or placing the floor assembly.

Typical entry routes for soil gases into a home are through floor openings, concrete joints, sumps, foundation walls, air handling units, ducts and crawlspace accesses. Take care to properly seal these entry points. Extend the vent stack at least 12 inches above the roof and at least 10 ft from any window or other opening to conditioned space. Routing the vent stack through heated space of the house creates a natural driving force to the soil depressurization system. Route the PVC pipe through and exiting the home following local fire codes.

Provide an electrical outlet in the attic space within 6 ft of the vent stack to allow for a fan to be added to activate the system if necessary.

VAPORMAT™ INFORMATION AND SPECIFICATIONS

The VAPORMAT System is enveloped in a filter fabric and is comprised of 95% air space, allowing the radon and other soil gases and vapors to be channeled to the riser pipe connection (Radon-T; see accessories on the back). Two sizes of VAPORMAT are available: 040-48 and 1-16.

Refer to back cover for additional specifications as well as product accessories.

VAPORMAT™ APPLICATION

The VAPORMAT System can be used where a pressure field is required across obstacles or over distances; in conjunction with sand and/or gravel; or in place of perforated piping for negative pressure field extension under a concrete slab or radon vapor barrier.

VAPORMAT™	040-48 (P/N 66105)	1-16 (P/N 66238)
Thickness	0.4 in	1.1 in
Width	48 in	16 in
Roll Length	50 ft	45 ft
Rolls per Pallet	10	24
Compressive Strength***	1,500 PSF*	150 PSF*
Determined Flow Rate	4 gallons/min/ft**	6 gallons/min/ft**
Determined Cross-sectional Area (void space)	29.04	15.76
Percent Recycled	>40% (pre-consumer material)	>40% (pre-consumer material)

^{*}Concrete slab typically 30-60 PSF **Per ASTM 4716

^{***}Maximum PSF rating where product is equivalent or greater than a cross-sectional area for a 3" or 4" pipe per RRNC and CC-1000.

VAPORMAT™ Installation Instructions

"T" JUNCTIONS, CORNERS, AND SPLICES (Fig. A)

The mat should be routed around the inside perimeter of the foundation. This will require an occasional corner or "T" junction. Furthermore, splices are recommended to join two lengths of mat together. Corners and splices are very easy to make, and do not require any special fittings. In the case of a splice, merely abut one section against the other, tape the seam [P/N 68017 (black), 68066 (white)], and staple with Anchoring Staples (P/N 66240) if needed for added security.

BRIDGING A FOOTING (Fig. B)

The method used to bridge a footing using VAPORMAT is by connecting the VAPORMAT to both sides of a horizontal pipe which cross-sects the footing wall.

CONNECTING VAPORMAT™ TO RADON-T (Fig. C,D,E)

The RadonAway® Radon-T (see back cover "Accessories") replaces ordinary pipe fittings as a base for RRNC and crawlspace systems, the Radon-T saddles over perforated pipe, provides better air flow, prevents blockage by construction debris, and is ideal for use with VAPORMAT.

POURING CONCRETE OVER VAPORMAT™

The filter fabric that is on the top and bottom of the VAPORMAT System inhibits soil, gravel and concrete from entering the material and reducing its air collection capacity. If vapor barrier is not used as an overlayment, care should be taken that the fabric is taped along the splices sufficiently to keep the uncured concrete from entering.

The VAPORMAT also needs to be secured to the soil with RadonAway® Anchoring Staples (P/N 66240) to prevent the concrete from lifting it off the soil while it is being applied. Reinforcing bars and wire can be laid right on top of the VAPORMAT or vapor barrier (if present).

VAPORMAT is designed to be installed and work in the following conditions:

- Under concrete slab
- Under concrete slab and vapor barrier
- Or in conjunction with sand and/or gravel

VAPORMAT has a high compressive

strength and performs well under compressive loads exceeding 150 pounds per square foot (PSF) and 1500 PSF for 1-16 and 040-48, respectively. The load of a typical

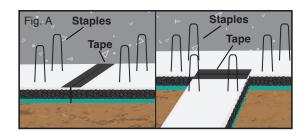
foundation slab is only 30 to 60 PSF. VAPORMAT provides maximum airflow and has an ASTM D 4716 determined flow rate of 4 gallons per minute per foot (gpm/ft) and 6 gpm/ft for 1-16 and 040-48, respectively. This high flow rate far exceeds the maximum rate at which ground air can flow through the soil from beneath the slab.

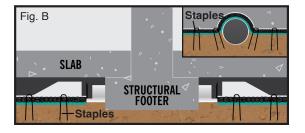
SECURING VAPORMAT™ AND RADON-T (Fig. C,D,E)

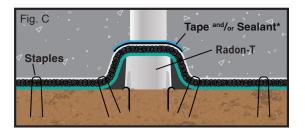
- Anchoring Staple spacing: Every 3' to 4' and at junctions
- Radon-T: Secure to subgrade with four 6" spikes provided with T

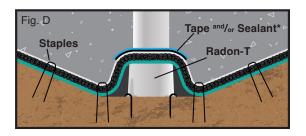
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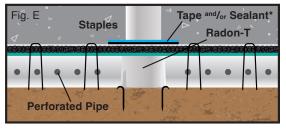
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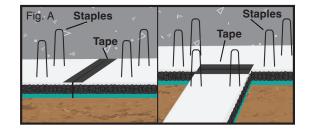




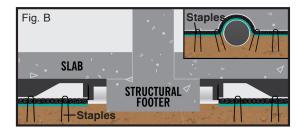


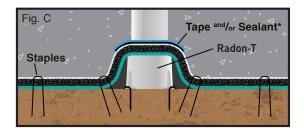


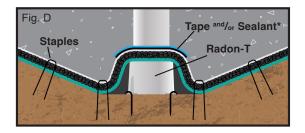
*See back cover for Accessories.

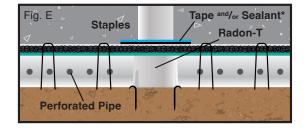


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ACCESSORIES & RELATED PRODUCTS



RadonAway Hybrid Sealant P/N 28523



Radon-T P/N 28353, 28354 Single, 12-Pack



Anchoring Staples P/N 66240 8", 8 gauge



Vapor Barrier P/N 28567, 28565, 28566 6 mil & 12 mil



TapeP/N 68017, 68066
Black, White

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