



**STRATA-Barrier 11mil Composite  
Class A Vapor Retarder  
Strata Systems, Inc.  
[www.geogrid.com](http://www.geogrid.com)**

**Division: 07260, 03300**

**1.0 PRODUCT NAME**

**STRATA-Barrier 11 mil Composite  
Vapor Retarder  
(Formerly Barrier-Bac VBC 250)  
Class A Vapor Retarder**  
*Exceeds ASTM E 1745 Class A, B, & C  
Vapor Retarder Specifications*

**2.0 MANUFACTURER**

STRATA SYSTEMS, INC.  
380 Dahlonga Road  
Suite 200  
Cumming, GA 30040 USA  
**Technical Assistance**  
Phone: (800) 680-7750  
Fax: (770) 888-6680  
[www.geogrid.com](http://www.geogrid.com)

**3.0 PRODUCT DESCRIPTION**

Uses: **STRATA-Barrier 11 mil Composite** is a high performance under slab vapor retarder developed for the construction industry to retard moisture migration through concrete slabs. It may also be used to control radon, methane, sulphates and many other soil contaminants. **STRATA-Barrier 11 mil Composite** Vapor Retarder provides a mechanical bond with concrete when placed with geotextile facing concrete pour.

**3.1 COMPOSITION**

**STRATA-Barrier 11 mil Composite** is manufactured to the highest standards with only high-grade virgin polyolefin resins. The manufacturing process for the **STRATA-Barrier 11 mil Composite** is a first melt, three layer, co-extruded, cross-laminated system. The membrane is then laminated with non-woven polypropylene geotextile.

**STRATA-Barrier 11 mil Composite** is manufactured in 10ft x 150ft rolls (1500 ft<sup>2</sup>).

**STRATA-Barrier 11 mil Composite** weighs approximately 168 lbs. per roll.

**4.0 TECHNICAL DATA  
Applicable Standards**

American Society for Testing & Materials (ASTM)

- **ASTM E 1745** Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.
- **ASTM E 154** Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as a Ground cover.
- **ASTM D 1709** Standard Test Methods for Impact Resistance of Plastic Films by the Free Falling Dart Method.
- **ASTM E 96** Standard Test Method for Water Vapor Transmission of Materials.
- **ASTM D 882** Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- **ASTM E 1643** Standard Practice for installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.

American Concrete Institute (ACI)

- **ACI 302.1R-96** Minimum Thickness (10 mil)

**Table 1: Physical Properties of STRATA-Barrier 11 mil Composite Vapor Retarder**

Thickness		25 mils
Peel Adhesion to Concrete	ASTM D 903	8lbs/in.
Tensile Strength	ASTM D 882	106lb/in.
Puncture Resistance	ASTM D 1709	3809grams
Vapor Barrier Classification	ASTM D 1745	Class A
Water Vapor Permeance	ASTM E 96	.012
Life Expectancy	ASTM E 154	Indefinite
Chemical Resistance	ASTM E 154	Unaffected
Radon Transmission Rate	ASTM D 1434	.079

## **5.0 INSTALLATION**

**STRATA-Barrier 11 mil Composite** shall be installed with non-woven geo-textile facing up over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6" and seal with STRATA-Barrier Seaming Tape or heat weld. All penetrations must be sealed with STRATA-Barrier membrane and STRATA-Barrier Seaming Tape per manufacturer's recommendations. Project specific details and recommendations provided by Strata Systems, Inc. upon request.

## **6.0 AVAILABILITY & COST**

**STRATA-Barrier 11 mil Composite** is available nationally through our network of building supply companies. Please contact our corporate office for a distributor in your area. **STRATA-Barrier 11 mil Composite** is cost efficient. Pricing is obtained by contacting your local **STRATA-Barrier** distributor or sales representative.

## **7.0 WARRANTY**

We warrant and guarantee our specifications as published, through the Inteplast Group, Livingston, NJ. Strata Systems, Inc.'s published test results are based upon accepted industry practice as well as the test methods called for and listed on our test documents. We believe to the best of our knowledge, that our published results are accurate and reliable and that they represent our vapor retarder membrane. Strata Systems, Inc. cannot control site conditions and improper installation practices. Therefore, no warranty, expressed or implied, is given, including those of merchantability, fitness for a particular purpose or any other matter with respect to the product.

## **8.0 MAINTENANCE**

No maintenance is required.

## **9.0 TECHNICAL SERVICES**

Technical services for all of our products are obtained by calling our corporate office.

**Corporate Office:**  
**(800) 680-7750**

## **10.0 FILING SYSTEMS**

**Strata Systems, Inc. brochures are available from STRATA-Barrier distributors, sales representatives, manufacturers, and our website.**

[www.geogrid.com](http://www.geogrid.com)