



1. Product Name

Iron-Barr RM / Under-Slab Gas and Vapor Barrier

2. Manufacturer

Flatiron Films LLC
 9630 Gerwig Lane / Columbia, MD. 21046
 Sales Technical Assistance
 P: 877-276-3456 / F: 410-381-3459 / W: flatiron-films.com

3. Product Description

Composition: Our patented barrier membrane is a specialty Multi-Ply 20 mil lamination, combining highly puncture resistant virgin polyolefin films (PP/PE/Metallocene blend), with 3 plies of metallized polyester film with high tech 2-sided barrier coating (no VOC) on each ply of METPET.

Uses: Iron-Barr RM is used as a under-slab Gas and vapor barrier and a protection course for below grade waterproofing applications.

Sizes: Iron-Barr RM standard roll is **2765 sqft, 90”x 368’** with custom widths available on request.

Weight: Approximately 150lbs/roll

4. Technical Data (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 D 1434-82 Standard test method for determining gas permeability characteristics of plastic film and sheeting.
- ASTM E 96 (method A) – Test Methods for Water Vapor Transmission of Materials.
- ASTM E 154-Test Methods for Water Vapor Retarders Used in Contact With Earth Under Concrete Slabs, on Walls, or as Ground Cover.
- ASTM E 631- Terminology of Building Construction.
- ASTM D 882- Test Methods for Tensile Properties Of thin Plastic Sheeting.
- ASTM E 1643-98 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth Or Granular Fill Under Concrete Slabs
- ASTM D 1709-Test Method for Impact Resistance of Plastic Film By free Falling Dart Method.
- American Concrete Institute ACI 302.1R-96- 10 mils Minimum Thickness

5. Environmental Factors

Iron-Barr RM can be integrated into Systems for the control of soil gases (radon, methane), soil poisons (oil by-products) and sulfates.

6. Installation

ASTM E 1643-98 installation guide lines must be followed

Under-slab: Unroll Iron-Barr RM Gas and Vapor Barrier over prepared aggregate, sand or tamped earth base. Side and end laps should be overlapped six inches and lap sealed with a 2” butyl tape and sealed using 4” wide DEVCOM Premium Seam Tape for an edge seam.(or approved alternate). All penetrations must be sealed using a combination of Devcom Premium seam tape and/or an approved mastic.

Vertical Wall: Install Iron-Barr RM Vapor Barrier over the waterproofing substrate. Mechanically fasten Iron-Barr RM to the wall at the top with termination bar and concrete nails. Hang Iron-Barr RM down across the Footer and under the French drain.

7. Price and Availability

Iron-Barr products are available via the internet at www.flatiron-films.com. Contact Flatiron Films Sales department for the latest complete information.

8. Warranty

Flatiron Films LLC warrants materials to be free of defects in manufacturing for a period of 1-Year from date of purchase and will replace or, at our option, refund the purchase price any materials proven to be defective. THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTY GUARANTEE EXPRESSED OR IMPLIED, INCLUDING: WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT WILL FLATIRON FILMS LLC BE LIABLE FOR INCIDENTAL CONSEQUENTIAL DAMAGES NOR SHALL LIABILITY, IF ANY, EXTEND BEYOND THE PURCHASE PRICE OF MATERIAL. FLATIRON FILMS LLC DOES NOT WARRANT THE WORKMANSHIP OF THE APPLICATOR.

9. Maintenance

None Required

10. Technical Service

Technical service and information may be obtained by contacting the tech services department or by visiting www.flatiron-films.com.

11. Filing Systems

www.flatiron-films.com

Physical Properties of Iron-Barr RM Under-Slab Gas and Vapor Barrier

| | |
|---|--------------|
| Property and Test ----- | Iron-Barr RM |
| Under-slab Vapor Retarders, ASTM E 1745 Class A ----- | Exceeds |
| Water Vapor Permeance, ASTM E 96 ----- | .00042 wvtr |
| Tensile Strength MD Dry, ASTM D 882 ----- | 105 lbf/in |
| Tensile Strength MD after soak, ASTM D 882 ----- | 98 lbf/in |
| Puncture Resistance, ASTM D 1709 ----- | 4350 grams |
| Chemical Resistance, ASTM E 154 ----- | Unaffected |
| Life Expectancy, ASTM E 154 ----- | Indefinite |



Proudly Made in the USA!

Start you building clean and green. Guard it using Iron-BARR RM!

We Build It Smarter, Stronger...BETTER!

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