



**1. Product Name**

**Iron-Barr 10 / 10 mil Class A 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 lamination, combining highly puncture resistant virgin polyolefin films (PP/PE/Metallocene blend), with a 2x-side metallized polyester film.  
**Uses:** Iron-Barr 10 is used as an under-slab vapor barrier and a protection course for below grade waterproofing applications.  
**Sizes:** Iron-Barr 10 standard roll is **5121 sqft, 90”x 682’** 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 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 10 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 10 Vapor Barrier over prepared aggregate, sand or tamped earth base. Overlap all seams a minimum of 6” and tape using Devcom Premium Seam Tape (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 10 Vapor Barrier over the waterproofing substrate. Mechanically fasten Iron-Barr 10 to the wall at the top with termination bar and concrete nails. Hang Iron-Barr 10 down across the Footer and under the French drain.

**7. Price and Availability**

Iron-Barr products are available at retailers nationwide. 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](http://www.flatiron-films.com).

**11. Filing Systems**

[www.flatiron-films.com](http://www.flatiron-films.com)

**Physical Properties of Iron-Barr 10 Vapor Barrier**

Property and Test .....	Iron-Barr 10
Under-slab Vapor Retarders, ASTM E 1745 Class A .....	Exceeds
Water Vapor Permeance, ASTM E 96 .....	.0029 wvtr
Tensile Strength MD Dry, ASTM D 882 .....	82 lbf/in
Tensile Strength MD after soak, ASTM D 882 .....	76 lbf/in
Puncture Resistance, ASTM D 1709 .....	3640 grams
Chemical Resistance, ASTM E 154 .....	Unaffected
Life Expectancy, ASTM E 154 .....	Indefinite

***We Build It Smarter, Stronger...BETTER!***

**Colorado Facility**

4699 Nautilus Court, Suite 402 / Boulder, CO 80302  
 p: 303.530.1748 / f: 303.530.1788  
 e: sales@flatiron-films.com / w: flatiron-films.com

**Maryland Facility**

9630 Gerwig Lane / Columbia, MD 21046  
 tf: 877.276.3456 (FILM) / p: 410.381.3456 (FILM) / f: 410.381.3459  
 e: info@flatiron-films.com / w: flatiron-films.com