



TECHNICAL DATA SHEET

PermaFeltSilver™		Limited Lifetime Warranty	
Basis Weight: 3.9oz/yd ² (+/-5%)		Roll Weight: 2.8lbs/square	
		Roll Size : 48" x 250'	
TEST	PRODUCT SPECIFICATIONS		TEST METHOD
Tensile Strength	MD 94 LB	CD 93 LB	ASTM D5034
Tear Strength	MD 33 LB	CD 30 LB	ASTM D4533
Pliability	Pass		AC 48 Sec. 4.3
Water Transmission	Pass		ASTM D4869
Water Ponding	Pass		AC48 Sec. 4.4
UV Weathering	180 Days		
Class A Fire Resistance	ASTM E 108, UL 790, UBC 15-2		

Consult technical representative
 Effective temperature range of -40F to 265F.
 Meets or exceeds testing standards ICC-ES AC 188, ASTM D226, and ASTM D4869.

SAFETY PRECAUTIONS

Read before use. Refer to MSDS for additional information
 Always follow good roofing practices. Comply with all OSHA or other standards & codes for roof work. Always use a Fall Protection System when working on roofs. PermaFeltGold™ may be slippery when wet or covered with mud, dust, frost, ice or snow. Use roof jacks with planks, toe boards or storage platforms secured to the substrate to prevent slippage of stored material. Stay away from power lines; do not contact with body or equipment. On steep pitched surfaces, roof jacks with planks should be used for standing. Follow all ladder safety standards and codes. Never leave scraps, wrappers or other debris on the roof surface. Dispose of waste in accordance with local regulations

PermaFeltSilver™ INSTALLATION GUIDELINES: FOR USE AS A REPLACEMENT FOR ALL ASPHALT FELTS

**Meets the following certifications: ICC-ES AC 188; Intertek (ASTM D226, UL790, ASTM E108)
 Intertek CCRR-1053, State of Florida FL6645**

PermaFeltSilver™ must be installed above properly ventilated spaces, as per local building codes, and is considered to be a vapor barrier. The roof deck must be swept clean of dirt and debris and be smooth and dry before installation. PermaFeltSilver™ is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch. A sharp, straight edge cutting blade is recommended for cutting PermaFeltSilver™. PermaFeltSilver™ should be installed when the ambient air and substrate temperatures, at the time of installation, are above 40°F (4°C). PermaFeltSilver™ is laid horizontally (parallel to the eave) with the print side up with 4 inch (10 cm) head laps and 6 inch (15 cm) side laps. Align head laps with the expected direction of flow of water in a shingling manner. PermaFeltSilver™ should generally be used at slopes of 2:12 or greater. Follow the codes for low slopes as defined as 2:12 to 4:12 and steep slopes greater than 4:12 applications. In normal wind zones, PermaFeltSilver™ is attached to the roof with roofing nails or staples having 1 inch (2.5 cm) diameter plastic or tin caps spaced at 6 inches (15 cm) on center on both head and end laps and 12 inches (30 cm) on center in the field area in the middle of the roll. Nails may be hand or machined applied but should be driven squarely into the deck to secure caps flush to the underlayment. In high wind zones, or coastal applications, decrease the spacing to 4 inches (10 cm) on center on both head and end laps with 12 inches (30 cm) on center in the field area. In areas subject to wind speeds in excess of 90 mph (145 km/h) (UBC), or wind speeds in excess of 110 mph (177 km/h) (IBC and IRC), PermaFeltSilver™ should be applied as per Sections: 1507.2.8.1 of the IBC and Section R905.3.3.3 of the IRC. For roofs required to have an ice barrier under the IBC or IRC, or a severe climate underlayment under the UBC, a self-adhered polymer modified bitumen sheet, complying with ASTM D1970 or the ICC-ES Acceptance Criteria for Severe Climate Underlayment (AC48) shall be applied. The severe climate underlayment shall be applied over the solid substrate in sufficient courses that the underlayment extends up the roof a distance equal to the distance inside the exterior wall line of the building that is specified in the appropriate section of the applicable code. The PermaFeltSilver™ underlayment shall overlap the severe climate underlayment. The use of staples without plastic caps (No. 16 gauge stainless steel staples with a minimum 7/16 inch (1.1 cm) crown) to attach PermaFeltSilver™ is permitted only when the final roof cover is to be installed immediately following the installation of PermaFeltSilver™. PermaFeltSilver™ should be covered by the final roof covering as soon as possible as it is not designed for indefinite outdoor exposure. It is recommended that the final roof covering be installed within 30 days of installation of PermaFeltSilver™. The procedures for new construction also apply for re-roofing applications after removal of the old roof covering and underlayments to expose the roof deck.

*No loose laid roof underlayment should be left uncovered. Final roof cover should be installed as soon as possible. Synthetic and asphalt felts are not intended for use as primary waterproofing membranes.

Disclaimer: The information presented herein has been compiled from sources considered to be accurate and reliable but is not guaranteed to be so. In practice, the differences in materials, substrates, storage conditions, actual site conditions and other factors outside of Perma "R" Products' control are such that Perma "R" Products assumes no liability, nor makes any warranty, express or implied for such information, recommendations or instructions related to its products. It is the users responsibility to determine the suitability of any material for specific purpose and to adopt such safety precautions as may be necessary.

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