

PRODUCT DATA SHEET



ROOFING FELT & UNDERLAYMENT DIVISION: 070000, 073005

1.0 PRODUCT NAME

Tri-Shield High Performance Roofing Underlayment

2.0 MANUFACTURER

ISI Building Products
401 Truck Haven Road
East Peoria, IL 61611

Engineering Assistance
Toll Free: 866-698-6562
Fax: 309-698-0065
www.isibp.com

3.0 PRODUCT DESCRIPTION

3.1 BASIC USE:

Tri-Shield is a cross-woven synthetic underlayment designed to replace 15 lb. felt underneath various types of roofing materials.

Tri-Shield is durable, tear resistant and lightweight.

3.2 COMPOSITION & MATERIALS:

Tri-Shield consists of HDPP laminated to point bonded PP coated with high COF co-polymers for traction and anti-slip polyolefin bottom coating.

3.3 SIZE:

Tri-Shield is available in 4' x 250' rolls.

3.4 WEIGHT:

Tri-Shield weighs approximately 19 lbs per roll.

3.5 BENEFITS & FEATURES:

Cross woven construction provides superior tear strength and durability compared to 15 lb. felt. 100% water/air resistant.

Covers 10-Squares per roll

4.0 TECHNICAL DATA

4.1 APPLICABLE STANDARDS:

- ASTM D 228 *Standard Test Methods for Sampling, Testing and Analysis of Asphalt Roll Roofing, Cap Sheets and Shingles used in Roofing and Waterproofing*
- ASTM D 146 *Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing*
- ASTM D 1922 *Standard Test Methods for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method*
- ASTM E 96 *Standard Test Methods for Water Vapor Transmission of Materials*
- ASTM D 1087 *Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal*

PROPERTIES	TEST METHOD	TRI-SHIELD
Thickness (Nominal)	ASTM D 1777	6 mil
Tensile Strength	ASTM D 228, ASTM D 146	MD 93 lbs / CD 99 lbs
Tear Strength	ASTM D 228, ASTM D 1922	Pass
UV Weathering	Accelerated Weathering	60 Days
Thermal/UV Stability	Thermal Stabilizers	Yes
Pliability	ASTM D 226	Pass
Liquid Water Transmission	ASTM D 4869	Pass
Permeability	ASTM E 96	Pass
Dimensional Stability	ASTM D 1087	Pass
Temperature Range	N/A	-40° F to 240° F
Class A Fire Rating	ASTM E 108	Pass

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- ASTM D 1777 *Standard Test Methods for Thickness of Textile Materials*
- ASTM E 108 *Standard Test Methods for Fire Tests of Roof Coverings*
- *Meets and Exceeds* ASTM D 226 and ASTM D 4869 requirements

5.0 INSTALLATION

PREPARATION:

5.1 Make certain the roof deck is clean, smooth, dry and free from debris and damages.

PLACEMENT:

5.2 Tri-Shield is laid horizontally (parallel to eave) with printed side up. Plastic cap fasteners recommended to secure properly. The plastic cap fastener should be a minimum of 1" in diameter.

5.3 Top and bottom overlap should be 4" as indicated on the product. Place the fasteners 2" in from the edge of the top and bottom laps. End overlaps should be 12" minimum and fastened at 12" OC, vertically along the overlaps and 2" in from the end of the top layer. Roofing nails are acceptable for metal roofs.

5.4 The plastic cap fasteners should be driven tight to the surface without cutting the sheet. For seams, joints or tears, repairs may be made by using flashing tape or equivalent.

5.5 Tri-Shield should be extended 12" past all hips and valleys.

5.6 Tri-Shield installed on less than 4:12 slopes should be applied in a double coverage method. Overlapping by the normal 4" application is acceptable and the use of staples will be sufficient. Fastening can be through both layers.

5.7 In areas when the requirement of the roof is to have an ice dam membrane or an ice barrier under Chapter 15 of the IBC, two layers of underlayment must be cemented together with a roofing cement complying with ASTM D 4586 and extended for at least 24 inches inside the exterior wall line of the building.

6.0 AVAILABILITY & COST

Tri-Shield is sold through construction supply houses across the United States and Canada.

Tri-Shield current cost information can be obtained by calling Tri-State Forest Products, Inc.

7.0 WARRANTY

15 Year Warranty. Contact Tri-State Forest Products, Inc. for further information.

8.0 MAINTENANCE

Tri-Shield requires no maintenance once installed.

9.0 TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling Tri-State Forest Products, Inc.

10.0 FILING SYSTEMS

Additional information is available from the manufacturer.

NOTE: To the best of our knowledge, the specification chart on page one lists typical property values and are intended as guides only, not as specification limits. ISI Building Products® makes no warranties as to the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

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