IB Roof Systems™
Flat Roofing Solutions

IB DECKSHIELD™
Technical Data Sheet

Product Description:
IB **DeckShield**™ is a dual-ply embossed and printed vinyl sheet that is laminated to a non-woven polyester fleece backing. The PVC is a calendared film construction and meets the physical performance values of ASTM D4434, Type II. Rolls are manufactured in a nominal 60 mil thickness.

Packaging:

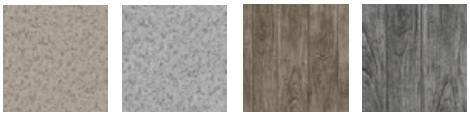
Size	Sq. Ft.	Weight per roll (approx.)
72" x 75'	450 sq. ft.	180 lbs.

Features:
- Meets the performance values of ASTM D 4434-12, Type II Thermoplastic Membrane
- 10-Year Material Warranty
- Excellent flexibility
- Textured Surface
- Dual-ply vinyl sheet construction, 17-mil weathering film laminated to the bottom film
- Thermally welded seams provide superior seam strength

Use:
IB **DeckShield**™ can be installed on residential and commercial exterior patios, decks, or balconies. Membrane must be fully adhered to a properly prepared substrate with approved membrane adhesive. Side laps and end laps must be heat fused together using compatible heat-welding equipment, methods, and application procedures. Refer to IB **DeckShield**™ Specifications for specific installation instructions and recommendations.

Warranties:
IB **DeckShield**™ has a '10-Year Limited Material Warranty' through IB Authorized Applicators.

Available Colors:



Cobblestone Pebblestone Cedar Grove Silver Maple

Approvals:
IB DeckShield™ meets AC-39 for walking decks, AC-75 for roof coverings and is listed with Intertek Code Compliance Research Report CCRR-0395.

Property	Method	Requirement	DeckShield™
Overall thickness of PVC sheet, min. (in.)	ASTM D638	0.045	1.5 mm (0.060)[A]
Breaking strength, min. kN/m (lbf/in.)	ASTM D751B	35 (200)	297 lbf/in MD 302 lbf/in XMD
Elongation at the break, min. %	ASTM D751B	15%	>250%[B]
Seam Strength, min. %	ASTM D751	75%	Pass
Retention of properties after heat aging (min. % of original): Breaking strength Elongation	ASTM D3045 ASTM D751B ASTM D751B	56 Days @ 80°C ≥ 90% ≥ 90%	 Pass Pass
Low temperature bend	ASTM D2136	-40°C	Pass
Accelerated weathering: (7x magnification)	ASTM G154	No cracking or crazing	Pass
Linear dimension change, max %	ASTM D1204	0.1% max	Pass
Water Absorption	ASTM D570	168 Hours @ 70°C ≤ 3.0%	Pass
Static puncture resistance:	ASTM D5602	≥ 33 lbf for 24 Hours	Pass
Dynamic puncture resistance:	ASTM D5635	≥ 10 J	Pass
Chemical Resistance: 20% Detergent 20% Salt 10% Muriatic Acid 10% Chlorine	ASTM D2299	No cracking or crazing	 Pass Pass Pass Pass
Abrasion Resistance Thickness Reduction:	ASTM D4060	<20 mil	Pass
ADA Slip Resistance Index (dry) Longitudinal Avg: Transverse Avg:	 ASTM F1679 ASTM F1679	 0° and 180° 90° and 270°	Wood Patterns / Stone Patterns 0.73 / 0.77 0.73 / 0.77

[A] The fleece backing on the membrane adds an additional 20 mils (0.020) to the overall thickness.
[B] Elongation of PVC material only.
The table presents typical properties of IB DeckShield™ PVC membranes. Requirements are taken from ASTM D4434-12.

Limitations:
The product is limited for use in areas that are subject to traffic loads generated by residential occupancies only (light pedestrian traffic). Any physical or chemical damage to the membrane must be repaired in accordance with the manufacturer's instructions. The product must not be installed with butt seam joints. Joints must be shingle-lapped to shed water.

Application:
Ensure substrates are clean, dry, and properly prepared in accordance with project requirements and IB specifications. Remove all debris, dirt, trash, or contaminants from surfaces prior to installation. Joints, knot holes, voids and cracks should be filled with compatible non-shrink grout filler or floor leveling compound and sanded smooth. Countersink fastener heads and fill in over heads to provide a smooth surface. Low areas, deflections in the substrate and deck imperfections should be corrected prior to application of above deck components.

1. Position IB **DeckShield**™ membrane over the prepared substrate. Align membrane to provide a minimum 1" side lap and 3" end lap if applicable. Fold membrane sheet back lengthwise so the underside of the membrane is exposed and apply IB membrane adhesive at the specified coverage rate to required surfaces.

2. Carefully roll the membrane back into position into the applied adhesive avoiding wrinkles or air pockets and broom the membrane immediately with a soft bristle push broom or linoleum type roller to achieve maximum contact with substrate.

3. Avoid application or contamination of seam areas and laps with membrane adhesive. Clean and remove all contaminants immediately and re-inspect prior to final welding and completion of the seam.

4. Additional adhesive may be required to maintain proper adhesion over rough or porous surfaces. Masonry and absorbent surfaces may require a light prime coat of adhesive allowed to fully dry, prior to application of membrane materials and bonding adhesives.

5. Continue with remaining courses lapping 1" on sides.

6. Position field membrane rolls to provide a minimum 3" overlap at end laps. At end laps, it is necessary to pre-melt the fabric backing off the membrane prior to forming the overlap at the ends of the sheet. Mark 3" on underside of the top sheet. Fold membrane sheet back and melt the fabric backing using a low heat setting. Once a smooth back surface has been attained, the membrane is ready for heat fusing the two layers together to form a complete weld.

7. Hot-air weld the IB **DeckShield**™ side and end laps using the Automatic Hot-Air Welding Machine or Hot-Air Hand Welder in accordance with the manufacturer's hot air welding procedures.

8. Hand welded seams and laps shall be rolled with a silicone roller during welding to ensure a continuous welded seam.

9. All seams and laps shall be visually inspected and physically probed after they have set and cooled. Probe all seams to locate cold welds or voids. Repair all seam deficiencies the same day they are discovered.

10. Continue to install adjoining membrane sheets in the same manner.

11. Follow IB **DeckShield**™ Flashing Details and procedures for all wall, curb, termination, and penetration flashings including metal edging/coping and drainage outlets using IB manufactured and supplied accessories.