

Technical Data Sheet: IB 50 mil Traditions™ Residential Single-Ply

Product Description: IB 50 mil Traditions™ Single-Ply is an ASTM D 4434-04, Type III polyester-scrim fabric reinforced, compounded resin based sheet with plasticizers, stabilizers, fillers, pigments and other proprietary materials, manufactured in a nominal 50 mil thickness, in 5.9' wide-by-90-foot (531 sq.ft.) rolls. IB 50 mil Traditions Single-Ply uses an anti-wicking polyester scrim for added strength and tear resistance that also minimizes moisture intrusion between the sheet's top film and bottom film layers. In addition, the top surface is coated with a durable acrylic coating that replicates the appearance of a laminate shingle.

Packaging: 531 sq. ft. rolls, 180 lbs./roll

Advantages:

- IB 50 mil. Traditions Single-Ply is an ASTM D 4434-04, Type III Thermoplastic Membrane
- Proven Single-Ply formulation for over two decades of performance
- 15-Year Material Warranty
- Excellent flexibility in all climates
- Superior UV Stabilizers resists harsh environmental elements
- Top surface is coated with a durable acrylic coating that replicates the appearance of a laminate shingle
- Can be used on new, recover and re-roof applications
- 56% thicker top film (above the scrim) layer versus other Single-Ply membranes
- Thermally welded seams provide superior seam strength

Use: IB 50 mil Traditions Single-Ply can be installed in new, recover, and re-roof constructions. IB 50 mil Traditions Single-Ply as part of a complete roofing assembly. The membrane can be used as the primary field membrane, as a stripping ply for flashings, and as a base flashing reinforcement at all roof to wall transitions. IB 50 mil Traditions Single-Ply can be fully adhered to a properly prepared substrate (insulation, cover-board, or other pre-approved materials) with approved membrane adhesive or mechanically attached with approved fasteners and membrane plates. Optional attachments are available but need to be pre-approved by IB Technical Services Department. All laps side and end laps are to be thermally welded using a hot air welder with a minimum weld width of 1-1/2".

Approvals and Listings: IB 50 mil Traditions Single-Ply is manufactured to comply with Underwriters Laboratories (UL®) fire rated Class 'A', 'B', and 'C' Approved Roofing Assemblies. It is listed with various component assemblies with UL and Factory Mutual (F.M. Global) for fire, wind uplift, impact, and chemical resistance. Visit our web site for links to these agencies and listings at: www.ibroof.com

Warranties: IB 50 mil Traditions Single-Ply has a '15-Year Material Warranty'. Contact IB Roof Systems at (800) 426-1626, or visit our web site at: www.ibroof.com

Available Colors: Sierra Vista and Stony Ridge.



Property	Method	Requirement	50 Mil
Overall thickness of PVC sheet, min. mm (in.)	ASTM D751	1.14 (0.045)	1.27 (0.05)
Thickness over the scrim, min. mm (in.)		0.40 (0.016)	0.635 (0.025)
Tensile strength at break, min. MPa (psi):			
Machine direction		—	—
Cross-machine direction		—	—
Breaking strength, min. kN/m (lbf/in.)	ASTM D751	35 (200)	65 (370)
Elongation at the break, min. %:	ASTM D751		
Machine direction		15 ^B	40
Cross-machine direction		15 ^B	38
Retention of properties after heat aging:			
Breaking strength, min. % of original		90	90
Elongation, min. % of original		90	90
Tearing strength, min. N (lbf)	ASTM D751	200 (45.0)	200 (45.0)
Low temperature bend	ASTM D2136	Pass	Pass
Accelerated weathering test:	ASTM G53		
Cracking (7x magnification)		None	None
Crazing (7x magnification)		None	None
Linear dimension change, max %	ASTM D1204	-0.04	-0.04
Change in weight after immersion in water, max %	ASTM D570	+/- 3.0	1.5
Static puncture resistance	ASTM D5602	Pass	Pass
Dynamic puncture resistance	ASTM S636	Pass ^C	Pass

A: Above the cross points of any fabric or fiber and the surface exposed to the weather.
 B: For reinforcing fabric only; elongation of PVC material shall be the same as Type II, Grade 1.
 C: For Type II, Grade 1 products, dynamic puncture shall be evaluated at an energy level to 10 J min. For Type II, Grade 2 and Type III products, dynamic puncture shall be evaluated at an energy level of 20 J min.