

ABAA Process for Approval of Air Barrier Materials, Accessories and Assemblies

5.1 Factory-Bonded Membranes to Sheathing

| Product Property | Test Standard | Test Standard Title | Unit | Requirement | |
|---|--|--|---|---|---------------------|
| | | | | Min. | Max. |
| Air Permeance | ASTM E2178-13 | Standard Test Method for Air Permeance of Building Materials | L/(s•m ²) at a pressure differential of 75 Pa (cfm/ft ² at a pressure differential of 1.57 psf) | - | 0.02 (0.004) |
| Pull Adhesion | ASTM D4541-09e1 | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers - <i>Specify substrate and surface preparation. Declare failure mode.</i> | psi (kPa) | 16 (110) or report value at substrate release | - |
| Peel Adhesion (of adjoining board transition material to factory-bonded laminated material) | ASTM D3330 / D3330M – 04 (2010) method F | Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape | lbf/in (pli) (N/mm) | 1.0 (0.175) | - |
| Water-Resistance Testing | AATCC 127-08 | Water Resistance: Hydrostatic Pressure Test for 5 hours | inches (cm) | pass @ 22 (pass @ 55) | - |
| Fastener Seal ability | ASTM D1970 / D1970M - 13 | Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection | - | Pass | - |
| Water Vapor Permeance | ASTM E96 / E96M - 12 | Standard Test Methods for Water Vapor Transmission of Materials (Water and Desiccant methods) | US Perms (ng/Pa•s•m ²) | Declare | |