INTELLO X

Commercial airbarrier membrane and high performance smart vapor retarder

TECHNICAL SPECS	Substance
Covers (both sides)	Polypropylene microfiber fleece
Membrane	vapor-variable polyethylene copolymer
Color	white
Roll Dimensions	59”W x 164’L (807 SF) 1.50m x 50m (75 m2)

Attribute	Standard	Value
Weight	DIN EN 1849-2	0.5 ± 0.02 oz/sf (150 g/m2 - ±5g/m2)
Thickness	DIN EN 1849-2	18 ± 2 mils (0.45 mm - ±0.05mm)
Airtightness	ASTM E2178	<0.00005 cfm/ft2
Average vapor resistance	DIN EN 1931	perm 0.44 (sd-value 7.50m ±0.25m)
Vapor variability	ASTM E96 (dry cup/wet cup)	0.17 perm/ 6 perm
	DIN EN 1931	Perm rate from 0.13m to >13.20m (Sd value from 0.25m to >25m)
Surface Burning Characteristic	ASTM E84	Class A Flamespread: 0 Smoke development: 105
Fire class	DIN EN 13501-1	E
Tensile strength	MD/CD DIN EN 12311-2	29 lb/in/ 19 lb/in 250 N/50 mm / 170 N/50 mm;
Elongation at break	MD/CD DIN EN 12311-2	60% / 60%
Nail tear resistance	MD/CD DIN EN 12311-2	27 lbf / 27 lbf 120 N/ 120 N
Durability / artificial age test	DIN EN 1296/EN 1931	passed
Temperature resistance		-40 F° to 176 F° / -40 C° to 80 C°
Thermal conductivity		1.18 BTU.in/hr.ft2°F/ (0.17 W/mK)
UV/Weather Exposure		2 months

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AREA OF APPLICATION

For use in commercial construction, metal studs, high rises, and panelized construction. As well as for roof renovations from the exterior. This smart vapor retarder can also be a temporary WRB or roof underlayment.

Provides highly insulated and airtight assemblies highest level of protection against moisture induced damages. Suitable for challenging constructions such as vapor closed flat/pitched roofs or walls as well as extreme environments such as high altitute locations, artic climates (climate zones 6,7,8)

Additionally suitable for all externally vapor open assemblies, e.g. with SOLITEX roof underlayments or WRBs, exterior jipsum board, wood fiber-insulation, OSB or plywood. Also suitable in extreme environments such as high altitude locations, artic climates (climate zones 6, 7, 8), and for masonry renovation.

CODE COMPLIANCE	
IRC 2015 - R702.7	Class II vapor retarder
IBC 2015 - 1405.3.1	Class II vapor retarder
NBC 2010 - 9.25.4.2 Vapor Barrier Materials	Complies with CAN/CGBS 51.33
CE label	Available

ADVANTAGES

- Intelligent vapor retarding membrane with best in class protection of fibrous/vapor open thermal insulation in roofs, walls and floors
- Largest vapor variability available
  - In dry winter conditions < 0.13 perm (Sd value 25m)
  - In summer > 13.2 perm (Sd value 0.25m) maximizing inward drying potential
- Can be used as a temporary roof during the construction phase for roof pitches of 3:12” pitches (>15 degrees) and higher - walkable and waterproof
  - rated for 2 month exterior and UV exposure
- Poly propelyene protective layers on both sides of smart retarder protect it from damages and UV exposure, and allow for durable tape bonds on both faces of the membrane
- Suitable for all types of batts (unfaced fiberglass, mineral wool, cotton, sheepswool, hemp, flax, etc), as well as

GENERAL CONDITIONS

Pro Clima INTELLO X should be laid with the printed side facing the installer. If insulation is installed on top of membrane, make sure the weight is supported by the structure, not the membrane itself (solid sheathing), or that the membrane is supported by battens in case of blown in dense packed insulation, with appropriate staple distances (2” o.c). For complete installation instructions visit www.foursevenfive.com or www.foursevenfive.ca.

Airtight seals can only be achieved on vapor control membranes that have been laid without folds or creases. When construction in winter, prevent excessive humidity (from concrete, drywall mudding, tiling etc) by opening windows or using a dehumidifier if necessary.

Assemblies using batt or rigid insulation should complete installation prior to INTELLO X membrane application. Blown-in insulation should be installed after INTELLO X membrane application. Insulation and membrane application should immediately follow one another in cold weather conditions. Follow the ProClima application matrix when making bonds. For support, hygrothermal advice and code compliance questions please contact info@foursevenfive.com/info@foursevenfive.ca