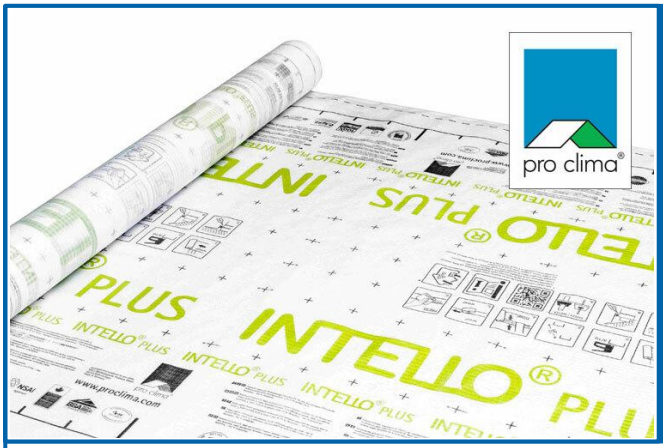
INTELLO PLUS



High performance
air barrier,
smart vapor retarder and
dense-pack reinforcement
all-in-one

ADVANTAGES & PROPERTIES

INTELLO PLUS provides roof and wall assemblies a previously unachievable degree of protection from moisture damage and mold, even in challenging assemblies and/or climatic conditions such as: unvented assemblies (asphalt shingles roofs, flat roofs, green roofs, valleys covered by ice & water shield, historic masonry walls), mixed humid climates with cold winters and air-conditioning requirements in summer, and extreme cold climates.

- Greatest vapor permeability variance available:
  - In dry winter conditions < 0.13 perm (Sd value: 25m)
  - In summer > 13.2 perm (Sd value: 0.25m) maximizing inward drying potential
- Durable airtight layer, part of ProClima's Intelligent Airtight System
- Hydrosafe protection - remains vapor retarding against winter phased construction moisture - 2.2 perms @ 70% RH
- Fleece layer protects smart vapor retarding layer during installation over rough wood
- Works with a wide range of insulation materials, including dense-pack cellulose, woodfiber, sheepswool, hemp batts, mineral wool, fiberglass, and more
- The semi-translucent material allows dense packed blown-in insulation to be inspected after installation
- Living Building Challenge Compliant — Red List Free
- PHI Certified Class A Passive House Component
- Complies with IBC, IRC and IECC 2021: ICC ESR-4854

SIZES & DIMENSIONS

	5' Short (10091)	5' Standard (10092)
Roll Width	59' (1.5m)	59' 1/16" (1.5m)
Roll Length	65' 7" (20m)	164' 1/2" (50m)
Roll Area	323 SF (30 m^2)	807 SF (75 m^2)

INTELLO PLUS

TECHNICAL DATA		
Protective and Covering Fleece	Polypropylene microfiber fleece	
Membrane	Vapor-variable polyethylene copolymer	
Reinforcement	Polypropylene non-woven fabric	
Color	Translucent white	
Attribute	**Norm**	**Value**
Surface weight	DIN EN 1849-2	0.36 oz/sf (110 g/m^2 - ±5g/m^2)
Thickness	DIN EN 1849-2	16 mils (0.4 mm - ±0.1mm)
Average vapor resistance	DIN EN 1931	Perm 0.44 (sd-value 7.50m ±0.25m)
Vapor Variability	ASTM E96 Procedure A (dry cup)	0.2 perm
Vapor Permeance	EN ISO 12572	Perm rate from 13 to <0.13 (Sd value from 0.25m to >25m)
Surface Burning Characteristic	ASTM E84	Flamespread: 0 Smoke development: 35 Class A fire class material
Air Permeance	ASTM E2178	0.00005 cfm/ft^2
Airtightness	ASTM E2357	<0.008 cfm/ft^2 at 75 Pa
		<0.05 L/sm^2 at 75 Pa
Tensile strength	MD/CD EN 13859-1 (A)	39 lb/in / 25 lb/in ; 340 N/5 cm / 220 N/5 cm
Elongation at break	MD/CD DIN EN 13859-1	15% / 15%
Nail tear resistance	MD/CD EN 13859-1 (B)	23 lb/in / 23 lb/in ; 200 N/5 cm / 200 N/5 cm
Durability / artificial age test	DIN EN 1296/1297	Passed
Temperature resistance		-40 F° to 176 F° -40 C° to 80 C°

CODE COMPLIANCE	
ICC - ESR 4854	Humidity-Dependent Vapor Retarder (AC528)
IRC 2021/2018 - R702.7	Class II vapor retarder
IBC 2021/2018 - 1404.3(1)	Class II vapor retarder
NBC 2020/2015 - 9.25.4.2	Passed CAN/CGSB 51.33
NBC 2020/2015 - 5.4.1	Passed air leakage <0.02 L/(s·m²) @75 Pa (ULC S741)
NBC 2020/2015 - 9.36.2.9	Passed air leakage <0.2 L/(s·m²) @75 Pa (ASTM E2357)

APPLICATION

Follow the INTELLO PLUS application guide found on www.475.supply. For all connections and overlaps use system components of ProClima's Intelligent Airtight System. Use TESCON VANA for overlaps, TESCON PROFIL for corner connections, CONTEGA HF to adhere to rough or uneven substrates, ROFLEX for pipes penetrations, etc. INTELLO PLUS functions as a vapor retarder and airtightness membrane used on the interior of roof and wall assemblies. It provides strong moisture protection in structurally challenging constructions like vapor impermeable flat/pitched roofs and is ideal for walls or roofs where drying to the exterior is not possible.

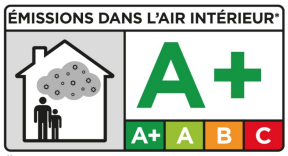
GENERAL CONDITIONS

Pro Clima INTELLO PLUS should be laid with the printed side facing the installer. It can be laid perpendicular to the sub-structure or parallel along it (such as along the studs). Membrane should be applied taut and without sags or creases. The maximum on center spacing of the structure behind INTELLO PLUS is 40"/100 cm. In densepack insulation applications, after the membrane is installed, battens should be fastened through the INTELLO PLUS into the structure to support the weight of the insulation. Battens should be less than 20"/50 cm on center. If long term tensile forces on the taped overlaps are expected by the insulation's weight, an additional batten should be mechanically fastened on each of those overlaps. Alternatively, the taped overlap can be reinforced with TESCON VANA tape applied at right angles (stitch taping) to the overlap every 12"/30 cm.

Please note: Airtight seals can only be achieved on vapor control membranes that have been laid without folds or creases. Prevent excessive interior humidity (e.g. during the construction phase) by providing sufficient ventilation. Natural ventilation is generally not adequate to quickly evacuate large amounts of construction-related humidity (curing concrete, tiling, drywall compounding, plastering etc). Use a dehumidifier if necessary.

To prevent condensation in cavities, INTELLO PLUS should be taped and sealed airtight immediately after installing the thermal insulation. This particularly applies when working in winter.

INTELLO PLUS



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes missions)