

CONSTIVAP PLUS



High performance vapor retarding air barrier with reinforcing layer for dense-pack insulation

BENEFITS

Provides structural and thermal protection to wall, roof, ceiling and floor assemblies. CONSTIVAP PLUS is a Class 2 vapor retarder and airtight membrane.

PRODUCT PROPERTIES

- Vapor retarding membrane with best in class strength for densepacking fibrous/vapor open thermal insulation in roofs, walls and floors.
- Offers insulated assemblies protection against damages and mold from diffusion and air leakage
- Durable airtight layer, with good surface tension for optimal tape adhesion.
- Very minimal bulging when used as dense-pack membrane because of reinforcement grid.
- Suitable for all types of batts (unfaced fiberglass, mineral wool, cotton, sheepswool, hemp, flax, etc), as well as for all types of insulation boards (wood fiber, mineral wool, glass wool, straw, etc)

DIMENSIONS	
Roll Width	59 1/16" (1.5m)
Roll Length	164' 1/2" (50m)
Roll Area	807 SF (75 m2)

TECHNICAL SPECS	
Cover	Polypropylene microfiber fleece
Membrane	Polyolefin film
Reinforcing	Polypropylene non-woven fabric
Color	Translucent white



475 High Performance Building Supply

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CONSTIVAP PLUS

Attribute	Norm	Value
Weight	DIN EN 1849-2	0.29 oz/sf (90 g/m ²)
Thickness	DIN EN 1849-2	8 mils (0.2 mm)
Vapor Permeance	DIN EN 1931	Perm rate - 0.17 (Sd value - 19m)
Fire class	DIN EN 13501-1	E
Tensile strength	MD/CD DIN EN 13859-1	350 N/50 mm / 285 N/50 mm; 40 lb/in / 33 lb/in
Elongation at break	BS EN 13859-1 (A)	15 % / 15 %
Nail tear resistance	BS EN 13859-1 (B)	240 N/ 200N ; 54 lbf / 45 lbf
Durability / artificial age test	BS EN 1296 / BS EN 1931	passed
Temperature resistance		-40 F° to 176 F° / -40 C° to 80 C°
Thermal conductivity		2.3 W/mK

CODE COMPLIANCE	
IBC 2015 - R702.7	Class II vapor retarder
IRC 2015 - 1405.3.1	Class II vapor retarder

APPLICATION

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. CONSTIVAP PLUS can be used as a vapor retarder and airtightness membrane for all externally vapor permeable membranes, e.g. with roof underlay (SOLITEX MENTO), wood fibreboard, or vented sheathing.

Caution: CONSTIVAP PLUS should be primarily used in combination with vapor open materials and membranes. Do not use in wall/roof assemblies that contain vapor closed materials that restrict the drying potential (flatroofs, greenroofs, vinyl wall paper). In cases of vapor closed assemblies it is recommended to use INTELLO PLUS. Please reach out to us at foursevenfive.com for further information.



GENERAL CONDITIONS

CONSTIVAP 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 rafters). Membrane should be applied taut and without sags or creases. The maximum on center spacing of the structure behind CONSTIVAP PLUS is 40"/100 cm. After membrane is applied, battens should be installed through the CONSTIVAP PLUS into the structure to support the weight of the blown insulation. The battens should be less than 20" on center (50 cm).

If long term tensile forces on the taped overlaps are expected by dense packed insulation's weight, an additional supporting batten should be placed on each of those overlaps. Alternatively, the taped overlap can be reinforced with TESCON VANA tape applied at right angles 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) and occupation by providing sufficient ventilation. Natural ventilation is in general 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, CONSTIVAP PLUS should be taped and sealed airtight immediately after installing the thermal insulation. This particularly applies when working in winter.

Additionally for blown-in insulation: Benefit of applying membrane parallel to substructure when installing dense packed insulation afterwards, is that all overlaps are mechanically fastened and secured to structural elements.