



Reinforced, paper-based, vapor variable, airsealing membrane for insulation between wood studs/joist

BENEFITS

- DB+ is an environmentally friendly option for the sustainable house builder.
- Works very well as vapor retarder for mineral wool, fiberglass, BIBS, cotton and sheepswool insulation.
- Reinforced layer allows it to be used as Cellulose blow-in mesh – follow application guidelines for best results – use counter battens to support DB+ to hold in the insulation.

PRODUCT PROPERTIES

- The principle raw material used to produce pro clima DB + is recycled paper which is strengthened with a bi-directional reinforcement layer.
- As vapor retarder and airsealing membrane in walls and (vented) roofs, in combination with all fibrous insulation materials
- Can be used with either, batts, boards and as mesh for blown-in insulation.
- Protects the interior of the building envelope in all climatic conditions, making it the perfect protection/airtight membrane for the thermal insulation
- Vapor retarding in winter - 0.8 Perm (sd value 4 m) - protection against condensation
- Vapor open in summer – 8.0 Perm (sd value 0.4m) - facilitates drying to the interior
- Lightweight and easy to install, especially compared to OSB/Plywood
- Fully recyclable
- Roll width 53-1/8" (1.35m)
- Roll length 164'-1/2" (50m)
- Roll area 724 Sq Ft (67.5m²)

TECHNICAL SPECS	
Membrane	Recycled paper (50% of weight is recycled)
Membrane additive	Poly-ethylene (free of halogens)
Mesh	Fiberglass
Color	Blue
Weight	0.6oz/sf (185/m ²)

TECHNICAL SPECS	
Layer	Material
Thickness	9 mil (0.23mm)
Variable perm rating	0.8 – 8.0 perm (average 1.43) Sd-value 4 – 0.4 (average 2.3m)
Tensile strength	550 N/50 mm / 300 N/50 mm ; 63 lb/in / 34 lb/in (longt./transverse)
Elongation	5% / 5% (longt./transverse)
Tear resistance	70 N / 70 N ; 16 lbf / 16 lbf (longt./transverse)
Thermal conductivity	1.10 hr.ft ² F/BTU.in (0.13 W/mK)

APPLICATION

Follow the DB+ application guide found on foursevenfive.com.

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.

DB+ can be used as a vapor retarder and airtightness membrane for all externally vapor permeable membranes, e.g. with roof underlay (pro clima SOLITEX MENTO), wood fibreboard, or vented sheathing. Additional suitable for a high level of protection against moisture induced failures in structurally challenging constructions such as diffusion-resistant flat/pitched roofs and for walls or roof with vapor retarding exterior sheathing (OSB or plywood).

GENERAL CONDITIONS

Pro Clima DB+ 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 DB+ is 40”/100 cm. After membrane is applied, battens should be installed through the DB+ into the structure to support the weight of the blown. 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.



DB+

To prevent condensation in cavities, DB+ should be taped and sealed airtightly 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.



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