

DUPONT™ AIRGUARD® REFLECTIVE E

A metallised vapour barrier

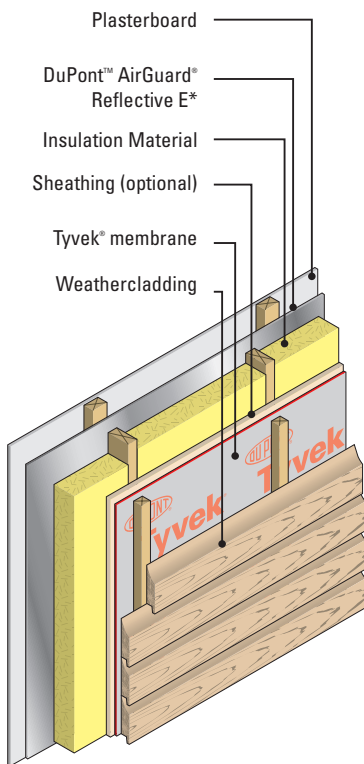


Boosting the thermal performance of building elements

DuPont™ AirGuard® Reflective E is a 100% air and vapour control layer for normal to extreme interior humidity climates that enhances thermal insulation performance and avoids condensation risks in roof and walls by blocking the vapor transfer.

Product	<ul style="list-style-type: none"> - DuPont™ membrane laminate technology - Sd-value: 2400 m, (Vapour resistance: 12000 MNs/g) - Roll: 1.5 m x 50 m
Insulation	Any type of insulation
External wind barrier	Diffusion open membrane, e.g. DuPont™ Tyvek® with or without ventilation or diffusion closed membranes e.g. Bitumenous felt with ventilation
Application	<ul style="list-style-type: none"> - Warm and cold pitched roof - Flat roof - Wall - Floor - Ceiling - For normal to high interior humidity levels
Benefits	<ul style="list-style-type: none"> - A high resistance AVCL - greatly limits vapour diffusion - High emissivity - helps to enhance thermal insulation performance by providing up to 0.67 m² K/W - Airtight and watertight - Superior mechanical strength - A lightweight and flexible material - easy to install - Reaction to fire: Class E - CE-conformity for vapour control layer (EN 13984)
Accessories	<ul style="list-style-type: none"> - Tyvek® Acrylic Tape - Tyvek® Double Sided Tape - Tyvek® Metallized Tape - Tyvek® Butyl Tape - DuPont™ FlexWrap NF

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* Reflective side faces cavity towards the plasterboard

Fig. 1 - Making good to floor joist penetrations

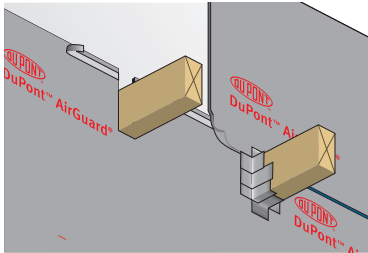


Fig. 2 - Wall to ceiling junction



Specifications

Style name	8314X
Roll size	1,50 m x 50 m, 9.5 kg
Mass per unit area	122 g/m ²
Water vapour transmission value (sd)	2400 m
Maximum tensile force MD	180 N / 50 mm
Maximum tensile force XD	160 N / 50 mm
Resistance to tearing MD	250 N
Resistance to tearing XD	260 N
Fire class	E
Temperature resistance	-40 / +80°C
Emissivity*	0,05

*A low emissivity value = high reflectivity = superior thermal performance.

For the CE conform Datasheets and Declaration of Performance please visit www.construction.tyvek.com

INSTALLATION GUIDELINES

Orientation

DuPont™ AirGuard® Reflective E should always face an airspace in order to take credit for additional thermal resistance due to the reflective surface. The membrane is installed on the warm side of the assembly, right below the insulation layer.

Continuity and sealing

Any air and vapour control layer (AVCL) should be installed so as to create a non-stop envelope. The complete inside surface area of walls, roofs and ceiling needs to be continuously covered with the membrane. Where appropriate, tapes should be used to ensure proper airtight sealing. Mechanical fastening is to be done with other means, preferably battens.

Batten space/Service void

For best practice the internal lining (plasterboard, etc.) should be spaced off the DuPont™ AirGuard® AVCL to create a service void. This will help to avoid penetrations through the membrane by electrical sockets, light switches, etc.

Battens (minimum 20mm) may be used for this. Note: An air space next to DuPont™ AirGuard® Reflective E is required to benefit from extra thermal resistance.

Penetrations and making good

Penetrations through the membrane should be kept to a minimum and any that are made should be sealed. All membrane laps, penetrations for pipework, wiring and electrical sockets should be made good with Tyvek® Acrylic Tape or DuPont™ FlexWrap NF. (Fig.1)

Detailing

Cover entirely the inside face of the wall, ensuring maximum coverage at all details. Overlaps of two AirGuard® layers will be common and should be a minimum of 100mm to ensure airtightness. All overlaps must be sealed with Tyvek® Metalised Tape or Tyvek® Double-sided Tape. (Fig. 2)

For more details please contact us.

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