

DuPont™ Tyvek® Metal (Product style 2510B)

General description

DuPont™ Tyvek® Metal can be termed a 'metal roof drainage membrane' for application into standing seam metal roof systems. The product consists of a Tyvek® vapour permeable membrane (Tyvek® Supro) bonded to an open mesh of polypropylene strands approximately 8mm deep. The function of the product is to provide protection to a roof structure and thermal insulation against condensation that may occur beneath rigid standing seam cladding of zinc, stainless steel, aluminium and copper.

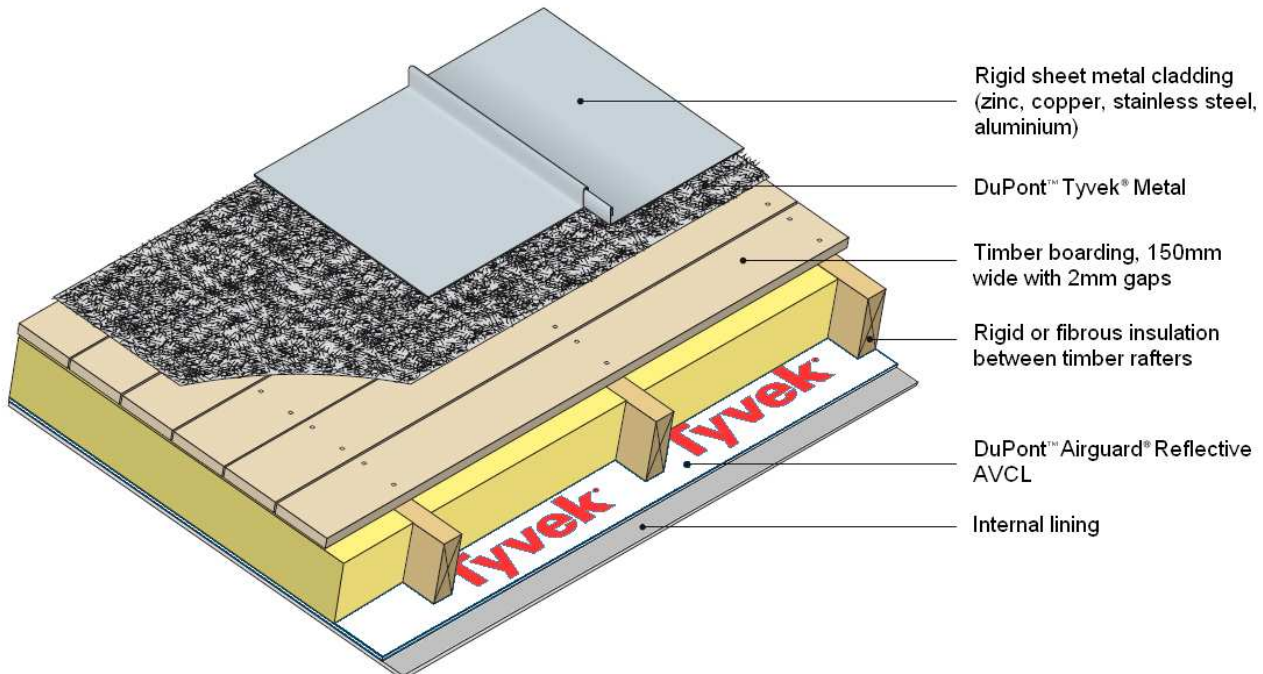
In addition to its drainage function, the product will provide suitable separation between layers by allowing movement between the metal sheet and timber boarding. DuPont™ Tyvek® Metal will also offer a reduction in sound transmission typically generated by structure borne sounds such as rain clatter.

Installation

The product is installed directly beneath the standing seam sheet, with the open mesh providing adequate support, whilst maintaining a clear airspace to allow any condensate to drain away. The vapour permeability of the membrane will allow water vapour from the construction beneath to diffuse through and into the mesh zone. To accommodate this 'breathable' function the supporting substrate beneath DuPont™ Tyvek® Metal must also be vapour open. A proven arrangement of 150mm timber boards with a 2mm gap is recommended for this purpose.

Controlling condensation

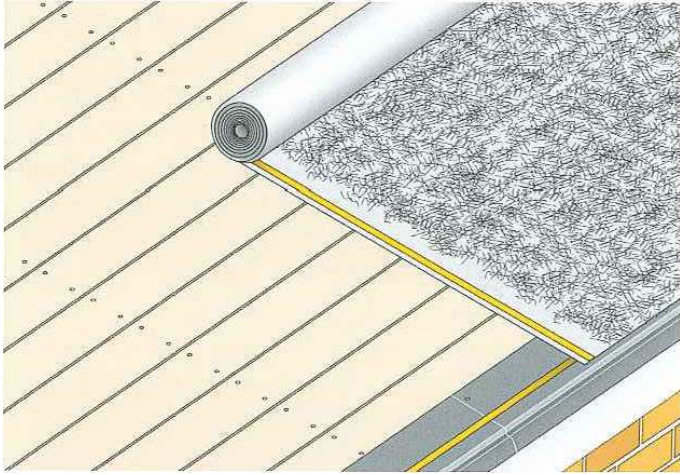
DuPont Tyvek® Metal does not eliminate the risk of condensation occurring in metal roof systems, but will minimise the risks of condensation build-up. A holistic approach to the design of the roof system should therefore be employed, with an emphasis on vapour control and airtightness in the internal lining. A suitable Air & Vapour Control Layer for this type of construction is **DuPont™ Airguard® Reflective**.



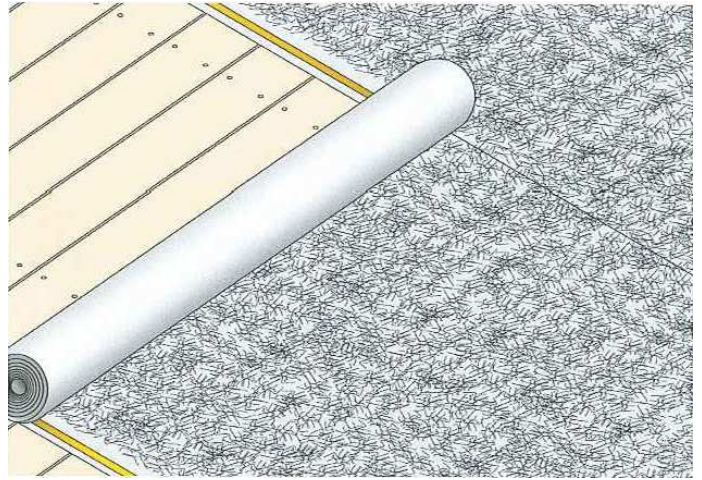
DuPont™ Tyvek® Metal Installation

Installation

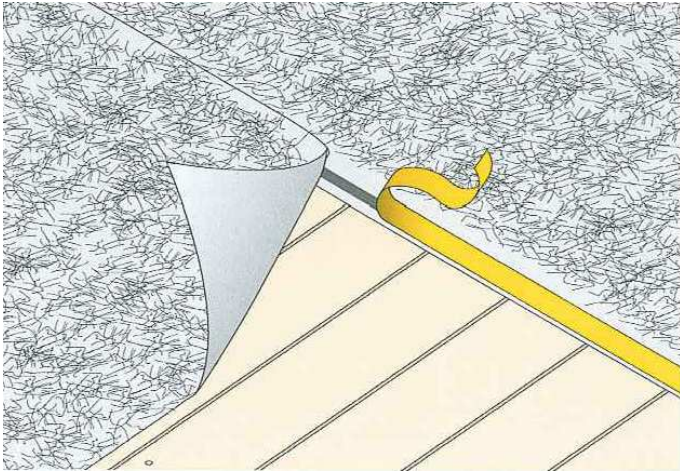
The fixing method for DuPont™ Tyvek® Metal is as follows:



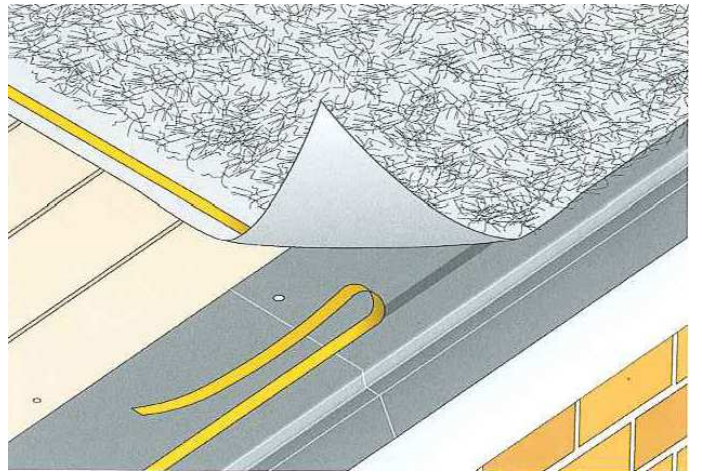
1. Install a UV resistant perimeter trim such as Tyvek® Eaves Carrier over fascia and gutter area. Lay the first run of Tyvek® Metal up and over the roof, with the bottom edge lapping onto the Eaves Carrier. Fix Tyvek® Metal to the timber boarding with stainless steel staples.



2. Lay the next run of Tyvek® Metal, lapping it 100mm onto the mesh-free selvedge of the first run.



3. Remove the backing paper from the self adhesive tape and press the lap down firmly to form a good seal. Carry out this procedure to seal Tyvek® Metal at all laps



4. and over the Tyvek® Eaves Carrier.

Notes:

- Drainage of moisture from DuPont™ Tyvek® Metal may also be achieved by forming a drainage slot in a soffit.
- DuPont™ Tyvek® Double Sided Acrylic Tape (1310D) is available for sealing the membrane to the Tyvek® Eaves Carrier as well as other details.

Please note: DuPont™ Tyvek® Metal is suitable for use only on a vapour-open supporting layer such as timber boarding, nominal 150mm wide with minimum 2mm gaps between.