DuPont™ Tyvek® Trifecta™ installation

NBS: H92 785, P10 320
Also: H20, H21, H30, H31, M30

Storage
Rolls of Tyvek® Trifecta™ should be stored palletised or on their sides on a smooth clean surface, under cover and protected from direct sunlight.

General
Care should be taken when handling the membrane in order to prevent tears and punctures. If any tears and punctures occur, please repair with DuPont™ AirGuard® FR System Tape (1310FR).

Application
Unroll Tyvek® Trifecta™ horizontally over the face of the construction, the black side facing outward. Ensure maximum coverage of membrane by extending 100mm minimum below the lowest structural timber/steel member.

Fixing – to timber studs/sheathing
Fix Tyvek® Trifecta™ with stainless steel staples or corrosion resistant nails; a rubber or EPDM washer should sit between the screw heads and the membrane to avoid water ingress. Alternatively, fixings can be applied in the overlap section. Fix membrane at 600mm centres horizontally, 300mm centres vertically and at 150mm centres at joints and openings.

Fixing – to masonry
Tyvek® Trifecta™ may be fixed to masonry with a suitable anchor fixing system or a masonry nail/screw and EPDM rubber washer. Fixings should be at maximum 500mm centres. Tyvek® 1310D double sided tape (20mm width) may be used in continuous vertical strips at 1200mm centres to provide complimentary adhesion to the substrate in conjunction with appropriate mechanical fixings.

Fixing – to steelwork (SFS)
Tyvek® Trifecta™ can be fixed to Steelwork with an appropriate mechanical fixing through to the steel structure, commonly suitable drill-tip or self-tapping screws may be used. The screws must sit flush (not countersunk) and a rubber or EPDM washer should sit between the screw heads and the membrane to avoid water ingress. Screw fixings should be spaced vertically at 500mm centres on every stud (typically spaced at 600mm horizontal centres).

Fixing – Rainscreen Cladding Applications
Tyvek® Trifecta™ may be fixed to the external face of a cement bonded particle board, external Gypsum board or other Euroclass A1/A2 rated mineral boards, using a sheathing appropriate fixing. Appropriate fixings range from stainless Steel Staples for denser boards to drill-tip or self- tapping screws (with soft washers). See Fixing – to steelwork (SFS) above. or Tyvek® double sided tape (1310D) can be used to seal laps at perimeters.

Tyvek® 1310D double sided tape (20mm width) may be used in continuous vertical strips at 1200mm centres to provide complimentary adhesion to the substrate in conjunction with appropriate mechanical fixings Initial fixings are preferable in the lap line or covered with AirGuard® FR System Tape (1310FR) to protect the membranes integrity.

In many cases, the retrospective fixing of cladding brackets (& insulation) will provide the principle security for the membrane. Care should be taken to ensure these components are fixed tightly over the membrane to avoid water ingress.

Laps
All horizontal laps should be 100mm. Vertical laps should be 150mm minimum.

For additional information on our product(s) and guidance on how to use them you may wish to refer to our step by step Installation Guide and videos. This and other useful information is on our web site:

https://www.dupont.co.uk/

For help with a project please contact the DuPont Building Knowledge Centre. (Contact details can be found at the end of this Installation Sheet).
Breather Membrane to EN 13859-2:2014 shall be DuPonte Tyvek® Trifecta™ as supplied by DuPont Performance Building Solutions, HERE, 470 Bath Rd, Arno's Vale, Bristol. BS4 3AP. UK Description decrease the amount of labor needed for the job. With faster skinning time than other LiquidArmor Flashing and Sealant products, this allows greater flexibility in installation.

External corners
Dress Tyvek® Trifecta™ around external corners ensuring a return of 300mm minimum window openings.

Window openings
Wrap Tyvek® Trifecta™ into window/door openings and seal to frame with Tyvek® Acrylic Tape (2060B), AirGuard® FR System Tape (1310FR) or Tyvek® Window Tape (1310PT) if render is later to be applied. Make good to corners using Tyvek® FlexWrap EZ.

Cavity barriers/trays/flashings
Dress Tyvek® Trifecta™ over cavity barrier/tray/flashing ensuring a minimum lap of 100mm. Seal with AirGuard® FR System Tape (1310FR) or Tyvek® double sided tape (1310D).

Floor junctions
Dress Tyvek® Trifecta™ over intermediate floor zone ensuring a minimum lap of 100mm between sheets. Seal with AirGuard® FR System Tape (1310FR) or Tyvek® double sided tape (1310D).

Airtightness – sealing (optional)
Tyvek® Trifecta™ is airtight. With all laps and penetrations sealed, Tyvek® Trifecta™ will significantly contribute to the overall airtightness of the building.

Seal the laps of Tyvek® Trifecta™ with AirGuard® FR System Tape (1310FR) or Tyvek® double sided tape (1310D).

Fixing penetrations can be sealed by patching with AirGuard® FR System Tape (1310FR). Complicated penetrations may be sealed using a separate piece of Tyvek® Trifecta™ sealed at the perimeter with AirGuard® FR System Tape (1310FR).

Compatibility
Where timber treatments are used care should be taken to ensure they are touch-dry before the installation of the Tyvek® membrane. Retrospective spray-applied micro emulsions can also pose significant risk to polymer-based materials such as Tyvek®. Masking the membrane against preservative treatments should be considered.

Temporary exposure period
Tyvek® Trifecta™ may be left exposed for a period not exceeding 12 months, provided that the membrane is adequately secured in accordance with our recommendations. Site conditions and exposure to wind should be assessed to determine whether extra security measures for the membrane are required.

Fire regulations
Tyvek® Trifecta™ has Fire Classification A2-s1,d0* in accordance with EN 13501-1:2007+A1:2009. Care should be taken to determine suitability of this membrane for the intended application, with specific regard to building height and proximity to boundary. Users/specifiers should familiarise themselves with their regional regulatory guidance documents, paying heed to any requirements or variations that may affect the use of this product.

*Over any A1/A2 mineral board substrate tested to EN13501-1, see classification report for details.

Video installation link: https://www.dupont.co.uk/resource-center.html?BU=pbs&restype=video

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DUPONT Tyvek®

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www.energy-efficiency.dupont.com

* Installed on mineral board with EN 13501-1 fire class A1 and A2-s1, d0. The use with DuPont™ AirGuard® FR system tape (1310FR) for sealing the overlaps is included in the certificate.

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