

DuPont™ Tyvek®



**YOUR HOME DESERVES
LIFETIME PROTECTION**



www.tyvek.co.uk
www.construction.tyvek.com

Tyvek.



Unique manufacturing process by DuPont

DuPont™ Tyvek® breather membranes offer protection during construction and over the life of a building. All the key requirements for a high performance breather membrane are built right into the very nature of Tyvek®. Unique because of its high-quality polyethylene single functional layer, Tyvek® is naturally vapour-open but water-tight. This is due to its composition of millions of micro fibres that are bonded together to make a «maze» that's impermeable to water and yet allows water vapour to pass through the natural pores in its structure. Robust, resistant to UV damage and general wear and tear, Tyvek® offers peace of mind with reliable protection.

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Your home deserves lifetime protection



An underlay provides a vital secondary water shedding function

Roofing and wall underlays are an important element of high quality pitched roof and cladding constructions. Although these windproof and waterproof membranes only make up an extremely small part of the total thickness of wall and roof structures, their functions in terms of building physics are absolutely vital and need to be preserved for the lifetime of the element they are part of.

- An underlay has to facilitate absolute watertightness of the roof and wall
- An underlay has to protect the insulation thus promoting energy efficiency
- A breather membrane is an important element in maintaining a healthy indoor climate over many years

What are the risks when your underlay fails?



Building structure degradation: mould and mildew.



Indoor water damages

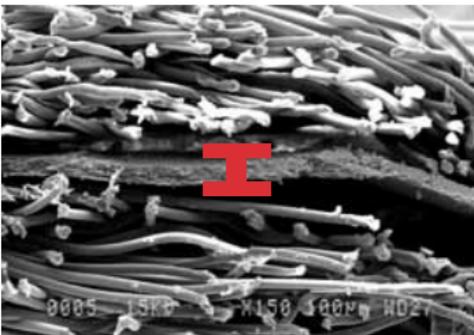


Insulation inefficiency

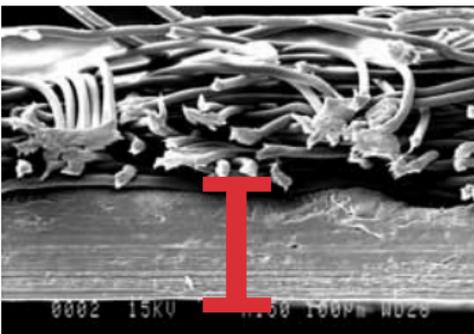


Don't risk your roof with anything that won't stand the test of time

Whether underlays are supplied as single layer or multi-layer, it is the quality and the thickness of the functional layer which takes care of windproofing, waterproofing and vapour breathability. **Its quality and thickness are key to the durability and effectiveness of the membrane as a whole.**



*Standard multi-layer Membrane:
30 microns (internally measured)*



*Tyvek® Supro: 175 microns
(internally measured)*

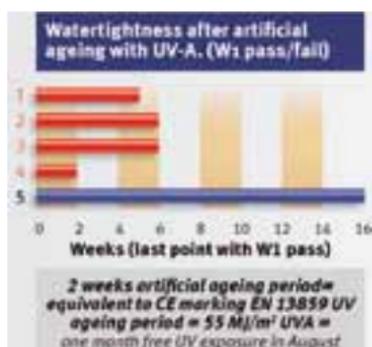
However resistant to tearing or elongation during installation a product may be, it can take only a few weeks for the key functionality of watertightness to be degraded. The main factors impairing the effectiveness of underlays are temperature and UV radiation.

DuPont™ Tyvek® Proven durability



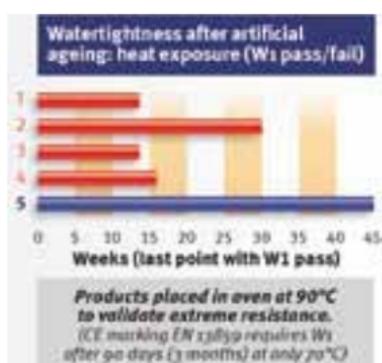
A comprehensive ageing testing programme has been commissioned by DuPont Building Innovations to “SP Technical Research Institute of Sweden (Chemistry and Materials Technology – Polymer technology division)

Not all underlays are what they seem to be



- 1: 140g/m² - multi layer PP
- 2: 122g/m² - multi layer PP
- 3: 140g/m² - multi layer Polyolefin
- 4: 145g/m² - multi layer Polyolefin
- 5: Tyvek® Supro 145g/m² HD-PE & PP

All Tyvek® membranes clearly outperformed tested multi-layer alternatives in terms of watertightness after a very long term exposure period to ultra violet radiation. Tyvek® underlays resist more than 16 weeks of UV exposure (accelerated artificial ageing), a meaningful sign of durability.



- 1: 140g/m² - multi layer PP
- 2: 122g/m² - multi layer PP
- 3: 140g/m² - multi layer Polyolefin
- 4: 145g/m² - multi layer Polyolefin
- 5: Tyvek® Supro 145g/m² HD-PE & PP

Tyvek® underlays continue to demonstrate superior resistance and keep their pole position in terms of superior durability. By reaching more than 45 weeks of heat exposure at 90°C, without failing



(double the achievement of some multi-layer products tested) Tyvek® demonstrated long life efficiency.

What makes DuPont™ Tyvek® so special?

1. Tyvek® offers a unique thickness and quality of the functional layer

DuPont™ Tyvek® offers a functional layer which is ca. 6 to 8 times thicker than most common multi-layer products. Most common multi-layer underlays are composed of a very thin functional layer (ca. 3 times thinner than a human hair) laminated between external protective layers.

2. Tyvek® has a unique structure

Tyvek® is composed of millions of microfibers that create a “maze” which guarantees a proper and homogeneous spread of UV and heat additives to offer superior durability throughout the product thickness.

3. Tyvek® has a proven resistance to UV and to heat

Most multi-layer underlays are made of PP (polypropylene) which is naturally more sensitive to UV than PE (polyethylene). The Tyvek® functional layer is made of 100% high UV and heat stabilized PE.

4. Tyvek® membranes resist temperatures of up to 100°C

At times, temperatures above the insulation may exceed 80°C. Temperature highly degrades the functionality of underlays.

5. Made by DuPont – a guarantee of quality

The success of Tyvek® results from a unique manufacturing process using flash-spunbond technology – and over 20 years of experience in the underlay market from a company renowned for pioneering innovation and a commitment to quality and ethical practice.

Achieve optimal airtightness and long-term performance



Why is airtightness so important?

As we progress into the future with more energy efficient and sustainable building methods we are becoming more aware of the shortcomings of uncontrolled air leakage.

The European Commission made commitments to reduce carbon emissions through the European Energy Performance of Buildings Directive (EPBD).

It shall assist upon request Member States in setting up national or regional financial support programmes with the aim of increasing energy efficiency in buildings.

Due to this regulation, the requirements on the energy performance of buildings have been increased. Because of air leakage from the building interior heat losses through





convection can occur. Choosing the right air and vapour control layer (AVCL) will help create a thermally efficient, condensation-free structure.

Installing one of the DuPont™ AirGuard® AVCL generics will keep your insulation and wall structure dry and can help to reduce energy consumption. On top of choosing the right AVCL it is important to make your building envelope airtight and windtight by sealing gaps between and around insulation layers, AVCL's and breather membranes. With DuPont accessories you can choose the right products to complement and enhance DuPont™ Tyvek® building envelope solutions. The adhesive tapes are specially designed for use with DuPont membranes to help reduce uncontrolled air leakage.



Product Portfolio

DuPont™ Tyvek® roofing underlays



- Tyvek® Supro / Supro Plus
- Tyvek® Metal
- Tyvek® Enercor® Roof



DuPont™ Tyvek® solutions for Timber Frame and wall construction



- Tyvek® Housewrap
- Tyvek® Soft
- Tyvek® Reflex
- Tyvek® UV Facade

**DuPont™ AirGuard®
air & vapour control
layer (AVCL)**



NEW!

DuPont™ AirGuard® Smart

DuPont™ AirGuard® Control

**DuPont™
AirGuard® Reflective**



DuPont Accessories



Tyvek® Acrylic Tape

Tyvek® Metallised Tape

Tyvek® Double Sided Tape

Tyvek® Butyl Tape

Tyvek® UV Facade Tape

Tyvek® Eaves Carrier

DuPont™ FlexWrap NF

Application table DuPont membranes

Applications	Tyvek® Supro	Tyvek® Supro Plus	Tyvek® Metal	Tyvek® Enercor® Roof
Pitched roofing				
Tiled/Slated roofs				
supported	✓	✓		
unsupported	✓	✓		✓
Metal roofs				
profiled cladding	✓	✓		✓
standing seam			✓	
Scottish boarded roofs	✓	✓		
Walls				
Timber frame	✓	✓		
Metal frame	✓	✓		
Masonry	✓	✓		
Internal insulation upgrade	✓	✓		
Suspended timber floor	✓			

Highly recommended to improve energy efficiency

* for internal use only (Internal lining)

** for use as a separation layer only

Tyvek® House- wrap	Tyvek® Soft	Tyvek® Reflex	Tyvek® UV Facade	DuPont™ AirGuard® Smart	DuPont™ AirGuard® Control	DuPont™ AirGuard® Reflective
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DuPont™ Tyvek® Supro / Plus

The market-leading breather membrane

- Extremely water-resistant
- Airtight
- Vapour-permeable
- Providing superior air and moisture management for commercial and residential buildings
- Durable (see independent test results at www.tyvek.co.uk)
- For all supported and unsupported pitched roof applications - warm, hybrid and cold roofs
- For scottish sarking board systems
- For low pitched metal roofs, wall and floor applications

Properties

Style name	2507B
Composition	Composite of High Density Polyethylene, Polypropylene
Roll size	1.5 m x 50 m
Roll weight	12 kg
Mass per unit area	145 gr/m ²
UV exposure	4 months
Product- / Functional layer thickness	450 / 175 µm
Water vapour transmission (Sd)	0.015 m
CE marking	Yes
BBA certificate	No 08/4548
IAB certificate	No 04/0157

functional
layer thickness
175µm





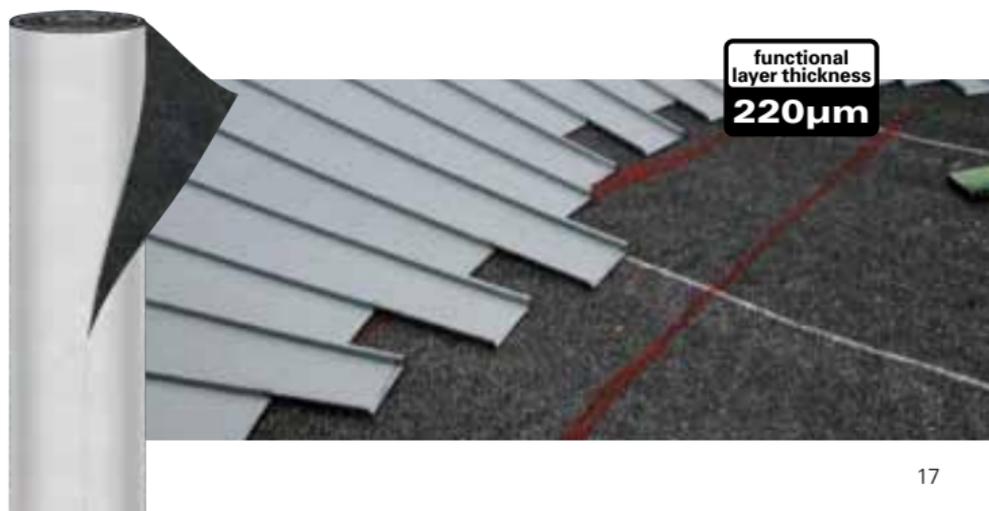
DuPont™ Tyvek® Metal

A vapour-permeable drainage membrane

- With integrated tape
- Water-resistant
- Airtight
- Vapour-permeable
- Allows condensation beneath stainless steel, aluminium, copper and zinc roofs to drain away
- Should be installed over 150 mm wide timber boarding with 2 mm gaps between
- For use as drainage membrane beneath standing seam metal sheets roofs over timber boarding

Properties

Style name	2510B
Composition	Composite of HighDensity Polyethylene, Polypropylene nonwoven and open mesh spacer
Roll size	1.5 m x 25 m
Roll weight	11.5 kg
Mass per unit area	350 gr/m ²
UV exposure	4 months
Product- / Functional layer thickness	7.40 / 0.22 mm
Water vapour transmission (Sd)	0.03 m
CE marking	Yes



functional
layer thickness
220µm



DON'T RISK YOUR ROOF!
DuPont™ Tyvek® roofing underlays

DuPont™ Tyvek® Enercor® Roof

Boost the thermal performance of your building

- Metallised surface
- Reflects up to 85% of radiant heat - increased summer comfort
- Very low emissivity of 0.15
- Vapour-permeable
- High durability performance of the metal layer due to protective top coating
- High resistance to corrosion
- High mechanical durability
- High rain protection

Properties

Style name	2537M
Composition	Composite of High Density Polyethylene, and Polypropylene with metallised surface
Roll size	1 m x 50 m
Roll weight	8 kg
Mass per unit area	150 gr/m ²
UV exposure	4 months
Product- / Functional layer thickness	450 / 175 µm
Water vapour transmission (Sd)	0.02 m
Emissivity	0.15
CE marking	Yes
BBA certificate	08/4548

functional
layer thickness
175µm



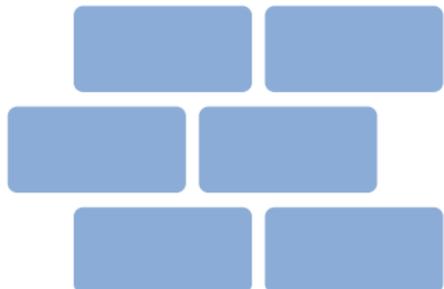
Get your house covered. And let it breathe



DuPont™ Tyvek® solutions for Timber Frame Wall Construction

Timber Frame Construction is one of the leading construction methods in Europe. Because of its architectural diversity, light weight structure, interior comfort and speed of construction, Timber Frame Construction is becoming more and more important.

The protection of the insulation and wall structure from external weather conditions and the effects of condensation are essential. In timber frame wall constructions, a breather membrane must be 'vapour-open' so as to allow water vapour to pass through to outside atmosphere whilst at the same time be water resistant.



DuPont™ Tyvek® Housewrap

The ideal vapour-permeable timber frame wall membrane

- Highly permeable to water vapour - can be fixed directly to insulation (sd-value: 0.01 m)
- Windtight and water resistant
- Enhances the airtightness of the construction
- Lightweight, flexible and easy to install
- Should be surface applied, fixed directly to sheathing ply /OSB, insulation or blockwork
- Can be left uncovered for up to 4 months while retaining full performance
- Long-term performance
- Suitable for steel-frame and concrete structures

Properties

Style name	3060B
Composition	High Density Polyethylene
Roll size	1.4 m x 100 m / 2.8 m x 100 m
Roll weight	9 kg / 18 kg
Mass per unit area	63 gr/m ²
UV exposure	4 months
Product thickness = Functional layer thickness	175 µm
Water vapour transmission (Sd)	0.01 m
CE marking	Yes
BBA certificate	No 90/2548
IAB certificate	No 02/0144

functional layer thickness
175µm





DuPont™ Tyvek® Soft

Lightweight vapour-permeable breather membrane

- Windtight and water resistant
- Lightweight, flexible and easy to install
- Provides superior air and moisture management for commercial and residential buildings
- Long-term performance
- Suitable for walls in timber frame, metal frame, masonry and internal insulation upgrade

Properties

Style name	1560B
Composition	High Density Polyethylene
Roll size	1.4 m x 100 m / 2.7 m x 100 m
Roll weight	9 kg / 18 kg
Mass per unit area	58 gr/m ²
UV exposure	4 months
Product- / Functional layer thickness	175 µm
Water vapour transmission (Sd)	0.015 m
CE marking	Yes



functional
layer thickness
175µm

DuPont™ Tyvek® Reflex

The right reflective breather membrane

- Windtight and water resistant but vapour-open
- Low emissivity surface (0,12) results in highly reflective product (88 %) for improved thermal comfort
- Enhances the airtightness of the construction
- Lightweight, flexible and easy to install
- Can be left uncovered for up to 4 months while retaining full performance
- Long-term performance

Less insulation needed for the same effects > increased insulation value without increased wall thickness

U-Values of entire wall construction achieved with 89mm STUD (and 89 mm fibrous insulation)

Insulation	λ (W/mK)	U-value (W/m ² K)		
		Standard Membrane	Tyvek® Reflex	Tyvek® Reflex + DuPont™ AirGuard® Reflective
Mineral Roll	0.044	0.45	0.39	0.32
	0.038	0.41	0.37	0.29
Mineral Batt	0.037	0.42	0.35	0.30
	0.035	0.40	0.34	0.29
	0.032	0.39	0.32	0.28
PIR	0.023*	0.34	0.30	n/a

■ good ■ normal ■ poor

* PIR insulation 70 mm thick and foil faced to leave 20 mm service void.
The U-value calculation shows how the metallized product offering can help you to achieve a lower U-value compared to a standard membrane.

Conclusion:

Installing Tyvek® Reflex

→ **~11% U-value reduction**

Installing Tyvek® Reflex + DuPont™ AirGuard® Reflective

→ **~28% U-value reduction**



Properties	
Style name	3583M
Composition	High Density Polyethylene with metallised surface
Roll size	0.48 m x 100 m 1.50 m x 100 m 2.7 m x 100 m
Roll weight	4.2 kg / 13.1 kg / 25 kg
Mass per unit area	84 gr/m ²
UV exposure	4 months
Product thickness = Functional layer thickness	220 µm
Water vapour transmission (Sd)	0.03 m
Emessivity	0.12
CE marking	Yes
BBA Certificate	No 90/2548



DuPont™ Tyvek® UV Facade

Protection for open and ventilated rainscreen cladding

- According to EN13859-2, the membrane had to pass an artificial aging test by UV of 5000 hrs (for a standard wall/ roof application it is 336 hrs), followed by a 90 days exposure to 70° C. The membrane retained its full performance.
- Windtight, water resistant and vapour-permeable
- For joint width of up to 3 cm
- Enhances the airtightness of the construction
- Lightweight, flexible and easy to install
- Long-term performance
- Suitable for open or ventilated cladding in timber, metal, stone and other materials

Properties

Style name	2524B
Composition	Composite of High Density Polyethylene, and Polypropylene
Roll size	1.5 m x 50 m / 3.0 m x 50 m
Roll weight	15 kg / 30 kg
Mass per unit area	195 gr/m ²
UV exposure	see details on technical datasheet
Product- / Functional layer thickness	660 / 220 µm
Water vapour transmission (Sd)	0.035 m
CE marking for facades with open joints	Yes
BRE certificate	No 155/10

functional layer thickness
220µm



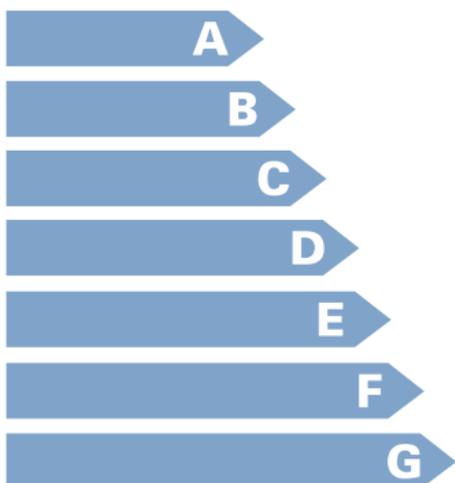
Control the climate in your building.



Energy Efficient Solutions from DuPont™ AirGuard®

Build airtight and condensation free

Air & vapour control layers (AVCL's) suitable for roofs, walls and floors help to reduce convective heat losses but also provide highly engineered vapour control for breathing systems. When installed continuously with all laps and penetrations sealed, an AVCL will provide effective condensation control and airtightness for all building types. With an ever increasing requirement to conserve energy the portfolio of DuPont™ Tyvek® products can help you achieve these environmental goals.



NEW! DuPont™ AirGuard® Smart

AVCL with variable vapour resistance

- Extreme vapour resistance range from 0.26 MNs/g to more than 150 MNs/g, (s_d value 0.05 m - more than 30 m), therefore highly adaptable → one of the widest vapour resistance spans known in the market
- Combines drying-out and vapour control function in one layer
- High drying-out potential = high protection against structural damage
- High tensile strength offering superior insulation support/retention
- Very robust - offering versatility in site work
- Airtight
- Transparent allowing the timber members to be easily located for fixing
- Easy to install - suitable for use in roof or wall constructions

Properties

Material	DuPont™ Tytar®, functional film, spun bond PP
Style	8407A
Product designation acc. to EN 13984	Type B
Roll size	1.50 m x 50 m/11 kg
Reaction to fire	E
Mass per unit area	139 g/m ²
Water vapour resistance range	0.26 MNs/g for humid environment (s_d 0.05m) more than 150 MNs/g for dry environment (more than s_d 30m)
Temperature resistance	from -40°C to +80°C
Maximum/Minimum tensile force (MD/XD)	360/300 N/50 mm
Resistance to tearing (MD/XD)	310/330 N
CE marking	Yes





DuPont™ AirGuard® Control

Strong AVCL for optimal airtightness in roofs, walls and floors

- Limited vapour transmission
- Airtight and water resistant
- CE-conformity for plastic and rubber vapour control layer (EN 13984)
- Superior mechanical strength
- Reaction to Fire: Class E
- Lightweight - easy to install
- Reduces convective heat losses
- Reduces risk of condensation into the insulation

Properties

Style name	8327AD
Composition	DuPont™ Typar® spunbond & Ethylen-Butylacrylate Copolymer
Roll size	1.5 m x 50 m
Roll weight	8.5 kg
Mass per unit area	108 gr/m ²
Water vapour transmission (Sd)	2 m
CE marking	Yes
BBA certificate	No 08/4548 and No 90/2548





DuPont™ AirGuard® Reflective

AVCL which boosts your thermal insulation

- Highly vapour resistant
- Airtight and water resistant
- CE-conformity for plastic and rubber vapour control layer (EN 13984)
- Reflects ca. 95% of radiant heat
- Superior mechanical strength
- Reaction to Fire: Class E*
- Considerably reduces risk of condensation into the insulation
- Considerably reduces convective heat losses

Properties

Style name	5814X
Composition	Composite of Polypropylene, Polyethylene and an aluminium foil
Roll size	1.5 m x 50 m
Roll weight	12 kg
Mass per unit area	149 gr/m ²
Emissivity**	0.05
Water vapour transmission (Sd)	2000 m
CE marking	Yes
BBA certificate	No 08/4548 and No 90/2548

* Installed on mineral wool.

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



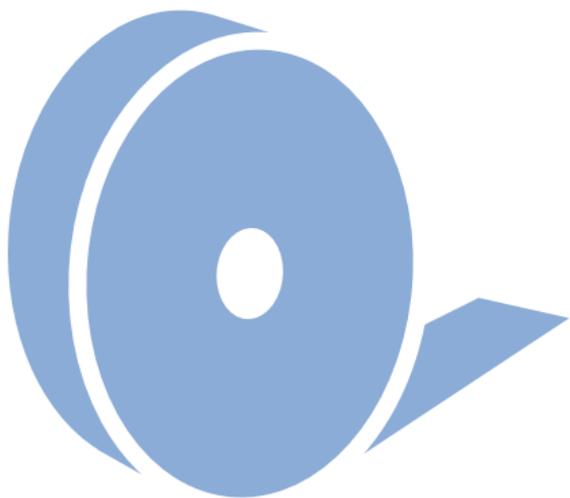
Our accessories are essential.



DuPont Accessories

Create airtight and watertight seals with DuPont Accessories

The energy efficiency of domestic and non-domestic buildings is to a great extent dependant on the continuity of materials used in the building envelope. The DuPont range of accessories has been developed to compliment and enhance building envelope solutions with Tyvek®. It helps to reduce uncontrolled air leakage through the building envelope.



Application table DuPont accessories

Applications	Tyvek® Acrylic Tape
DuPont™ Tyvek® roofing underlays	
Tyvek® Supro / Plus	✓
Tyvek® Metal	✓
Tyvek® Enercor® Roof	
DuPont™ Tyvek® solutions for Timber Frame and wall constructions	
Tyvek® Housewrap	✓
Tyvek® Soft	✓
Tyvek® UV Facade	
Tyvek® Reflex	
DuPont™ AirGuard® air & vapour control layer (AVCL)	
DuPont™ AirGuard® Smart	✓
DuPont™ AirGuard® Control	✓
DuPont™ AirGuard® Reflective	
Materials	
Masonry/concrete/render (smooth)	✓
Brick/block/concrete (rough)	
Plasterboard	✓
Eaves Carrier	
Window/door frames	✓
Metal surface	✓
Timber (rough sawn)	
Timber (planed)	✓
Details	
Pipe penetrations (plastic)	✓
Pipe penetrations (metal)	✓
Wiring/cable penetrations	✓
Chimneys	
Chimneys (making good corners)	✓
Around electrical sockets	✓
Other	
Damage repair	✓
Nail penetration*	
Laps sealing	✓

* Under batten



Tyvek® Metallised Tape	Tyvek® Double Sided Tape	Tyvek® Butyl Tape	Tyvek® UV Facade Tape	Dupont™ FlexWrap NF
	✓	✓		✓
	✓	✓		✓
✓	✓	✓		✓
	✓	✓		✓
	✓	✓		✓
	✓	✓	✓	
✓	✓	✓		✓
	✓	✓		✓
	✓	✓		✓
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	✓	✓		✓
✓			✓	
		✓		
✓	✓		✓	



Tyvek® Acrylic Tape



- Single-sided tape for sealing overlaps and making good around penetrations, pipes and windows. Recommended for most DuPont™ Tyvek® breather membranes and DuPont™ AirGuard® air & vapour control layers (AVCL's).
- Made of Tyvek® and acrylic adhesive for a durable bond.

Colour:	white
Roll size:	75 mm x 25 m
Rolls per box:	6

Tyvek® Metallized Tape



- Single-sided reflective tape for sealing laps in Tyvek® Enercor® Roof and Tyvek® Reflex and DuPont™ AirGuard® Reflective.
- Ideal for making good around penetrations, pipework, windows and doors
- Made of metallised Tyvek® and acrylic adhesive.
- Provides a durable bond.

Colour:	silver
Roll size:	75 mm x 25 m
Rolls per box:	8

Tyvek® Double Sided Tape



- Double-sided acrylic tape ideal for sealing overlaps and bonding Tyvek® membranes to smooth surfaces.
- Excellent adhesion properties under extreme humidity conditions.
- Strong initial tack
- Recommended for Tyvek® UV Facade, but suitable for all Tyvek® membranes and DuPont™ AirGuard® AVCL products

Colour:	transparent
Roll size:	50 mm x 25 m
Rolls per box:	10



Tyvek® Butyl Tape



- Double-sided butyl based sealant, used to form a moisture and air-tight seal between a Tyvek® membrane or DuPont™ AirGuard® AVCL and most commonly used building materials.
- The product is compatible with brickwork, blockwork, masonry, timber, metalwork and most plastic products.
- Tyvek® Butyl Tape is most effective when used under compression, eg. under a timber batten and is recommended for use at perimeters, chimneys, abutments and for sealing nail penetrations and around electrical sockets.

Colour:	black
Roll size:	20 mm x 30 m / 50 mm x 30 m
Rolls per box:	8 (20 mm x 30 m) / 4 (50 mm x 30 m)

Tyvek® UV Facade Tape



- Single-sided acrylic tape with high UV resistance.
- Especially designed for sealing Tyvek® UV Facade overlaps, penetration and joints in a durable and non-contrasting manner.
- Excellent ageing and outdoor performance.

Colour:	Black
Roll size:	75mm x 25m
Rolls per box:	8

Tyvek® Eaves Carrier



- Preformed black semi-rigid eaves protection sheet installed over the fascia board under-lapping the Tyvek® membrane by 150 mm.
- Recommended for long-term durability against UV degradation from direct sunlight, whilst offering support to the membrane to eliminate ponding at the tilt position.

Dimensions:	230 mm x 1.3 m
Thickness:	1.3 mm
Sheet weight:	0.67 kg



DuPont™ FlexWrap NF



- High performance flexible self adhesive flashing tape.
- Considerably helps to facilitate the creation of airtight and water tight seals around windows, doors, chimney breasts, pipe penetrations and any custom shapes.
- Designed to ensure continuity, compatibility and integrity with all Tyvek® breather membranes and DuPont™ AirGuard® AVCL, as well as PP non-wovens and laminated membranes at penetrations.

Colour:	black / white
Roll size:	150 mm x 22.9 m
Rolls per box:	1



Energy Efficient Buildings

Commitment to sustainable solutions

At DuPont we are committed to continuously develop and present new science-based solutions that support sustainable growth and meet new building codes and European regulations regarding energy efficiency in buildings.

New application field:

DuPont™ Energain® thermal mass panel:

- Saves energy costs: Can help reduce heating consumption by up to 15% or air conditioning costs by up to 35%*.
- Summer comfort: Can help improve comfort by stabilising the effects on room temperature by up to 7°C*.
- Easy to install: Lightweight, flexible, versatile - as easy to install as plasterboard.

Made by DuPont - a guarantee of quality

The success of Tyvek® results from a unique manufacturing process using flash-spunbond technology - and over 20 years of experience in the underlay market from a company renowned for pioneering innovation and a commitment to quality and ethical practice.

Since 1802, DuPont has used science to develop durable solutions and offer innovative products to enable a more comfortable, safe and healthy life.



For additional information please contact:

DuPont™ Tyvek®
Unit 29
Hither Green Estate
Clevedon
North Somerset
BS21 6XU
Tel.: 01275 337660
Fax: 01275 879 773 (sales)
Fax: 01275 879 033 (technical)
E-mail: tyvek.construction@dupont.com

www.tyvek.co.uk

Recommendations as to methods, use of materials and construction details are based on the experience and current knowledge of DuPont and are given in good faith as a general guide to designers, contractors and manufacturers. This information is not intended to substitute for any testings you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a licence to operate under a recommendation to infringe any patent right.

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