

January 2022
1st Edition

DUPONT

Tyvek®

Product Portfolio



DuPont™ Tyvek® breather membranes offer protection during construction and over the life of a building.



FIRE RETARDANT SYSTEM

please see the following two products:

Tyvek® FireCurb® breather membrane - Page 19

Breather Membrane for external build up of the wall

AirGuard® A2 FR fire retardant AVCL - Page 33

Airtight and Vapour Control Layer for internal build up of the wall



Not all membranes are the same

Why choose DuPont™ Tyvek® underlays?



1. Its exceptionally thick functional layer

The functional layer of Tyvek® is around 6 to 8 times thicker than most standard multilayer products that are typically 2-3 times thinner than a human hair.



2. Superior durability with 'Flash Spun-bond Technology'

Tyvek® is composed of millions of microfibres that create a protective 'maze' of material that guarantees a strong, consistent barrier that lasts.



3. Proven watertightness

Recent independent W1 testing of roofs fitted with Tyvek® membranes for over 20 years demonstrate that they outlast many multilayer underlays (many of which fail after less than 10 years).



4. Excellent resistance to damage from UV and heat

Unlike most standard multilayer membranes, the functional layer of Tyvek® is made of 100% high UV and heat stabilised PE. This makes it resistant to UV damage and capable of withstanding temperatures of up to 100 °C



5. Tried, tested and certified

Tyvek® membranes reflect the innovation and expertise of DuPont, a company renowned for pioneering innovation and a commitment to quality and customer service

DU PONT

Tyvek®

DuPont™ Tyvek® Supro / Tyvek® Supro Plus

The market-leading breather membrane

When considering your breather membrane, ask these 3 simple questions:

1- Do I need to vent my roof?

No, Tyvek® Supro / Tyvek® Supro Plus does not need any soffit, tile or ridge ventilation, therefore saving time and money.

2- Do I need a ventilated airspace between the insulation and breather membrane?

No, but a 10mm non-ventilated airspace may be needed to allow the membrane to drape.

3- Does the product have the necessary approvals?

Tyvek® Supro / Tyvek® Supro Plus is fully BBA and NSAI approved, suitable for use in all types of pitched roofs.



- Promotes airtightness and energy efficiency
- Unrestricted, all zones compliance with BS5534 & with BBA & NSAI approval
- Available in 1m, 1.5m and 3m wide rolls for ease of handling
- Tyvek® Supro Plus available with integral lap sealing tape
- A separate sealing tape may be required to achieve BS5534 wind uplift compliance in certain challenging locations
- Minimises the performance gap - performs as designed
- BBA and NSAI certified for non-ventilated pitched roofs
- Recognised as market leading underlay
- Established in the UK for over 25 years
- Full DoP and CE certification

NOT ALL BREATHER MEMBRANES ARE THE SAME!

Choose the market leader Tyvek® Supro / Tyvek® Supro Plus, the reference point in breather membranes.

Try our BRE calibrated wind uplift calculator
<https://www.dupont.co.uk/building/calculator.html>



Membranes, Tapes & Accessories for all types of building...

high occupancy, low occupancy, on-site and off-site construction...

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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



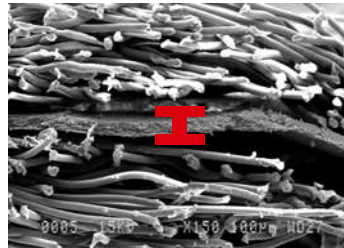
Indoor water damages



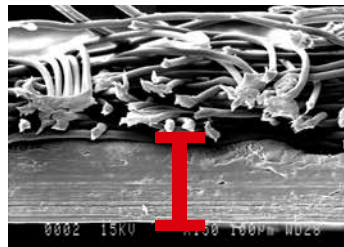
Insulation inefficiency

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

Whether underlays are supplied as single layer or multilayer, 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 multilayer Membrane: 30 microns (internally measured)



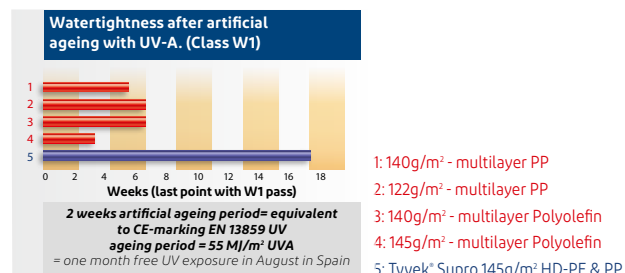
Tyvek* Supro: 175 microns (internally measured)

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.

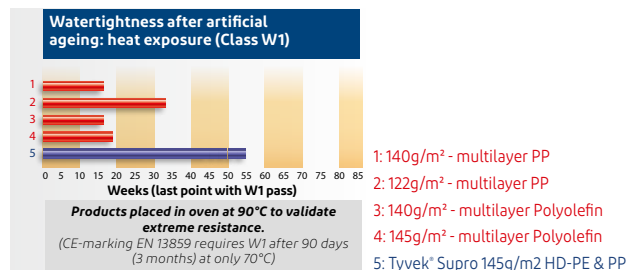
DuPont™ Tyvek® Proven durability

A comprehensive ageing testing programme was commissioned by DuPont to the “SP Technical Research Institute of Sweden (Chemistry and Materials Technology - Polymer technology division)”.

Not all underlays are what they seem to be



The Tyvek® membranes clearly outperformed all tested multilayer products for watertightness after long-term exposure to UV radiation. Tyvek® resisted 16 weeks of accelerated artificial ageing - a conclusive demonstration of durability.



Tyvek® Supro achieved 55 weeks of heat exposure at 90°C, without failing, demonstrating a massive difference in resistance compared to the multilayer alternatives. Tyvek® easily maintains its position as the no.1 membrane in terms of superior durability.

Reality check of 36 roof underlays

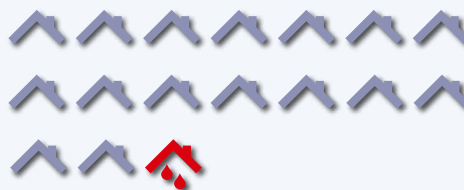
Underlay samples were taken from 36 roofs by an independent noted industry expert and tested for watertightness in an accredited laboratory.

CHEAP PRODUCTS ≤ 10 YEARS



21% WATERTIGHT

TYVEK® ≥ 20 YEARS



94% WATERTIGHT

**DUPONT™ TYVEK® NOW OFFERS
A 15-YEAR WARRANTY
PROTECTING YOUR ROOF AND YOUR REPUTATION**



*This warranty is not a consumer warranty. More information and conditions available on www.construction.tyvek.co.uk/warranty

THINK TWICE, BUILD ONCE, TRUST TYVEK®

www.tyvek.co.uk/rooftest

Product Portfolio

DuPont Performance Building Solutions

DuPont™ Tyvek® roofing underlays

- Tyvek® Supro / Tyvek® Supro Plus
- Tyvek® Metal



Medium to High Occupancy buildings e.g. Health, Education, Residential, Commercial, Leisure...

DuPont™ Tyvek® and DuPont™ AirGuard® accessories

- | | |
|--|------------------------------------|
| • Tyvek® Acrylic Tape
<small>with split-release liner</small> | • Tyvek® FlexWrap NF Tape |
| • Tyvek® Acrylic Tape | • Tyvek® FlexWrap EZ Tape |
| • Tyvek® Metallised Tape | • DuPont™ AirGuard® Tape |
| • Tyvek® Double Sided Tape | • DuPont™ AirGuard® Sealant |
| • Tyvek® Butyl Tape | • Tyvek® Window/Plastering tape |
| • Tyvek® UV Façade Tape | • DuPont™ AirGuard® FR System Tape |
| | • Tyvek® Primer |
| | • DuPont™ Insta Stik™ |
| | • DuPont™ Great Stuff™ |
| | • DuPont™ Froth-Pak™ |

- External application
- Internal application

Products and Technical Support for all Building Types from low occupancy, low level buildings to high occupancy, high rise buildings, on-site and off-site construction

DuPont™ AirGuard® air & vapour control layer (AVCL) and DuPont™ Tyvek® AirGuard® Smart (AVCL) membranes

- DuPont™ AirGuard® Control
- DuPont™ AirGuard® Reflective
- DuPont™ AirGuard® Reflective E
- DuPont™ Tyvek® AirGuard® Smart
- DuPont™ AirGuard® A2 FR fire retardant AVCL

(For use in the internal wall lining)



Low Occupancy buildings e.g. Detached, Semi-detached, Terraced

DuPont™ Tyvek® breather membranes solutions for wall constructions

- Tyvek® FireCurb® breather membrane
- Tyvek® StructureGuard™
- Tyvek® Housewrap
- Tyvek® Reflex
- Tyvek® UV Façade/Tyvek® UV Façade Plus

(For use in the external wall lining)

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Application table DuPont membranes

Applications	Tyvek® Supro / Tyvek® Supro Plus	Tyvek® Metal	Tyvek® Housewrap	Tyvek® Structure-Guard™	Tyvek® FireCurb® breather membrane	Tyvek® Reflex	Tyvek® UV Façade / Tyvek® UV Façade Plus	DuPont™ AirGuard® Control for internal use only (internal lining)	DuPont™ AirGuard® Reflective for internal use only (internal lining)	DuPont™ AirGuard® Reflective E for internal use only (internal lining)	Tyvek® AirGuard® Smart	DuPont™ AirGuard® A2 FR fire retardant
Pitched roofing												
Tiled/Slated roofs												
supported	●							●	●	●	●	●●
unsupported	●							●	●	●	●	●●
Metal roofs												
profiled cladding	●							●	●	●	●	●●
standing seam	●	●							●	●	●	●●
Scottish boarded roofs	●							●	●	●	●	●●
Below solar panels ²	●							●	●	●	●	●●
Walls												
Timber frame	●		●	●	●	●	●	●	●	●	●	●●
Ventilated Façades for highrise buildings					●							●●
Open cladding Façade (low rise)							●	●	●	●	●	●●
Metal frame (low rise)	●		●	●	●	●	●	●	●	●	●	●●
Higher fire class requirements					●							●●

●: Applicable. Before using check with local regulations

●: Highly recommended to improve energy efficiency



DuPont™ Tyvek® Supro / Tyvek® Supro Plus

The market-leading breather membrane

- Available with integrated tape (Tyvek® Supro Plus)
- Excellent water resistance, satisfies W1 standard
- Airtight / Windtight - compliant with BS5534
- Vapour-permeable
- Providing superior air and moisture management for buildings
- For all supported and unsupported pitched roof applications warm, hybrid and cold roofs
- Fits also for Scottish sarking board systems
- Fits also for wall and floor applications
- Long-term performance

Properties

Style name	2507B
Composition	Composite of High Density Polyethylene, Polypropylene
Roll size	1.0 m x 50 m / 1.5 m x 50 m / 3.0 m x 50 m
Roll weight	1.0 m = 7.5 kg / 1.5 m = 12 kg / 3.0 m = 22 kg
Mass per unit area	145 g/m ²
UV exposure	4 months
Product- / Functional layer thickness	450 / 175 µm
Water vapour transmission (Sd)	0.025 m
CE marking	Yes
BBA certificate	N° 08/4548
NSAI certificate	N° 04/0157
Compliant with BS5534	

DuPont™ Tyvek® Metal

A vapour-permeable drainage membrane

- Satisfies the W1 standard
- With integrated tape
- Excellent water resistance, satisfies W1 standard
- Airtight / Windtight
- 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 or SiPs.
- Long-term performance

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	14.6 kg
Mass per unit area	407 g/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
175µm



functional
layer thickness
220µm



Get your building covered. And let it breathe

DuPont™ Tyvek® solutions for Wall Construction

The protection of the insulation and wall structure from external weather conditions and the negative effects of condensation are essential. In wall constructions for instance, 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.

Tyvek® membranes offer significant protection against wind washing and improve energy efficiency and comfort.

FIRE RETARDANT SYSTEM

please see the following two products:

Tyvek® FireCurb® breather membrane - Page 19

Breather Membrane for external build up of the wall

AirGuard® A2 FR fire retardant AVCL - Page 33

Airtight and Vapour Control Layer for internal build up of the wall

DuPont™ Tyvek® FireCurb® breather membrane

The building breather membrane that limits the propagation of flames

- Excellent water resistance, satisfies W1 standard
- All the benefits of standard Tyvek® Housewrap
- Self-extinguishing when ignited
- Limits propagation of flames
- Halogen-free flame retardant coating .i.e. non-toxic
- Prevention of particles PM 2.5 ingress for improved Indoor Air Quality I.A.Q.
- Includes all previous Tyvek® characteristics for energy efficient and condensation free building
- Long-term investment protection
- Greater safety during and after installation
- Suitable for all high rise and high occupancy buildings

Properties

Style name	2066B
Composition	Flash-spun-bond HDPE with flame retardant coating
Dimensions/Weight	1.5 m x 50 m / 5,5 kg
Mass per unit area	66 g/m ²
UV exposure	4 months
Functional layer thickness	175 µm
Reaction to fire* (EN13501-1)	B-s1,d0
Temperature resistance	-40 to +100° C
Water vapour transmission (Sd)	0,04 m
CE marking	Yes
BBA Certificate	N° 90/2548

*if installed freehanging, on mineral wool & cementitious boarding--> B-s1,d0, if installed onto wood --> D-s2,d2)

Application: Tyvek® FireCurb™ Housewrap is typically installed onto the external side of the insulation material or integrated in the wall structure system. It can be used as a solution for ventilated façades.



DuPont™ Tyvek® Housewrap

The ideal vapour-permeable wall membrane

- Excellent water resistance, satisfies W1 standard
- Highly permeable to water vapour (sd-value: 0.01 m)
- Airtight / windtight and highly water resistant (>W1)
- 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
- Established & trusted long-term performance
- Also 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 g/m ²
UV exposure	4 months
Product- / Functional layer thickness	175 µm
Water vapour transmission (Sd)	0.01 m
CE marking	Yes
BBA certificate	N° 90/2548
NSAI certificate	N° 02/0144

DuPont™ Tyvek® StructureGuard™

The professional choice for buildings

- Excellent water resistance, satisfies W1 standard
- Exceptional airtightness
- Windtight and highly water resistant (>W1)
- Lightweight, flexible and easy to install
- Provides superior air and moisture management for commercial and residential buildings
- Long-term performance
- Suitable for low rise walls in timber frame, metal frame, masonry and internal insulation upgrade

Properties

Style name	1560B
Composition	High Density Polyethylene
Roll size	0.75 m x 100 m / 1.4 m x 100 m / 2.7 m x 100 m
Roll weight	0.75 m = 4.5 kg / 1.4 m = 9 kg / 2.7 m = 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
BBA certificate	N° 90/2548

functional layer thickness
175µm



20

functional layer thickness
175µm



21

DuPont™ Tyvek® Reflex

The right reflective breather membrane

- Excellent water resistance, satisfies W1 standard
- Windtight and water resistant but vapour-open
- Low emissivity surface (0,10) results in highly reflective product (90 %) for improved thermal comfort
- Reduces heat loss and improves U-value of wall element
- Improves indoor summer comfort by limiting solar heat gain
- Enhances the airtightness of the construction
- Lightweight, flexible and easy to install
- Long-term performance

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 2.70 m x 100 m / 3.00 m x 100 m
Roll weight	4.2 kg / 13 kg / 25 kg / 29 kg
Mass per unit area	83 g/m ²
UV exposure	4 months
Product thickness = Functional layer thickness	220 µm
Water vapour transmission (Sd)	0.03 m
Emissivity	0.10
CE marking	Yes
BBA Certificate	N° 90/2548

functional layer thickness
220µm



DuPont™ Tyvek® and AirGuard® solutions for SFS external wall construction

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

U-Values of insulated 90mm SFS external wall construction:

External cladding and support system, breather membrane, 50mm continuous insulation, sheathing board, 90mm insulation between SFS, DuPont™ AirGuard® AVCL, 25mm service void, internal plasterboard lining.

	Insulation Thermal Performance Lambda Value	Standard Membrane	Tyvek® Reflex	Tyvek® Reflex + AirGuard® Reflective	Tyvek® Reflex + AirGuard® A2 FR
Mineral wool	0.038	0.34	0.28	0.26	0.26
	0.036	0.33	0.27	0.26	0.26
	0.034	0.32	0.26	0.25	0.25
	0.032	0.30	0.25	0.24	0.24
PIR	0.022	0.23	0.20	0.19	0.19
Phenolic	0.018	0.20	0.17	0.17	0.17

U-Values of insulated 120mm SFS external wall construction:

External cladding and support system, breather membrane, 50mm continuous insulation, sheathing board, 120mm insulation between SFS, DuPont™ AirGuard® AVCL, 25mm service void, internal plasterboard lining.

	Insulation Thermal Performance Lambda Value	Standard Membrane	Tyvek® Reflex	Tyvek® Reflex + AirGuard® Reflective	Tyvek® Reflex + AirGuard® A2 FR
Mineral wool	0.038	0.31	0.26	0.24	0.24
	0.036	0.30	0.25	0.24	0.24
	0.034	0.29	0.24	0.23	0.23
	0.032	0.28	0.23	0.22	0.22
PIR	0.022	0.21	0.18	0.18	0.18
Phenolic	0.018	0.18	0.16	0.16	0.16

■ good ■ average ■ poor

The figures in the above tables show the improvement in terms of thermal performance when standard membranes are replaced by a range of Tyvek® and AirGuard® membranes, including the new DuPont™ AirGuard® A2 FR fire retardant AVCL

DuPont™ Tyvek® UV Façade / Tyvek® UV Façade Plus

Protection for open and ventilated rainscreen cladding

- Excellent water resistance, satisfies W1 standard
- Black, unbranded membrane
- Tested for 5000 hours UV ageing to EN 13859-2, followed by 90 day heat exposure at 70 °C. The membrane retained its full performance.
- Windtight, water resistant and vapour-permeable
- For joint width of up to 3 cm
- Greatly enhances the airtightness of the construction
- Very robust, but flexible & easy to install
- Long-term performance
- Suitable for open or ventilated cladding in timber, metal, stone and other materials
- Reaction to fire class E

Properties

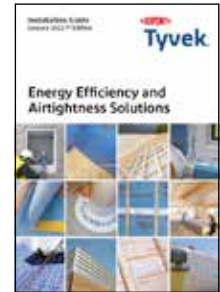
Style name	2524B
Composition	Composite of High Density Polyethylene, and Polypropylene
Roll size	1.5 m x 50 m / 3.0 m x 50 m
Roll weight	15 kg / 30 kg
Mass per unit area	195 g/m ²
UV exposure	see details on technical datasheet
Product- / Functional layer thickness	600 / 220 µm
Water vapour transmission (Sd)	0.035 m
CE marking for Façades with open joints	Yes
BBA Certificate	N° 90/2548

functional layer thickness
220µm

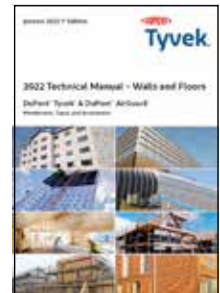


Other useful documents

2022 Installation Guide



2022 Technical Manual Walls and Floors



2022 Technical Manual Roofs



The Installation Guide, Know-how videos, documentation and other information can be easily found on our following web sites:
www.building.dupont.co.uk and
www.energy-efficiency.dupont.com

If you would like to discuss your project with one of our technical experts please contact the DuPont™ Tyvek® Building Knowledge Centre in Bristol, UK Tel: 0117 970 9454 or 9455; e-Mail: Tyvek.construction@dupont.com

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).

The Directive requests Member States to set 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 envelope 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™ Tyvek® and DuPont™ AirGuard® accessories you can choose the right products to complement and enhance DuPont™ Tyvek® building envelope solutions. The adhesive tapes and accessories are specially designed for use with DuPont membranes to help reduce or even avoid uncontrolled air leakage.

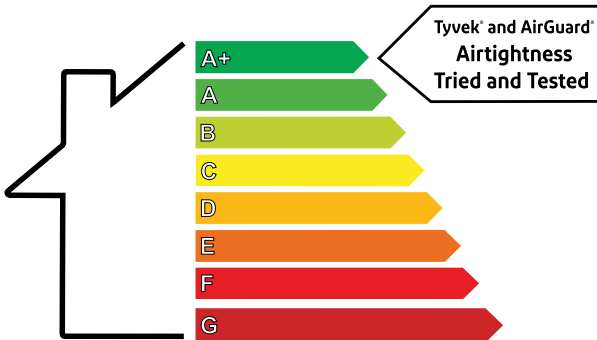


Control the climate in your building.

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™ AirGuard® products can help you achieve these environmental goals.



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 convective vapour transfer
- Reduces risk of condensation into the insulation

Properties

Style name	8327AD
Composition	DuPont™ Typar® spunbond & Ethylen-Butylacrylate Copolymer
Product designation acc. to EN 13984	Type A
Roll size	1.5 m x 50 m / 2.8 m x 50 m
Roll weight	8.5 kg / 19 kg
Mass per unit area	108 g/m ²
Reaction to fire	Class E
Water vapour transmission (Sd)	5 m
CE marking	Yes
BBA certificate	N° 08/4548 and N° 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
- Reduces heat losses by increasing of R-value of the construction
- Superior mechanical strength
- Reaction to Fire: Class E
- Considerably reduces risk of condensation into the insulation
- Reduces convective heat losses

Properties

Style name	5814X
Composition	Composite of Polypropylene, Polyethylene and an aluminium foil
Product designation acc. to EN 13984	Type A
Roll size	1.5 m x 50 m
Roll weight	11,5 kg
Mass per unit area	149 g/m ²
Reaction to fire	Class E
Emissivity**	0.05
Water vapour transmission (Sd)	2000 m
CE marking	Yes
BBA certificate	N° 08/4548 and N° 90/2548

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

DuPont™ AirGuard® Reflective E

AVCL which boosts your thermal efficiency

- Highly vapour resistant
- Airtight and water resistant
- CE-conformity for plastic and rubber vapour control layer (EN 13984)
- Reflects ca. 95% of radiant heat
- Reduces heat losses by increasing of R-value of the construction
- Good mechanical strength
- Reaction to Fire: Class E
- Considerably reduces risk of condensation

Properties

Style name	8314X
Composition	DuPont™ Typar®, PE and Aluminum composite
Roll size	1.5 m x 50 m
Roll weight	9 kg
Mass per unit area	122 g/m ²
Reaction to fire	Class E
Emissivity**	0.05
Water vapour transmission (Sd)	2400 m
CE marking	Yes
BBA certificate	N° 08/4548 and N° 90/2548

** low emissivity value = high reflectivity = superior thermal performance when combined with an air gap.



Tyvek® AirGuard® Smart

AVCL with variable vapour resistance

- Prevents structure damage and loss of insulation efficiency by smartly adapting to various moisture conditions and regulating the humidity in building elements
- Reduced drying out time
- Durability, health and longevity of buildings
- Greater energy efficiency
- Additional drying capacity for unplanned humidity infiltration
- Enhanced interior comfort

Properties

Style name	2009B
Composition	Tyvek® with polymeric coating
Product designation acc. to EN 13984	Type B
Roll size	1.5 m x 50 m
Roll weight	7 kg
Mass per unit area	92 g/m ²
Reaction to fire	Class E*
Water vapour transmission (Sd)	35 m (dry environment) / 0.2 m (humid environment)
Watertightness acc. to EN13859-1 based on 1928 (A)	W1
CE marking	Yes

* Installed on mineral wool.

AirGuard® A2 FR fire retardant AVCL

Airtight Vapour Control Layer for use within the internal lining of roof, ceiling and wall systems.

- Class A2, Fire Retardant
- System Classification: DuPont™ AirGuard® A2 FR AVCL with DuPont™ AirGuard® FR System tape
- Thermal benefit: low emissivity/reflective surface
- Tested and classified for free-span, on mineral wool slab, gypsum plasterboard or fibre cement board
- Suitable for all building types, heights and proximities
- A fire retardant AVCL with European Fire Classification A2.
- A full system test with DuPont™ AirGuard® FR System Tape has been successfully tested according to EN 13501-1

Properties

Style name and D Code	5816X (D Code: - D15561632)
Composition	Laminate of glass fibre-mesh with lacquered Aluminium foil
Product designation acc. to EN 13984	Type B
Roll size	1.2 m x 50 m
Thickness	0.15 mm
Mass per unit area	165 g/m ²
Reaction to fire* (EN13501-1)	A2-s1,d0 (membrane)
Emissivity	0.05
Water vapour transmission (Sd)	4,900 m
Water vapour resistance	24,000 MN.s/g
Water tightness (EN1928)	Pass (Type A)
Tensile force MD/XD	800/800 (N/50 mm)
Nail tear resistance MD/XD	170/150 (N/50 mm)
CE marking	Yes

* The 25 Year Warranty only applies to the AirGuard® A2 FR product's performance. Warranty document available on request.





Products not to scale.

Essential tapes and accessories

DuPont™ Tyvek® and DuPont™ AirGuard® adhesive accessories

Create windtight, airtight and watertight seals with Tyvek® and AirGuard® adhesive 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 range of accessories has been developed to complement and enhance building envelope solutions with Tyvek®.

It helps to:

- reduce or avoid air leakage through the building envelope
- reduce or avoid wind washing
- reduce or avoid dust and pollen penetration
- prevent animals (birds, insects...) from nesting

DuPont™ AirGuard® FR System Tape (style code 1310FR)



A high performance, reflective, single-sided Air & Vapour Control Layer Tape (ACVL), with European fire class A2 in combination with DuPont™ AirGuard® A2 FR AVCL. Dedicated for use with DuPont™ AirGuard® A2 FR AVCL for airtight sealing of laps, joints, functions, windows and doors and sealing around penetrations such as pipework, wiring and structural elements.

Roll size:	75mm x 25m
Rolls per box:	20

Tyvek® Acrylic Tape Tyvek® Acrylic (Corner) Tape with split-release liner (style code 2060B)



- Single-sided DuPont™ Tyvek® (HD-PE) with modified acrylic adhesive with or without a paper split-release liner.
- Suitable for sealing membrane laps, but particularly suitable for making good around penetrations and for damage repair for most Tyvek® underlays and DuPont™ AirGuard® vapour control layers
- With a split liner it is ideal to seal the DuPont™ AirGuard® vapour control layer to windows and doors.

Colour:	white
2060B - Dimensions / rolls per box:	75 mm x 25 m / 8 rolls
2060B with split release liner Dimensions / rolls per box	60 mm x 25 m / 10 rolls

Tyvek® Double-Sided Tape (style code 1310D)



- 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 Façade, but suitable for all Tyvek® membranes and DuPont™ AirGuard® AVCL products.

Colour:	transparent
Roll size:	50 mm x 25 m
Rolls per box:	12 (48 boxes per pallet)

Tyvek® Double-Sided Tape (style code 1310D)



- 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 Façade, but suitable for all Tyvek® membranes and DuPont™ AirGuard® AVCL products.
- The 20 mm version is ideal for temporary fixings of a vapour control layer and limited space detailing.

Colour:	transparent
Roll size:	20 mm x 25 m
Rolls per box:	10 (48 boxes per pallet)

Tyvek® Butyl Tape (style code 1311B)



- Double-sided butyl based sealant, used to form a moisture and airtight seal between a Tyvek® membrane or a 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, e.g. 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) (48 boxes per pallet)

Tyvek® Window Tape (can be plastered or rendered) (style code 1310PT)



A high performance airtight and moisture adaptive carrier tape that can be plastered over. It seals difficult areas like windows, doors and timber to blockwork connections - a product that is suitable for internal & external applications.

Colour:	White
Dimensions / rolls per box	80 mm x 25 m / 6 rolls
Dimensions / rolls per box	150 mm x 25 m / 4 rolls
Release liner split:	80 mm tape 20/60 mm; 150 mm tape 20/70/60 mm

Tyvek® Metallised Tape (style code 2060M)



- Single-sided reflective tape for sealing laps of Tyvek® Reflex, DuPont™ AirGuard® Reflective and DuPont™ AirGuard® A2 FR.
- Ideal for making good around penetrations, pipework, windows and doors.
- Made of metallised Tyvek® and modified acrylic adhesive.
- Provides a durable bond.

Colour:	silver
Roll size:	75 mm x 25 m
Rolls per box:	8 (48 boxes per pallet)

DuPont™ AirGuard® Tape (style code 1310V)



High performance airtight vapour control layer overlap tape, that is very flexible, hand-tearable with a very high tack that sticks on all smooth or rough surfaces such as PE films, spun-bond, wood or PVC.

Colour:	white
Roll size:	60 mm x 25 m
Rolls per box:	10 (48 boxes per pallet)

Tyvek® UV Façade Tape (style code 1312F)



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

Colour:	black
Roll size:	75 mm x 25 m
Rolls per box:	8 (48 boxes per pallet)

Tyvek® Primer (style code 1310P)

Transparent primer that is permanently tacky after curing and with very fast curing time. It is recommended for very porous surfaces to create a good adhesion.



Colour:	White
Capacity	1L
Bottles per box:	6

DuPont™ AirGuard® Sealant (style code 1211S)

An adhesive sealant for permanently elastic, airtight bonding of joints and structural connections as well as connections of vapour control layers to many surfaces. It provides excellent adhesion to most surfaces such as stone, concrete, plaster, plasterboard, glass and wood. For internal building use (not for external use)



Colour:	White
Capacity	310ml
Cartridges per box:	20



Tyvek® FlexWrap NF and EZ (NF style code FLEX NF, EZ style code 2064FW)

- High performance flexible self-adhesive flashing tape.
- Significantly helps in facilitating 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® air and vapour control layers

Colour	white
NF - Dimensions / rolls per box	152 mm x 23 m / 1 roll
NF -Dimensions /rolls per box	228 mm x 23 m/1 roll
EZ - Dimensions / rolls per box	60 mm x 10 m / 3 rolls



ELONGATION (Stretch capability)

- Tyvek® FlexWrap NF - approx.
160% (2.6 times original length)

- Tyvek® FlexWrap EZ - approx.
130% (2.3 times original length)

Spray Polyurethane Accessories- Sealants, Adhesives and Insulation

DuPont™ Great Stuff™ All Direction Straw Foam

All direction Spray Polyurethane Foam

- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 150ml, 300ml, 500ml and 750ml cans
- **Dispenser:** Plastic Straw included
- Expanding foam, can be sprayed with the can in every position, works any way up
- Bonds to Masonry, Metal, Glass, wood and most plastics



DuPont™ Great Stuff™ Pro Fixer Window & Door

Minimal expansion Spray Polyurethane Sealant

- **Description:** Spray Polyurethane foam sealant for Windows and Doors
- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 750ml cans
- **Dispenser:** Spray Gun (not included)
- Bonds to Aluminium, PVC, Masonry, Metal, Glass, wood and most plastics



DuPont™ Great Stuff™ Pro Fire Rated Foam

Regular expansion Spray Polyurethane Sealant Fire Rated

- **Foam colour:** Pink foam for easy identification
- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 750ml cans
- **Dispenser:** Straw (Plastic Straw included) / Spray Gun (not included)
- Spray Polyurethane foam sealant Fire Rated / B1 Fire Rated according to DIN 4102
- 5 hours fire rating obtain with a concrete gap size of 15mm x 220mm according to the BS 476 Pt 20:1987
- Different gap size and material will impact the fire performance
- Bonds to Masonry, Metal, Glass, wood and most plastics, for other surfaces please contact DuPont
- Noise reduction according to EN ISO 717-1:2013 up to 58dB



DuPont™ Great Stuff™ Pro Gaps & Cracks

Spray Polyurethane expanding foam

- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 750ml cans
- **Dispenser:** Spray Gun (not included)
- Spray Polyurethane foam gap filler and cracks
- Bonds to Masonry, Metal, Glass, wood and most plastics, for other surfaces please contact DuPont



DuPont™ Insta Stik™ Flex +

Spray Polyurethane Flexible foam adhesive

- **Description:** Spray Polyurethane Flexible foam adhesive
- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 750ml cans
- **Dispenser:** Straw (Plastic Straw included) / Spray Gun (not included)
- Fast curing
- Noise reduction according to EN ISO 717-1:2013 up to 60dB
- Airtightness according to EN 12114 of 600Pa
- B2 Fire Rated according to DIN 4102, for thickness up to 20mm
- Adheres to Aluminium, PVC, timber, Blockwork, Bricks, Glass, Metal, Roof tiles



DuPont™ Insta Stik™ Multi-Purpose Fast Cure

Spray Polyurethane foam adhesive

- **Description:** Spray Polyurethane foam adhesive
- **Composition:** One component, moisture curing, Polyurethane foam
- **Product size:** 750ml cans
- **Dispenser:** Straw (Plastic Straw included) / Spray Gun (not included)
- Fast curing
- B2 Fire Rated according to DIN 4102, for thickness up to 10mm
- Adhesion to Plasterboard, Insulation boards (PU, PIR, MW, XPS, EPS), Timber, Blockwork, Bricks, Glass, Metal, Roof tiles, for other surfaces please contact DuPont
- Adheres up to 15m² with one can
- Can be used horizontally or vertically



DuPont™ Froth-Pak™

Spray Polyurethane Insulation

- **Description:** Spray Polyurethane foam insulation
- **Composition:** Two component Polyurethane foam (Component A MID, Component B Polyol)
- **Product Variant:** QR (quick rise), SR (slow rise), HD (high density)
- **Product size:** 2 x 5,5 kg (FP180), 2 x 23 kg (FP600)
- **Dispenser:** INSTA-FLO™ Gun (not included in FP600, include in the FP180)
- Supplied in the UK by DuPont BKC, Bristol, UK
- Adheres to timber, Blockwork, Bricks, Glass, Metal, Roof tiles, PVC, Aluminium and most plastics



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BUILDING KNOWLEDGE CENTRE

- Science you can build on -

www.building.dupont.co.uk

www.energy-efficiency.dupont.com

The DuPont™ Tyvek® Building Knowledge Centre is a resource for building envelope installation and design best practices. It's a dedicated source for information about evolving building regulations, sustainable building practices and air, water and thermal management, that can help you:

- Select building envelope materials and techniques
- Meet or exceed building standards
- Enhance energy efficiency
- Protect interior air quality
- Improve building durability
- Increase job site efficiency
- Develop project-specific specifications and plans

We also have a Technical Library (see our web site) which has all our data sheets, installation guides & certificates e.g. BBA, NSAI, CE...

Alternatively, you can contact the technical department by email or phone on:

Technical Tel: 0117 970 9454/9455

Technical E-mail: tyvek.construction@dupont.com

Sales Tel: 0117 970 9456

BIM
BUILDING
INFORMATION
MODELLING



As part of our professional technical service we provide:

- Calculations e.g. Condensation, U-Value...
- Training, Site visits and Hands-on Toolbox Talks
- CPDs
- BIM library
- Desktop Design Reviews
- Plus wide-ranging support from helpful professionals who are experts in the field

<https://www.bimobject.com/en/product?brand=dp-tyvek>

Energy Efficient Buildings

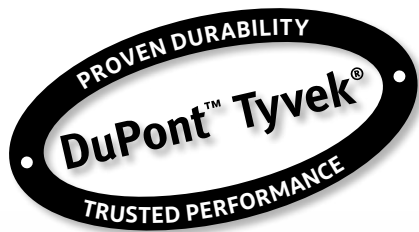
Commitment to sustainable solutions

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.

Made by DuPont - a guarantee of quality

The success of Tyvek® results from a unique manufacturing process using flash-spunbond technology - and over 35 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.



DuPont™ Tyvek® and DuPont™ AirGuard® Membranes, Tapes & Accessories for all types of building...

Commercial,
Residential,
Educational,
Medical,
Leisure,
Volume build to Self Build,
Modular
Passive
plus numerous others

Whether your project is a high occupancy, low occupancy, on-site and/or off-site construction we're here to help with products, technical guidance and friendly, experienced support.

Our contact and web site details are on the next page



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BUILDING KNOWLEDGE CENTRE

- Science you can build on -

www.building.dupont.co.uk

www.energy-efficiency.dupont.com

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North London: 07793 307 358

South London and Southern England: 07764 837 502

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Spray Polyurethane Foams: 07712 787 606

Technical enquiries (BKC): 0117 970 9454/9455

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Product Portfolio Pocket - UK IRE - 08/11/2021