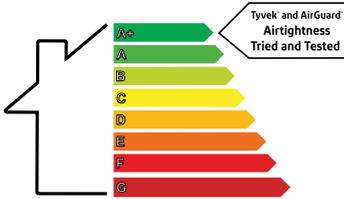


January 2022 1st Edition



Tyvek



DuPont™ Tyvek® and AirGuard® The ultimate energy efficiency and airtightness solution



From Low Occupancy to Multi-Occupancy, Residential to Commercial, Medical, Educational, Leisure, On-site to Off-site Construction ...
Suitable for all types of buildings

What do you want your project to achieve?

		Using Tyvek and AirGuard
Environmental Focus	Reduce waste, increase performance, extend durability	✓
Energy Efficiency	Save resources, energy and costs	✓
Air Quality	Reduce ingress of pollution into internal space	✓
Comfort	Increase internal building occupancy comfort	✓
Airtightness	Stop or reduce unintentional air leakage	✓
Durability	Extend life cycle performance of building	✓
Weather Proofing	Prevent water ingress, weather damage and provide wind tightness	✓

◀ DUPONT ▶

Tyvek®

◀ DUPONT ▶

AirGuard®

◀ DUPONT ▶

Insta Stik™

◀ DUPONT ▶

Froth-Pak™

◀ DUPONT ▶

Great Stuff™



Products not to scale.

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 requirements and regulations on the energy performance of buildings continue to increase. Because of air leakage from the building envelope, heat losses through convection can occur. Choosing the right air and vapour control layer (AVCL), breather membrane, tapes and accessories will help create a thermally efficient, condensation-free structure.

Installing one of the DuPont™ AirGuard® membranes 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 and accessories are specially designed for use with DuPont membranes to help reduce or even avoid uncontrolled air leakage.



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

- 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)

Simple and (energy) efficient : the Tyvek® and AirGuard® range for internal airtightness

AirGuard® Air and Vapour Control layers

AirGuard® Control

Strong Air and vapour control layer for roofs, walls and ceilings



- Limited vapour transmission
- Airtight
- Robust and excellent mechanical strength
- Lightweight and easy to install

Dimensions: 1.5m x 50m; 2.8m x 50m



AirGuard® Reflective

Extremely strong and robust air and vapour control layer (AVCL) boosting thermal efficiency of the building



- Airtight and highly vapour and water resistant
- Reflects ca. 95% of radiant heat
- Reduces heat losses by increasing R-value of the construction
- Superior mechanical strength
- Considerably reduces risk of condensation

Dimensions: 1.5m x 50m



AirGuard® A2 FR fire retardant AVCL

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

Enhancing the building fabric in terms of airtightness, energy efficiency and moisture management, improving indoor air quality and providing exceptional fire safety to the building and its occupants.

- Class A2, Fire Retardant
- System Classification: DuPont™ AirGuard® A2 FR AVCL with Tyvek® 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 Tyvek® AirGuard® FR System tape has been successfully tested according to EN 13501-1



**Reaction to Fire:
Class A2-s1,d0**

Dimensions: 1.2m x 50m



*For details on our warranty please visit our www.building.dupont.co.uk website



Tyvek® AirGuard® Smart

Air and vapour control layer (AVCL) with extreme variable vapour resistance. Prevents structural damage and loss of insulation efficiency by smartly adapting to various moisture conditions and regulating the humidity in building elements



- Reduced drying out time
- For durable and healthy buildings
- Greater energy efficiency
- Additional drying capacity for unplanned humidity infiltration
- Enhanced interior comfort
- Trusted Tyvek® brand: robust and durable

Dimensions: 1.5m x 50m

Essential tapes and accessories

Tyvek® and AirGuard® adhesive accessories

DuPont™ AirGuard® FR System Tape (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.



Dimensions: 75mm x 25m

Rolls per box: 20

Tyvek® Acrylic Tape (2060B)

Single-sided DuPont™ Tyvek® with 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 AirGuard® vapour control layers
- With a split liner it is ideal to seal the AirGuard® vapour control layer to windows and doors

Dimensions 2060B: 60mm x 25m (tape with split release liner)

Dimensions 2060B: 75mm x 25m (tape without split release liner)

Rolls per box: 60mm: 10/75mm: 8

Tyvek® Double-sided Tape (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 AirGuard® air and vapour control layers (AVCL)

Dimensions: 50mm x 25m

Rolls per box: 12

Tyvek® Double-sided Tape (1310D)

Double-sided acrylic tape ideal for temporary fixings of a vapour control layer and limited space detailing.



Dimensions: 20mm x 25m
Rolls per box: 10

Tyvek® Butyl Tape (1311B)

Double-sided butyl based sealant, used to form a moisture and airtight seal between a Tyvek® membrane or an AirGuard® air and vapour control layer 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

Dimensions: 20mm x 30m; 50mm x 30m
Rolls per box: 8 (20 mm x 30 m)
4 (50 mm x 30 m)

Tyvek® Window Tape (1310PT) - it can be plastered or rendered if required

A high performance airtight and moisture adaptive carrier tape that can be plastered over. It seals difficult areas like windows, doors and timber to block connections – 1 product that fits application outside and inside.



Dimensions: 80mm x 25m / 150mm x 25m
Rolls per box: 6 (80 mm x 25 m)
4 (150 mm x 25 m)



Tyvek® FlexWrap EZ and NF (2064FW and FLEXNF)



- 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 AirGuard® air and vapour control layers

Dimensions: 60mm x 10m (EZ)
152mm x 23m (NF)
228mm x 23m (NF)
Rolls per box: 3 (60mm) EZ
1 (152mm) NF
1 (228mm) NF

ELONGATION (Stretch capability)

- Tyvek® FlexWrap NF - approx. 160% (2.6 times original length)
- Tyvek® FlexWrap EZ - approx. 130% (2.3 times original length)



AirGuard® Tape (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.



Dimensions: 60mm x 25m
Rolls per box: 10

Tyvek® Primer (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.



Capacity: 1L
Bottles per box: 6

Tyvek® Metallised Tape (2060M)

Single-sided reflective tape for sealing laps of Tyvek® Reflex, AirGuard® Reflective, AirGuard® Reflective E and AirGuard® A2 FR fire retardant AVCL



- Ideal for making good around penetrations, pipework, windows and doors
- Made of metallised Tyvek® and modified acrylic adhesive
- Provides a durable bond

Dimensions: 75mm x 25m
Rolls per box: 8

AirGuard® Sealant (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 and wood.



Capacity: 310ml
Cartridges per box: 20

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 FP180 and FP600)
- Supplied in the UK by DuPont BKC, Bristol, UK
- Adheres to timber, Blockwork, Bricks, Glass, Metal, Roof tiles, PVC, Aluminium and most plastics

* For information on who supplies our above listed spray products in the UK and Ireland please contact DuPont PBS in Bristol, UK (contact details at back of brochure)



- DuPont® Froth-Pak®** – For insulation and to avoid thermal bridging
- DuPont® Insta-Stik® MP** – Multipurpose adhesive, including windows
- DuPont® Great Stuff® FR** – Fire rated foam, for gap filler and penetration seal
- DuPont® Great Stuff®** – The GSP range provides multiple solutions for different applications

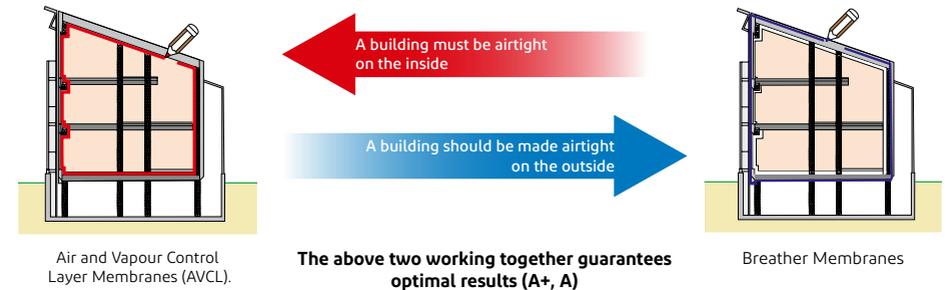
Spray Foams			
DuPont® Insta-Stik® Flex+	DuPont® Insta-Stik® MP	DuPont® Great Stuff® range	DuPont® Froth-Pak®
750ml can	750ml can	See page 14 and 15	See page 17

Applications

	Inside	Outside *				
	X	X	X	X		
	X	X	X	X		
Material compatibility and recommended use	Masonry / concrete / render (smooth)	●	●	●	●	
	Brick / block / concrete /render (rough)	●	●	●	●	
	Plasterboard	●	●	●	●	
	Eaves Carrier					
	Window / door frames (PVC, Wood, Aluminium)	●	●	●	●	
	OSB & Wood fibre	●	●	●	●	
	Timber (rough, sawn)	●	●	●	●	
	Timber (planed, grinded)	●	●	●	●	
	Metal (aluminium, steel, copper, ...)	●	●	●	●	
	Construction membranes (PE, PVC, PP, PES, Alu, ...)	●	●	●	●	
Penetrations & other applications	Pipe penetrations (plastic & metal)	●	●	●	●	
	Wiring / cable penetrations	●	●	●	●	
	Around electrical sockets	●	●	●	●	
	Windows & Doors to timber frame (inside)	●	●	●	●	
	Windows & Doors to timber frame (outside) *	●	●	●	●	
	Windows & Doors to bricks & blocks (inside)	●	●	●	●	
	Windows & Doors to bricks & blocks (outside) *	●	●	●	●	
	Technical insulation, spray foam insulation				●	
Big gap filler				●		

* All the foams are not UV resistant, and should be protected from UV radiation on outside applications

■ recommended to use primer - ● recommended and designed for - ● works out properly but not designed for



Using Tyvek® and AirGuard®

Always look for approvals from

Certified bodies

Check that the data relates to

Aged performance

Confirm the products are truly

Fit for purpose

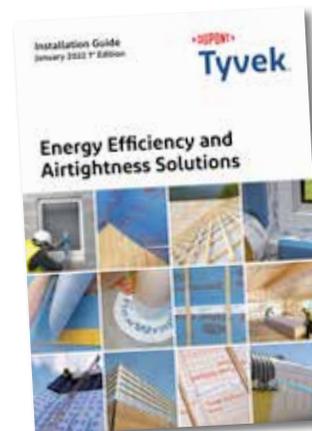


Installation Guide

Plus helpful demonstration videos and product information

Dear Professional Installers, Architects, Designers, Self Builders and many others,

To find additional useful information on our membranes, tapes and accessories, for all building types, please see our latest Installation Guide



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: +44 (0) 117 452 9052/9053;
e-Mail: Tyvek.construction@dupont.com



DUPONT
Tyvek
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 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:

Main office: +44 (0) 117 452 9050
 Technical: +44 (0) 117 452 9052/9053
 Technical enquiries: tyvek.construction@dupont.com

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 many more helpful and friendly types of support



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

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

...

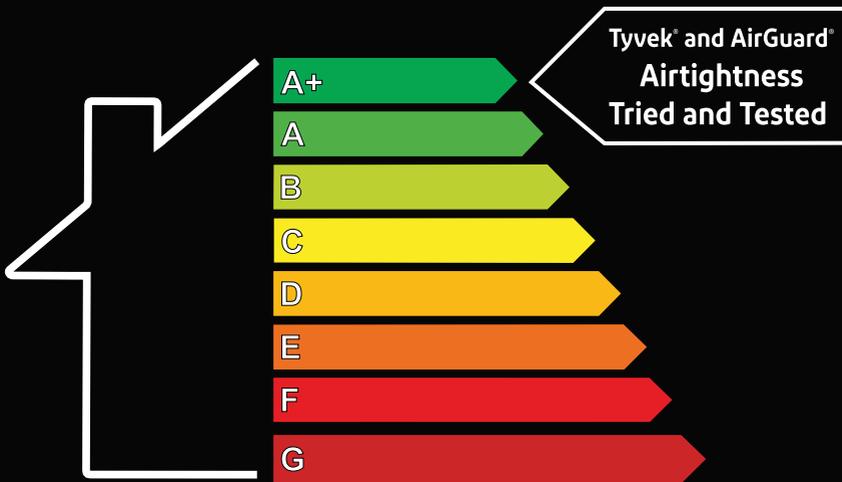
Whether your project is a high occupancy, low occupancy, on-site and/or off-site construction we're here to help with products, technical guidance and friendly, experienced support.

Our contact and web site details are on the next page

Tyvek® and AirGuard®

DuPont™ Tyvek® is at the forefront of building science, meeting the building codes of today and the future with construction materials you can trust. For the ultimate energy efficiency solution and the inner strength that buildings need, DuPont™ Tyvek® introduces AirGuard®, for superior performance and reliability in internal airtightness. With today's focus on the reduction of emissions and improved energy efficiency, you can count on a brand that has been at the heart of building solutions for decades and which has a global building knowledge network - Tyvek® and AirGuard® are your guarantee of unbeatable energy efficiency.

With Tyvek® and AirGuard®, Trust is Built In.



For additional information please contact:

DuPont™ Tyvek® Building Knowledge Centre

HERE,

470 Bath Road,

Arnos Vale,

Bristol

BS4 3AP

Main office: +44 (0) 117 452 9050

Technical: +44 (0) 117 452 9052/9053

Technical enquiries: tyvek.construction@dupont.com

www.building.dupont.co.uk

www.energy-efficiency.dupont.com

www.construction.tyvek.co.uk

◀ DUPONT ▶

Tyvek®