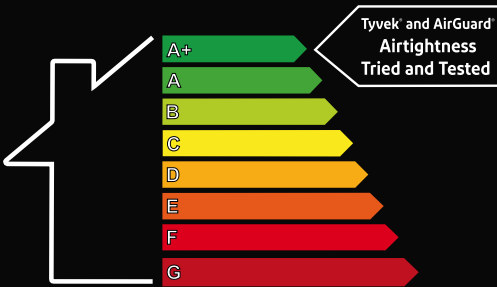


Tyvek® and AirGuard® Inner Strength

The ultimate energy efficiency and airtightness solution



DU PONT
Tyvek®

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, costs
Air Quality	Improve air and sound quality, reduce indoor pollution
Comfort	Increase internal building comfort
Airtightness	Reduce waste, stop or reduce air leakage
Durability	Extend Durability





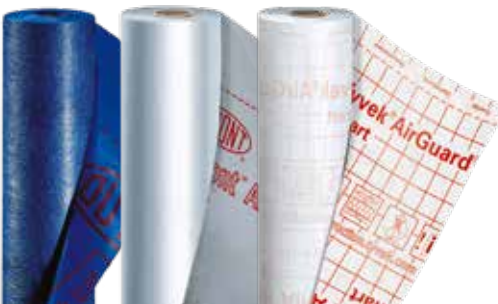
Achieve optimal airtightness and long-term performance

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

- External application
- Internal application

DuPont™ Tyvek® roofing underlays

- Tyvek® Supro / Supro Plus
- Tyvek® Metal



Tyvek® and AirGuard® Accessories

- Tyvek® Acrylic Tape
with split-release liner

- Tyvek® Acrylic Tape

- Tyvek® Metallised Tape

- Tyvek® Double Sided Tape

- Tyvek® Butyl Tape

- Tyvek® UV Façade Tape

NEW

- Tyvek® FlexWrap NF

- Tyvek® FlexWrap EZ

- Tyvek® Plastering Tape

- AirGuard® Tape

- AirGuard® Sealant

- Tyvek® Primer

NEW

NEW

NEW

NEW

NEW



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

- DuPont® AirGuard® Control
- DuPont™ AirGuard® Reflective
- DuPont™ AirGuard® Reflective E
- Tyvek® AirGuard® Smart

NEW

**DuPont® Tyvek® solutions for Timber
Frame and wall construction**

- Tyvek® FireCurb® Housewrap
- Tyvek® StructureGuard™
- Tyvek® Housewrap
- Tyvek® Reflex
- Tyvek® e-Guard W1
- Tyvek® UV Façade/UV Façade Plus

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 vapor 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

**Tyvek® AirGuard®
Smart**

**Tyvek® AirGuard®
Smart**

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

AirGuard® Reflective E

Air and vapour control layer (AVCL) boosting thermal efficiency of the building



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

Dimensions: 1.5m x 50m

Essential tapes and accessories

Tyvek® and AirGuard® adhesive accessories

Tyvek® Acrylic Tape (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 AirGuard® vapour control layers
- With a split liner it is ideal to seal the AirGuard® vapour control layer to windows and doors

Dimensions 2060B: 75mm x 25m

60mm x 25m with split liner

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

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) - **NEW**

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 (1310PT)

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, eg. 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® Plastering Tape (1310PT) - **NEW**

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 et 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)**

**Rolls per box: 3 (60mm)
1 (152mm)**

AirGuard® Tape (1310V) - **NEW**

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® Metallised Tape (2060M)

Single-sided reflective tape for sealing laps of Tyvek® Reflex, AirGuard® Reflective and AirGuard® Reflective E.



- 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

Tyvek® Primer (1310P) - **NEW**



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

AirGuard® Sealant (1211S) - **NEW**



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

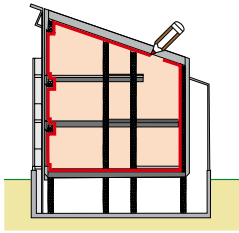
Cartridges per box: 20

Applications

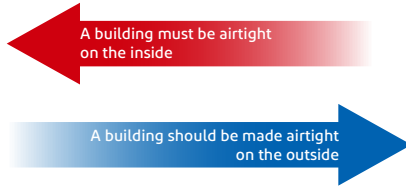
		Acrylic tapes			
		Tyvek [®] Acrylic Tape	Tyvek [®] Acrylic Tape	Tyvek [®] UV Facade Tape	Tyvek [®] Metallised Tape
		2060B (50/75mm)	2060B (60mm with SL)	1312F (75mm)	2060M (75 mm)
Inside		X	X		X
Outside		X	X	X	X
Overlaps and overall repair	Tyvek [®] underlays for roof (EN13859-1)	●	●	●	●
	Tyvek [®] underlays for walls (EN13859-2)	●	●	●	●
	Tyvek [®] UV Facade (EN13859-2 with open joints)			●	
	AirGuard [®] VCL all applications (EN13984)	●	●	●	●
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, ...)	●	●	●	●
	Vapour control layers (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) *	●	●	●	●
	Plasterable or under rendering *				
	Temporarily fixing Air and vapour control layers (VCL) to rafters				

* Necessity for primer application (Yes/No): see under material compatibility and recommended use

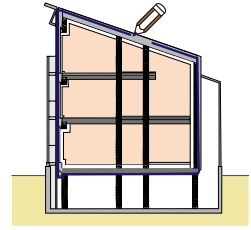
■ recommended to use primer - ● recommended and designed for - ● works out properly but not designed for



Air and Vapour Control Layer Membranes (AVCL).



The above two working together guarantees optimal results (A+, A)



Breather Membranes

Using Tyvek® and AirGuard®

Always look for approvals from

Certified bodies

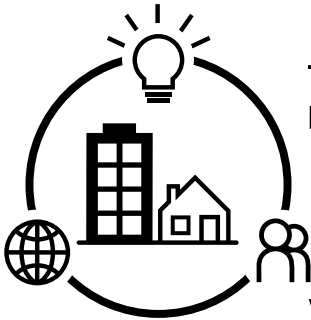
Check that the data relates to

Aged performance

Confirm the products are truly

Fit for purpose





THE DUPONT™ TYVEK® BUILDING KNOWLEDGE CENTRE

www.construction.tyvek.co.uk

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:

Tel: 08444 068 722

Option 1 for Technical Office

Technical E-mail: 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>

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®
BBSP1
Bristol & Bath Science Park
Dirac Crescent
Emersons Green
Bristol
BS16 7FR
Phone: 08444 068 722
Technical enquiries: Tyvek.construction@dupont.com

www.construction.tyvek.co.uk
energy-efficiency.dupont.com

◀ D U P O N T ▶
Tyvek®