



# Class A2 Fire Retardant AVCL Membrane DuPont™ AirGuard® A2 FR

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



Reaction to Fire:  
Class A2-s1,d0



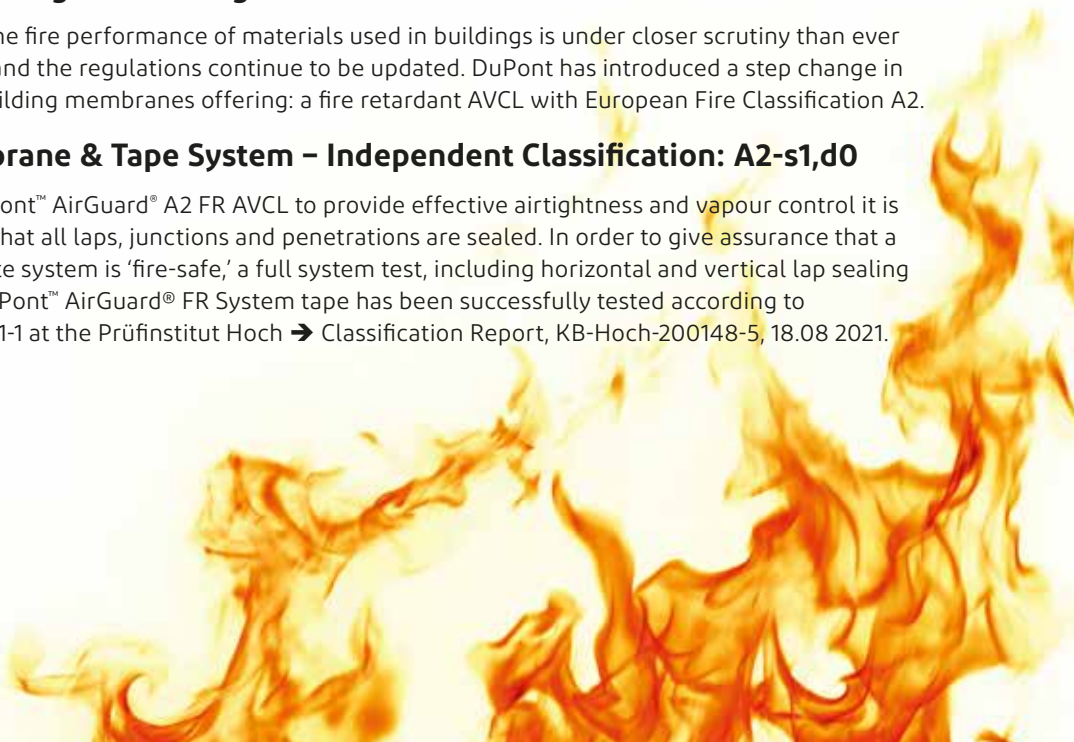
DuPont™ AirGuard® A2 FR AVCL: a Fire Retardant Airtight Vapour Control Layer for use within the internal lining of roof, ceiling and wall systems. Enhancing the building fabric in terms of airtightness, energy efficiency and moisture management, improving indoor air quality and providing exceptional fire safety to the building and its occupants.

## Surpassing the Fire Regulations

Today the fire performance of materials used in buildings is under closer scrutiny than ever before and the regulations continue to be updated. DuPont has introduced a step change in their building membranes offering: a fire retardant AVCL with European Fire Classification A2.

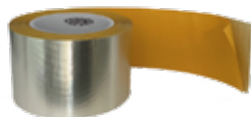
## Membrane & Tape System – Independent Classification: A2-s1,d0

For DuPont™ AirGuard® A2 FR AVCL to provide effective airtightness and vapour control it is crucial that all laps, junctions and penetrations are sealed. In order to give assurance that a complete system is 'fire-safe,' a full system test, including horizontal and vertical lap sealing with DuPont™ AirGuard® FR System tape has been successfully tested according to EN 13501-1 at the Prüfinstitut Hoch → Classification Report, KB-Hoch-200148-5, 18.08 2021.



# DuPont™ AirGuard® A2 FR AVCL & tape system advantages at a glance

- Fire-retardant
- Reaction to fire: A2-s1, d0 to EN 13501-1: 2007+A1:2009
- AirGuard® A2 FR AVCL and DuPont™ AirGuard® FR System tape




DuPont™ AirGuard® FR  
System Tape 1310FR

- Tested and classified for free-span, on mineral wool slab, gypsum plasterboard or fibre cement board
- Fire Classification surpasses all national building regulations and standards for construction materials used in walls in the UK and Ireland

- Suitable for all building types, heights and proximities
- High vapour resistance, limiting interstitial condensation
- Suitable for high humidity buildings, such as swimming pool halls etc
- Thermal benefit; low emissivity/reflective surface
- 100% Airtightness
- Extremely robust
- Exceptional tear and tensile strength characteristics
- 25 year warranty for the AirGuard® A2 FR AVCL membrane
- Not hand tearable, use a safe cutting tool

## DuPont™ AirGuard® A2 FR AVCL

Properties 	Nominal
Style name and D code	5816X (D Code:- D15561632)
Roll size/Weight	1.2m x 50m / 10.4kg per roll
Thickness	0.15 mm
Mass per unit area	165 g/m²
Composition	Laminate of glass fibre-mesh with lacquered Aluminium foil
Reaction to fire* (EN13501-1)	A2-s1,d0 (membrane tested by itself)
Reaction to fire* (EN13501-1)	A2-s1,d0 (membrane & AirGuard® FR System tape)
Water vapour transmission (Sd)	4.900 m
Water vapour resistance	24.000 MN.s/g
Emissivity	0.05
Thermal resistance (with airspace)	Walls: 0.66 m²K/W / Ceilings: 0.45 m²K/W
Water tightness (EN1928)	Pass (Type A)
Tensile force MD/XD	800/800 (N/500)
Nail tear resistance MD/XD	170/150 (N/50 mm)

Tested freehanging & affixed on underlaying materials with EN13501-1 fire class A1 or A2-s1, d0.

**IMPORTANT: To compliment this product, a flame retardant breather membrane should be used on the external side of the wall system. For this purpose, we would recommend you use DuPont™ Tyvek® FireCurb®. Please see [www.flameretardant.tyvek.com](http://www.flameretardant.tyvek.com)**

DuPont™ Tyvek® Building Knowledge Centre  
Bristol & Bath Science Park  
Dirac Crescent  
Emersons Green  
Bristol, UK  
BS16 7FR  
Technical: 0117 970 9454/9455  
Sales: 0117 970 9456  
Technical enquiries: [tyvek.construction@dupont.com](mailto:tyvek.construction@dupont.com)

**[www.building.dupont.co.uk](http://www.building.dupont.co.uk)**  
**[www.energy-efficiency.dupont.com](http://www.energy-efficiency.dupont.com)**



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

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, ® or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2021 DuPont 26th October 2021.NW/WJM