

# Tape Accessories

TO COMPLEMENT PROCTOR PRODUCTS

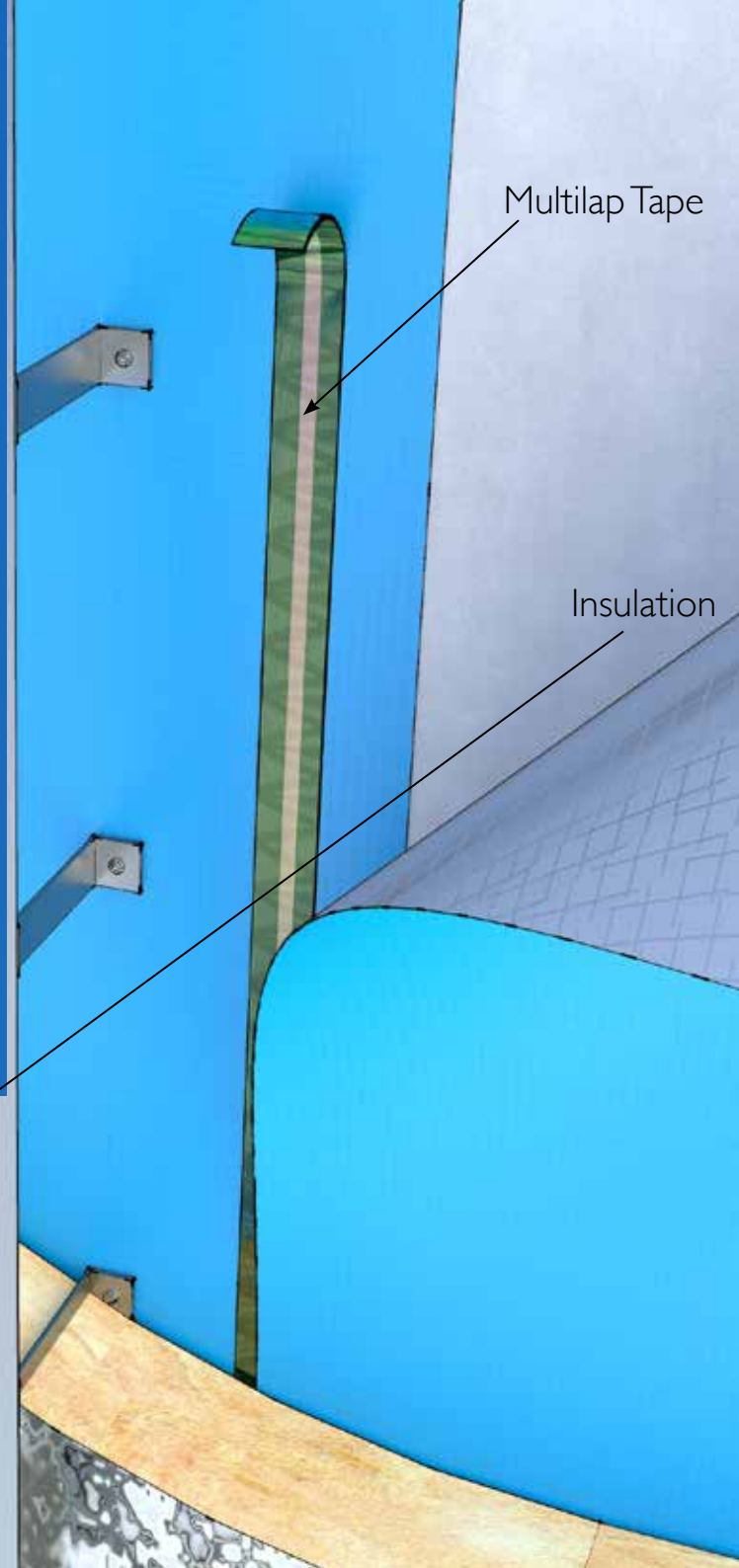


# INTRODUCTION

To assist contractors in meeting the strict guidance given in building regulation documents, the A Proctor Group supplies a wide range of tape accessories for their membranes to ensure the installation process is both simple and robust.

Specially designed for the requirements of the building and construction industry, our tapes guarantee extra performance, resistance and reliability.

- Vapour permeable or vapour tight
- External & internal use
- Suitable for A. Proctor Group membranes
- Single or double sided available



Multilap Tape

Insulation

## WRAPTITE® TAPE

A useful way of stopping unnecessary air leakage around openings and overlaps is to use Wraptite Tape, an airtight, tear resistant tape with high vapour permeability for internal and external applications. Wraptite Tape's flexibility facilitates ease of application and detailing, while its' resilient composition resists punctures and tears during construction. It can be left exposed for up to 120 days during construction and has a wide operating temperature range (-40°C to +100°C). Wraptite Tape is also available with a split release liner for ease of installation.

It fully bonds to all standard substrates, with no primer required, suppressing air leakage around joints, openings and penetrations. It is also suitable for permanent airtight sealing of membrane overlaps and for taping insulation joints. Wraptite Tape's high vapour permeability allows damp sheathing to dry quickly and moisture vapour to escape. This ensures good indoor air quality and reduces the likelihood of mould, mildew, condensation, timber distortion and metal corrosion. Wraptite Tape contains no VOC's.

### Physical Properties

Property	Test Method	Mean Results
Roll sizes	-	75mm x 50m 100mm x 50m 150mm x 50m
Nominal Thickness	Calibrated Deadweight Micrometer	0.65mm
Basis Weight	Electronic Weigh Scale	292 g/m <sup>2</sup>
Application Temperature	-	Air & surface: minimum -10°C maximum 60°C
Service Temperature	-	-40°C to +100°C
Water Penetration	EN 1928 : 2000 Method A	Class W1 (before ageing) Class W1 (after ageing)
Air Permeance	EN 12114	0.01 m <sup>3</sup> /m <sup>2</sup> .h.50 Pa
Water Vapour Resistance Sd	EN 12572	0.039m
Water Vapour Transmission	BS 3177:1959	893 g/m <sup>2</sup> .24hr
Peel Adhesion	EN 1939	5.01 N/10mm
Tensile Strength	EN 12311-1	Mean MD 417N Mean XD 252N
Tear Resistance	EN 12310-1	Mean MD 412N Mean XD 286N
Reaction to Fire	EN 11925-2 BS EN 13501-1	Class B, s1, d0*

### Key Benefits

- Vapour permeable tape used to protect exposed joints in insulation
- Easy to use when detailing joints
- Ultimate airtightness accessory
- Can seal joints in mechanically fastened air barrier
- Airtight



\*tested over 12mm Calcium Silicate Board as per BS EN 13238:2010

## FLEXTITE® TAPE

Flexitime Tape is a single sided waterproof pressure sensitive adhesive to seal and join membranes. Use for internal and external applications to seal membrane penetrations, brackets etc.

### Physical Properties

Property	Test Method	Mean Results
Roll size	-	75mm x 50m
Thickness	-	0.41mm (Carrier 0.3mm + Liner 0.11mm)
Colour	-	Black
Peel strength	DIN EN 1943, at +23 °C +/- 2°C (steel)	33 N/25 mm
Composition	LDPE film with modified dispersion acrylic adhesive on a silicone paper release liner.	
Application temperature	-10°C to +35°C	
Service temperature	-40°C to +85°C	

### Key Benefits

- Scrim-reinforced elastical film tape, extensible in cross direction with a high adhesive strength even at low temperature
- High outdoor resistance, UV-stability with up to 12 months exposure
- High water resistance and waterproof in the application
- High adhesion even to rough surfaces due to high coating weight of the adhesive
- Flexible for sealing round penetrations

### Application

- Joining facade membranes
- Waterproof joining of roofing membranes
- Sealing penetrations in external and internal applications

### Storage

Adhesive tapes should be stored at room temperature and normal humidity (50-70 %).



## PROCHECK® MULTILAP TAPE

Procheck Multilap Tape is a solvent free vapour barrier tape with a high adhesive coating weight and integrated finger lift. It can be utilised as a single sided, double sided or flexible tape for a wide variety of sealing applications. It is used for the vapour and air-tight bonding of overlaps and penetrations in the construction and it excels due to its multi purpose composition. The tape can be applied at temperatures from -10°C upwards and possesses a strong initial adhesive strength on a wide range of substrates. A pre-fixing of the vapour barrier layers by means of double-sided bonding is also possible.

### Physical Properties

Property	Test Method	Mean Results
Roll size	-	60mm x 25m
Thickness	-	0.34mm (Carrier 0.29mm + Liner 0.05mm)
Colour	-	Green
Shear strength	DIN EN 1943, at +23 °C +/- 2°C (steel)	6 N/625mm <sup>2</sup>
Peel strength	DIN EN 1939, at +23 °C +/- 2°C (steel)	27 N/25 mm
Composition	Filament yarn - polyethylene film laminate with a dispersion adhesive on a polyester-film liner	
Application temperature	5°C although can be used down to -10°C	
Sevice temperature	-40°C to +80°C	

### Key Benefits

- Scrim-reinforced film tape with a high adhesive strength even at low temperatures
- Application temperature down to -10 °C
- Due to its high coating weight, Procheck Multilap Tape is also suitable for the bonding on rough surfaces
- High ageing stability, up to 3 months under outdoor exposure
- Not susceptible to water
- Easy to tear during application due to notched edge profile
- Liner stabilises the filmic tape construction and can be easily removed if a flexible or double sided solution is useful
- Reduces waste and time in application

### Application

- “Two-in-one” solution for flexible and overlapping joints to DIN 4108-7 in indoor application
- Sealing of intrusions in ceilings and walls of pipes, vents, joists, etc.
- Suitable for bonding on all rough surfaces like concrete, wood etc.
- Use to seal Procheck Adapt or any of the VCL range.



## REFLECTAFOIL® TAPE

Reflectafoil Tape is a flame retardant aluminium foil tape coated with a cold weather water based acrylic adhesive on one side, and lined with a release paper to protect the adhesive face. This product has been tested to BS476 part 6 & 7 standards and meets Class 0.

### Physical Properties

Roll size	100mm x 45m*
Thickness (inc. release liner)	70µm (0.07mm)
Tensile Strength	45 N/25mm
Elongation	3%
Adhesion to Steel	12 N/25mm
Rolling Ball Tack Test	5cm
Application temperature	+10°C to +40°C the surface must be free from ice or moisture
Service temperature	-30°C to +120°C

\* Other sizes available on request.

### Storage

Normal room temperature.

### Key Benefits

- High performance 30 micron aluminium foil tape
- Airtight
- Vapour tight
- Ideal for sealing joints in vapour control layers
- Foil conforms to irregular surfaces
- Certified to BS476 parts 6 & 7 - Class 0



## FAÇADESHIELD® UV TAPE

Façadeshield UV Tape is permanently UV-Resistant, tear-resistant with adhesive generously applied and is suitable for a variety of bonding applications. Primarily used in conjunction with our Façadeshield UV. Highly suited for discreet jointing behind open facades.

### Physical Properties

Property	Mean Results
Roll size	60mm* x 25m
Thickness	Approx. 0.5mm
Application temperature	From -5°C to +40°C
Service Temperature	-40°C to +100°C
Resistance to ageing	30 years
Colour	Black
Storage	2 years; cool and dry
Composition	Tear-resistant system adhesive tape with acrylate adhesive. The base material has a permanent UV-resistant coating

\*53mm and 100mm may be available dependent on quantities

### Application

Apply off the roll or cut to desired length. Press firmly into position.

### Preparation

For optimum adhesion, all surfaces should be properly prepared and must be free from dust and grease and substrates must be dry. The greater the pressure applied, the better the performance of the adhesive tape.

### Note

Façadeshield UV Tape functions as a seal and not as a mechanical fixing. The pure acrylate adhesive used does not contain resins or other additives that could cause the adhesive film to become brittle and therefore this product is extremely resistant to ageing.

### Key Benefits

- Black UV-Resistant adhesive tape for seals, indoors & outdoors
- 30 years resistance to ageing
- A matt finish to blend in with Façadeshield UV



## PROBOND TAPE

ProbondTape is an extruded butyl tape for use in sealing overlaps in vapour control layers.

ProbondTape has good adhesion to a wide range of substrates. The softer composition makes ProbondTape highly conformable and has good UV resistance. It is easy to use with little waste and no mess and remains flexible throughout its service life.

### Physical Properties

Property	Test Method	Mean Results
Roll size	-	15mm x 22.5m
Thickness	-	2mm
Colour	-	Grey
Dynamic Tensile Adhesion	H5	18N/cm <sup>2</sup>
Dynamic Shear Adhesion	H15	14N/cm <sup>2</sup>
90° Peel Adhesion	H48	7N/cm
180° Peel Adhesion	H41	11N/cm
Specific Gravity	H6	1.65g/cm <sup>3</sup>
Moisture Vapour Transmission Rate	ISO9932 / BS ISO 15106	0.24 g/m <sup>2</sup> /24hr/mm
Service Temperature Range	-	-40 to +90°C
Application temperature		5°C to +40°C

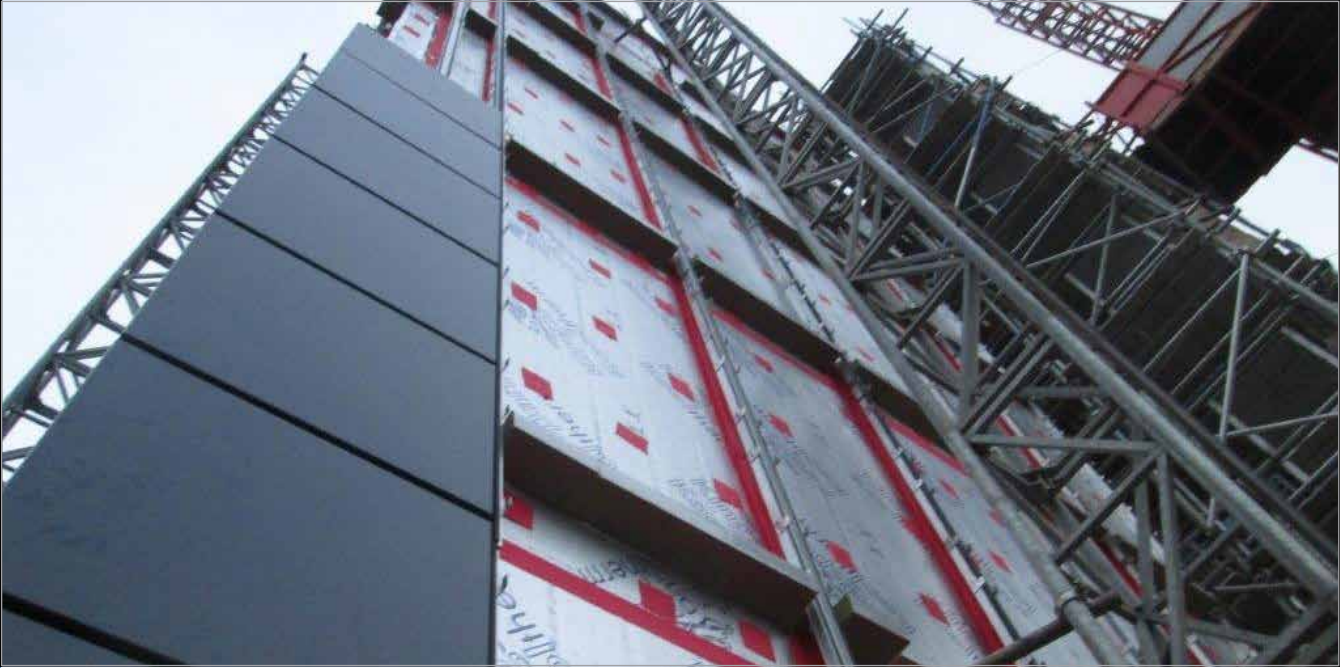
### Key Benefits

- Good adhesion to a wide range of substrates
- Good UV resistance
- Easy and accurate to use with little waste and no mess
- The softer composition makes this product highly conformable
- High tack
- Remains flexible throughout its service life



# Ready Reckoner

Tape	Standard Roll Size	Single or Double Sided	Application	Internal / External	Key Properties	Suitable to use with
Wraptite Tape	75mm, 100mm or 150mm x 50m	Single	Detailing with full coverage Wraptite application, ie penetrations, joints in vapour permeable membranes and underlays, sealing insulation boards, draughtproofing	Internal or External	Vapour permeable Airtight	Wraptite Frametite Roofshield Frameshield Insulation Board Sheathing Board Wraptite-FZ
Flexitite Tape	75mm x 50m	Single	VCL jointing, overlap. Sealing round penetrations	Internal or External	Vapour tight Airtight	Fireshield Procheck Adapt Procheck 125 Procheck 300 Procheck 500 Profoil 86 I
Procheck MultiLap Tape	60mm x 25m	Double or single sided option	Substrate temp fix, overlap fix, double, between lap fix, sealing round penetrations	Internal	Vapour tight Airtight	Procheck Adapt Procheck 125 Procheck 300 Procheck 500
Reflectafoil Tape	100mm x 45m	Single	Reflective membrane jointing	Internal	Vapour tight Airtight	Reflectashield TF 0.81 Reflectatherm Plus Reflectatherm Premier Procheck FR200 Profoil 86 I
Façadeshield UV Tape	60mm x 25m	Single	Façadeshield Jointing	External	Vapour tight Airtight	Façadeshield UV
Probond Tape	15mm x 22.5m	Double	VCL jointing, between layers	Internal	Vapour tight Airtight	Procheck 125 Procheck 300 Procheck 500 Procheck FR200 Profoil 86 I



## Premier Inn, Leeds

Wraptite Tape has once again delivered total peace of mind to the property owners of a brand new Premier Inn hotel in Leeds, providing a vapour permeable air barrier and maintaining the integrity of the building envelope.

The new 136 bedroom, 9-storey hotel was designed by architects Cartwright Pickard, and forms part of the exciting Whitehall Riverside Scheme in the West End of Leeds city centre.

Wraptite Tape was installed as a superior solution to seal the joints on the rigid insulation board behind the rainscreen cladding. Typically an aluminium coated Butyl adhesive tape would be used to seal joints, openings and penetrations. Whilst providing a seal against air leakage, these tapes may not only prevent air, but also prevent the movement of moisture vapour, leading to potential problems and damage to the boards underneath over time. The high vapour permeability characteristics of Wraptite Tape mean that crucially it allows moisture vapour to escape the structure easily, removing the need for an additional breather membrane saving time and cost.

Wraptite Tape was selected by national contractor Topek from Glasgow who carried out the installation of the insulation and cladding for the new hotel. Full condensation risk analysis reports were prepared as part of the specification process.

Wraptite Tape is an assured effective airtight barrier, and because of its high vapour permeability it also allows damp sheathing to dry quickly, and moisture vapour to escape. Thus ensuring good indoor air quality and reducing the likelihood of mould, mildew, condensation, timber distortion and metal corrosion, protecting the essential fabric of buildings for many years to come.

## Heat Air and Moisture Movement – Managing the balance

To maximise the design of a building's energy efficiency a holistic approach is required to provide a total system which fully embraces the principles of HAMM, considering an integrated approach to airtightness and condensation control.

An incorrect specification or installation of effective thermal barriers will lead to unmanaged heat loss, impacting directly on the energy efficiency of the building and its systems. In recent years, schemes by UK and European governments have sought to improve the energy efficiency of buildings, driven by the need to reduce carbon emissions and energy costs. In many cases insulation has been a "silver bullet" to address these needs. However, whilst insulation has a key part to play, the most effective solutions will demand a total system approach from the outset.

Air movement is important in the building envelope both in infiltration and escape. There is a requirement to control interior conditioned air escaping (whether heated or cooled) and exterior air infiltrating which puts more pressure on heating or cooling mechanisms internally. Airtight membranes are an obvious choice in this area whether vapour and open/closed or variable.

Air leakage through cracks, gaps, holes and improperly sealed elements such as doors and windows can cause a significant reduction in the performance of even well insulated envelopes, in some cases reducing their effectiveness by up to 70%. As thermal insulation requirements increase, this reduction in performance is becoming a critical issue; a consensus having emerged in the industry that discrepancies between 'as built' and 'as designed' performance are largely attributable to uncontrolled air leakage. Architects and developers are increasingly turning to air barrier membranes as an essential part of the design process in achieving the most effective means of controlling and reducing air leaks.

Unmanaged or uncontrolled air flow can act as a carrier for moist air, drawing it in from outside, or pulling it from inside, into walls, ceilings and roofs. The impact of this uncontrolled moist air movement can have a long term detrimental effect on the durability and life of the building.

Moisture vapour will pass through the various layers of any construction by both convection and diffusion. The objective is to ensure, by design, that the moisture vapour can disperse to the outside atmosphere without being cooled to below the dewpoint temperature, thus eliminating condensation and associated problems such as mould growth.

Controlling the moisture flow in a building is fundamental to the core principals of HAMM and to maintaining the durability of the building envelope. Well managed moisture maximises energy efficiency by reducing adverse effects on fabric insulation, in addition to protecting the health and safety of the occupants.

To avoid the occurrence of excess condensation, which can result in mould growth and damage to the building fabric and/ or contents, designers should assess the amount of water vapour likely to be generated within the building and determine the resultant increase in internal vapour pressure above that of external air. They should then consider the physical properties of the construction.



*“I believe the success of the A. Proctor Group is down to a solid foundation of innovation backed up by an excellent loyal and committed team, every one of them playing an important role in our continued success. Scotland provides us with a unique platform to launch our ideas, systems and products. I am fiercely proud of this heritage and our brand.”*

**Keira Proctor**  
Managing Director

[www.proctorgroup.com](http://www.proctorgroup.com) | +44 (0) 1250 872261  
[contact@proctorgroup.com](mailto:contact@proctorgroup.com)

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