



POLYBAND®

Version No.6

Revision Date: 20/10/2024

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DESCRIPTION

Polyband® is an extruded butyl tape laminated with a fixed polyester liner.

KEY FEATURES

Prevents air leakage through lap joints in order to conform with the requirements of Approved Document L2:2006.

Can be applied in cold conditions without reduction in long term performance.

Reduces condensation in built up metal roofing systems by effectively sealing the metal liner to conform with the requirements of the Building Regulations Approved Document L2:2006.

Unique high tack adhesive for instant grab.

Conforms with the recommendations of the MCRMA Technical Paper No.14 - Guidance for the Design of Metal Roofing and Cladding to Comply with Approved Document L2:2006.

Special high strength non-tear laminated film.

Outstanding adhesion to coated steel and aluminium sheets without the need for primers.

Supplied in self-wound rolls for easy application.

Very low moisture vapour transmission rate.

Predicted service life can exceed 20 years

USES

A high performance Air Seal and Moisture Barrier Tape developed especially for sealing side lap joints of metal roof and wall liners to reduce condensation and increase airtightness in buildings.

Polyband® can be used as recommended in the MCRMA Technical Paper No.14 Guidance for the Design of Metal Roofing and Cladding to comply with Approved Document L2:2006.

Polyband® can be used on purlins to prevent cold-bridging.

Polyband® can be used to separate different metal components to prevent bimetallic corrosion.

Care must be taken to seal the joints at the eaves, ridge and any pipe or service penetrations in order to provide a completely airtight building.

The use of GCA® preformed butyl sealant is recommended for sealing between the end laps of liner trays

Polyband® can be used to seal sidelaps in steel decking.

Polyband® can be used to overtape joints in vapour control layers.



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TECHNICAL APPROVALS

Polyband® has been independently tested by the Building Research Establishment for sealing metal liners in a built up roofing system (Report No. 16573; 4/2/00). Its performance in reducing the passage of moisture vapour was compared with transmission rates obtained for unsealed liners both with, and without a vapour barrier membrane. The tests demonstrated that when used as recommended, Polyband® was approximately 50% more effective as a barrier to the passage of moisture vapour than a conventional vapour control layer (VCL).

Polyband® conforms with the following for the sealing of side lap joints:-

MCRMA Technical Paper No. 14 - Guidance for the Design of Metal Roofing and Cladding to Comply with Approved Document L2:2006.

The report recommends that side and end laps/joints and all perimeter joints should be effectively sealed, not only to reduce air leakage to a very low level, but also to provide vapour control.

Approved Document L2:2006, Section 1, Elemental Design Method (Summary).

Thermal bridging at junctions and around openings:-

1.9 Construct the building fabric so that there are no significant thermal bridges or gaps in the insulation layer(s) within the various elements of the fabric, at the joints between elements and at the edges of the elements.

1.11 Adopt robust design practices illustrated in MCRMA Technical paper No. 14 and BRE Information Paper IP 17/01

Building Air Leakage Standards:-

1.17 Buildings should be reasonably airtight to avoid unnecessary space heating and cooling demand and to enable the effective performance of ventilation systems.

1.19a Provide reasonably continuous air barrier in contact with the insulation layer over the whole thermal envelope (including separating walls). Guidance for the design of Metal Cladding and Roofing Systems to minimise air infiltration is given in the MCRMA Technical Paper No. 14.

PERFORMANCE

	UNIT	NOMINAL VALUE	TEST METHOD
Dynamic Shear Adhesion	N/cm ²	10	H15
90° Peel Adhesion	N/cm	9	H48
180° Peel Adhesion	N/cm	10	H41
Specific Gravity	g/cm ³	1.6	H6
Moisture Vapour Transmission Rate	g/m ² /24hr/mm	0.15	ISO9932 / BS ISO 15106
Water Vapour Resistance	MN.s/g	3800	ISO9932 / BS ISO 15106
Service Temperature Range	°C	-40 to +90	

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APPLICATION

PROPERTIES

Application temperature range: +5°C to +40°C

Shelf life: 24 months when stored flat in original packaging in cool, dry conditions.

INSTRUCTIONS

Surface preparation: All surfaces should be clean, dry and free from frost, grease and loose materials. When cleaning contaminated substrates, HS Butyl recommend that propan-2-ol (IPA) is used and allowed to dry prior to the application of the butyl tape.

Application: Apply direct from the reel onto one surface and press sufficiently along its whole length to achieve good initial adhesion. The use of a roller to roll the joint, using firm pressure, is recommended to get a good bond.

PACKAGING

The product is supplied as a self wound reel.
Standard: 1mm x 50mm x 35m - 6 rolls per box

The laminate is clear.
The sealant colour is white.

TOLERANCES

Thickness $\pm 10\%$
Width: $\pm 2\text{mm}$

GENERAL

Polyband® is part of a range of butyl products for Industrial Roofing market. For further information, please contact our Customer Care Team or visit our Website.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is user's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. The user is advised to review the specific context of the intended use to determine whether the user's intended use violates any law or infringes upon any patent(s). No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the **H.B. Fuller Conditions of Sale** applicable in the region. Please request a copy if you have not received these or follow the link here: <https://www.hbfuller.com/en/about-us/conditions-of-sale>. These Conditions contain limits of liability and disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose). All other terms are rejected. In any event, (1) **the total aggregate liability of H.B. Fuller** for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, **is limited to replacement of affected products or refund of the purchase price for affected products.** (2) **H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses** arising out of or in connection with product supply. (3) Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence, or for breach of any mandatory implied terms unless permitted by law.

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