PRODUCT DATA SHEET

POLYBAND®

DESCRIPTION

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

KEY FEATURES

12 year warranty (UK & Ireland Only).	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.
Prevents air leakage through lap joints in order to conform with the requirements of Approved Document L2:2006.	Special high strength non-tear laminated film.
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.	Supplied in self-wound rolls for easy application.
Outstanding adhesion to coated steel and aluminium sheets without the need for primers.	Service life can exceed 20 years.
Very low moisture vapour transmission rate.	

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: +5ºC to +40ºC

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 ± 10%

Width: ± 2mm

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.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E &OE.

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