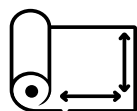
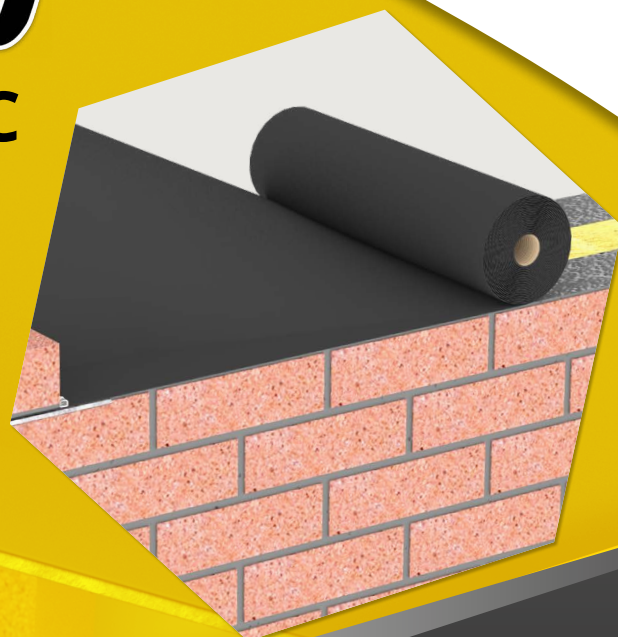


FLEXI-LOAD

PrinciPal
BUILDING PRODUCTS

HIGH PERFORMANCE DPC

Polymer engineered High Performance DPC with a unique embossed surface. Tough, flexible and suitable for cavity trays and as a Radon DPC barrier.



100mm - 1000mm
x 20m



0.9mm



Black Colour

The Advanced Polymeric Damp Proof Solution

Flexi-Load is an innovative, bitumen-free damp proof course (DPC) that combines the latest polymer technology to surpass traditional British Standard DPC's as a horizontal, vertical or stepped damp proof course. Suitable for unsupported cavity trays for sealing cavities to deflect downward movement of water in external cavity walls with masonry inner or outer leafs and timber frame construction. Engineered for durability and flexibility to allow site forming for built in or face fix applications to residential and commercial construction types. Designed to prevent moisture and radon gas ingress, providing a robust barrier allowing continuity with membranes offering whole footprint coverage.



FEATURES & BENEFITS

- **BBA Approved**
Certified for use as unsupported cavity trays
- **Elastomeric Polymer Composition:**
Contains no hazardous pitch or bitumen, providing a safe, modern solution.
- **Cavity tray system:** Robust not to require support along its length
- **Load Resistance:** Withstands high compressive forces, ensuring no extrusion under load.
- **Puncture & Tear Resistance:** High durability even in demanding environments.
- **Flexible Jointing Options:** Joints can be securely taped or welded for watertight installation.
- **Embossed for Adhesion:** Surface texture increases adhesion, reducing slippage.
- **Cold Weather Flexibility:** Remains flexible at low temperatures.
- **Range of Widths:** Available in various standard widths for versatile installation.
- **CE Marked:** Certified to BS EN 14909 standards for reliable performance.
- **Radon Resistant:** Acts as a radon-resistant barrier, enhancing safety and protection.

Web: www.pbpltd.co.uk | Tel: 01709728150

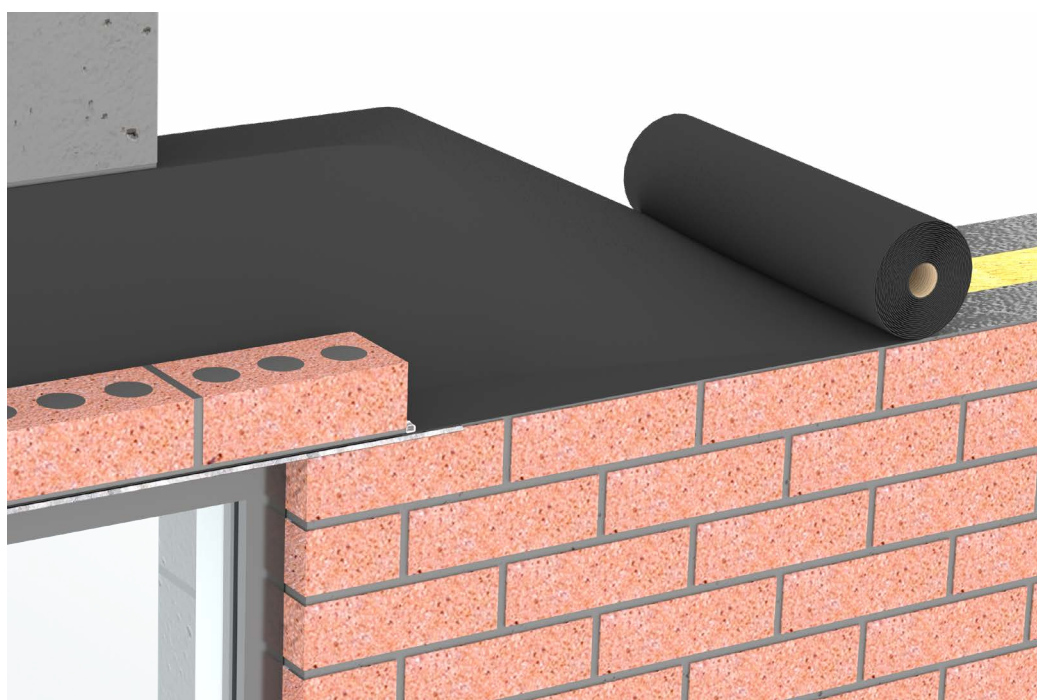
Principal Building Products Ltd, Barbot Hall Ind Est. Mangham Road, Rotherham. S614RJ

Technical Data

Material Properties	Test Method	Value	
Material Type		Elastomeric Polymer	
Thickness	EN1849-2	0.9mm	
Mass	EN1849-2	749g.m ²	
Roll length	EN1849-2	20m	
Roll width	EN1849-2	100mm – 1000mm	
Colour		Black	
Reaction to fire	EN13501-1	E	
Water tightness @ 2kPa	EN1928	Pass	
Water Vapour Permeability	EN1931	0.13 g/m ² /d	
Resistance to impact	EN12691 Method B	≥600mm	
Tensile Strength	EN12311-1	MD - 514N/50mm	CD - 413N/50mm
Elongation at break	EN12311-1	MD - 570%	CD - 610%
Resistance to static loading	EN12730	20kg (Pass)	
Resistance to lower temperature flexibility	EN495-5	≤-40°C	
Durability against ageing	EN1296/EN1928	Pass	
Durability against alkali	EN1847/EN1928	Pass	
Joint strength	EN12317-2	MD - 449N	CD - 520N
Resistance to Tearing	EN12310-1	MD - 370N	CD - 390N
Shear Strength – Pre compression 0.2N/mm ²	BS EN 1052-4	0.33 N/mm ²	
Shear Strength – Pre compression 0.6N/mm ²	BS EN 1052-4	0.50 N/mm ²	
Shear Strength – Pre compression 1.0N/mm ²	BS EN 1052-4	0.60 N/mm ²	
Flexural Strength (Mean Value)	DD 86-1	0.18 Nmm ²	
Radon Permeability	SP Method 3873	<4.8·10 ⁻¹² m ² /s	



EN 14909:2012



Technical Background

The Flexi-Load range of polymeric DPCs and accessories combine strength with flexibility to meet the complex demands of today's construction industry. Designed for high compressive loads, it provides a reliable damp proof barrier that excels under pressure, protecting the building fabric in challenging conditions.



Installation Guide

- Flexi-load must extend through the full thickness of the wall, including pointing, applied rendering or other facing material.
- Ground floor dpc's in external walls should be laid a minimum of 150mm above the adjacent ground level.
- Flexi-load must be laid on a fresh, even bed of mortar central to the mortar joint and never dry bedded.
- All lap joints must have a minimum 100mm overlap and be completely sealed with our LT jointing tape or welded.
- Rigid preformed accessories can aid supporting joints at junctions and corners

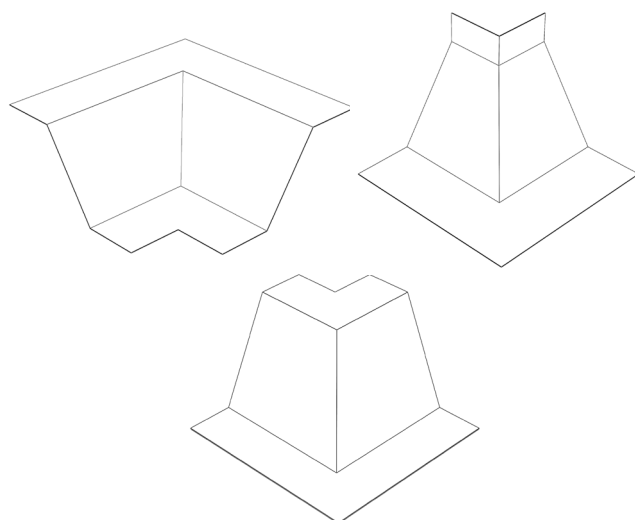
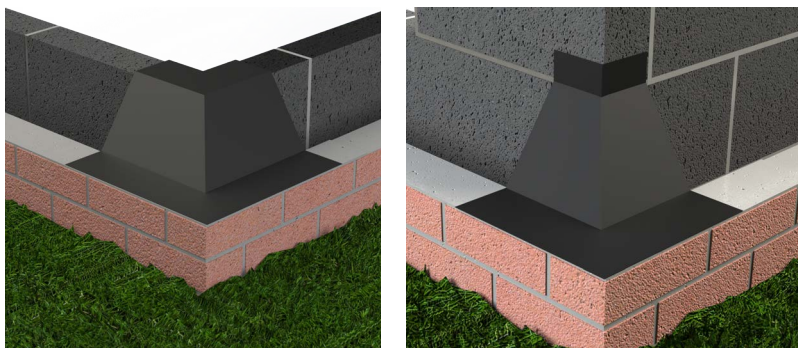
Product Range Accessories

- Our Technical Department is available to advise on individual projects and to prepare or assist in the preparation of schedules and issue drawings.
- Flexi-Load high performance DPC in various roll widths

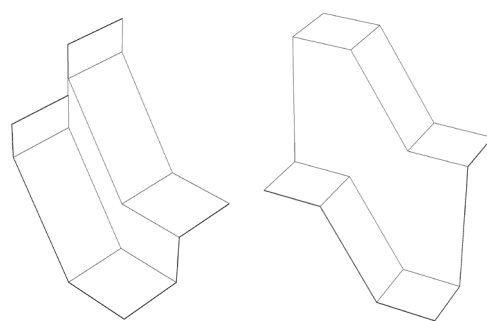
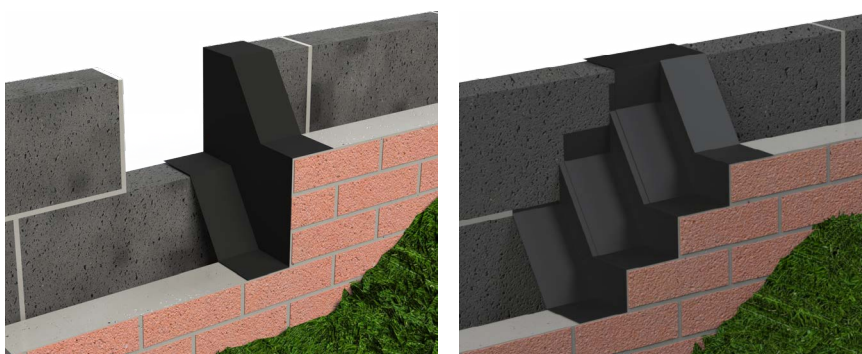
Description	Roll width	Length	Thickness	m ² /roll
Flexi-load high performance DPC	100mm	20m	0.9mm	2
Flexi-load high performance DPC	112mm	20m	0.9mm	2.24
Flexi-load high performance DPC	150mm	20m	0.9mm	3
Flexi-load high performance DPC	225mm	20m	0.9mm	4.5
Flexi-load high performance DPC	300mm	20m	0.9mm	6
Flexi-load high performance DPC	337.5mm	20m	0.9mm	6.75
Flexi-load high performance DPC	450mm	20m	0.9mm	9
Flexi-load high performance DPC	600mm	20m	0.9mm	12
Flexi-load high performance DPC	900mm	20m	0.9mm	18
Flexi-load high performance DPC	1000mm	20m	0.9mm	20

Pre-Formed Accessories

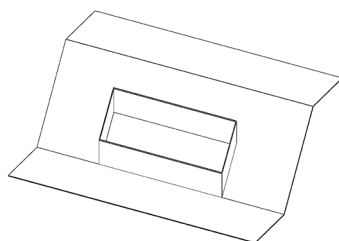
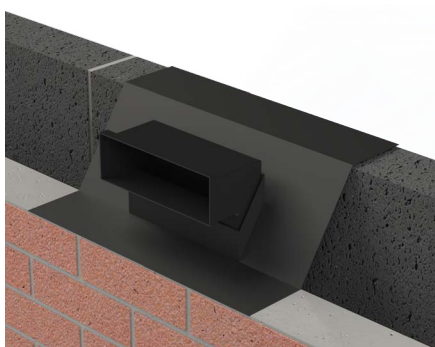
- Pre-formed corners units – for use to return corners for full perimeter cavity tray.



- Pre-formed change in level & stepped units - for use where a cavity tray must step up or down to follow ground level

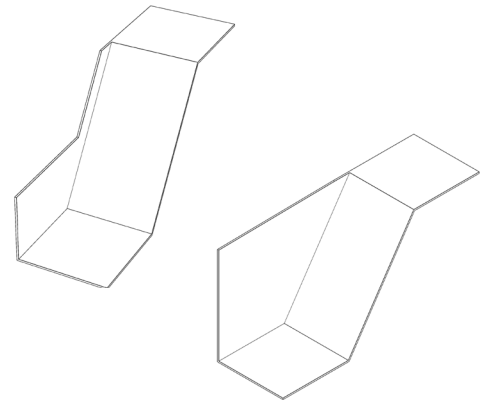
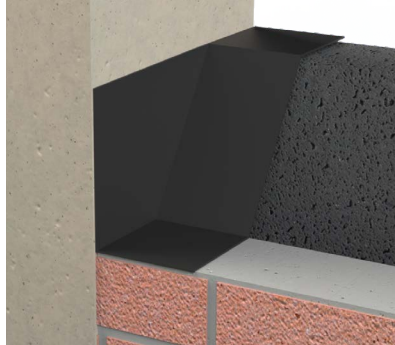
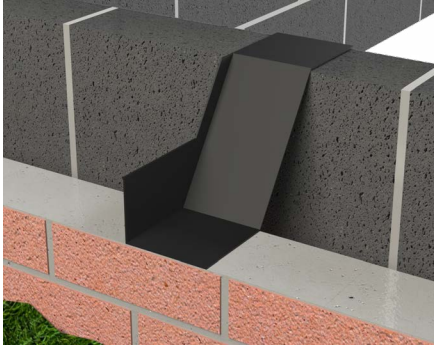


- Pre-formed Telescopic underfloor vent collars – To allow for sealing around ventilation ducts.

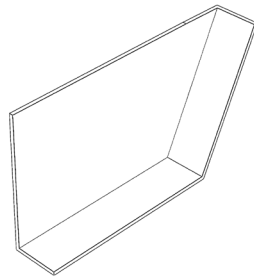
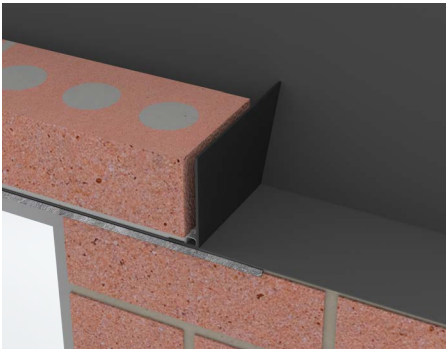


Pre-Formed Accessories

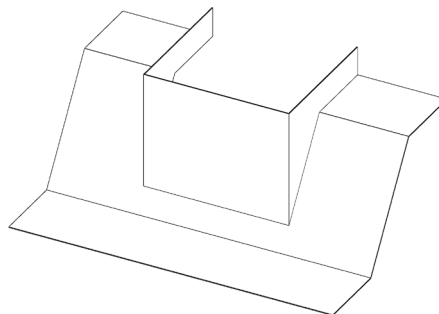
- Pre-formed stop end units - for capping off the ends of a cavity tray run and at column projections



- Lintel stopends - To close off cavity trays above openings

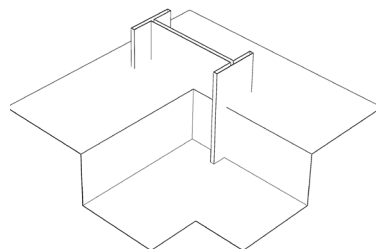
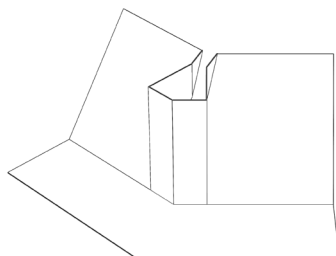
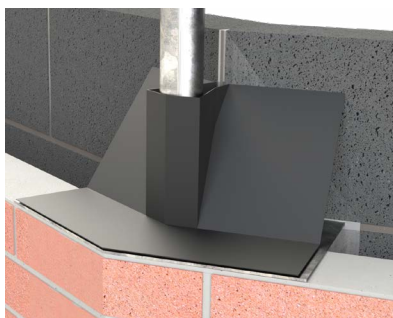


- Preformed column cloaks – for capping column projections that reduce clear cavity size

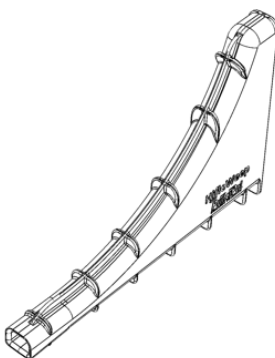


Pre-Formed Accessories

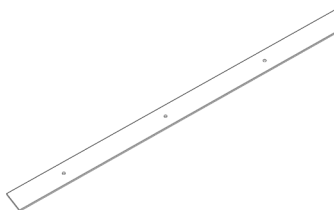
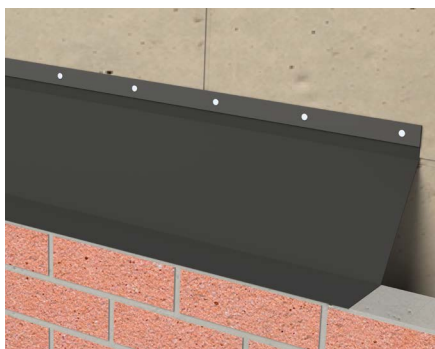
- Special tailor-made accessories are available to order including Windposts and I Beam cloaks



- HifloWeep Wall Weep – for cavity drainage, fitted at regular 900mm centres for linear DPC cavity trays and/or 450mm centres for above openings.



- DPC fixing strip is an easy to handle and use semi flexible plastic PVCu strip 30mm x 2m (packed in 50's) for securing upstands to flexible DPC's by offering uniform retention with additional mechanical fixings (not supplied) via the pre-drilled 4mm holes at 150mm centres.



- LT Jointing strip tape and Reinforced detail strip - for sealing lapped joints in the dpc and/or for sealing to accessories.