TDS

HydroBond Protection Board

Bitumen Impregnated Protection Board

Revision: 2.0 - 14 October 2025
Code: HBPB

INTRODUCTION

Newton HydroBond Protection Board Newton HydroBond Protection Board is a tough, semi-flexible, pre-fabricated protection board designed to safeguard waterproofing membranes. It consists of a mineral-fortified bituminous core compressed between two asphalt-saturated carriers.

This board is primarily used as a protective layer over waterproofing applications in areas such as bridge decks, parking garage decks, terraces, tunnels foundation walls and slabs and wet room floors.

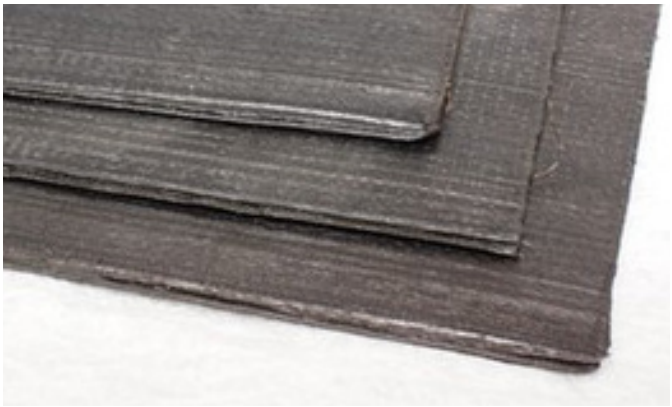
It is specifically intended for use with externally applied Type A waterproofing membranes within the Newton HydroBond System.

Thanks to its durable construction, the HydroBond Protection Board is well-suited to withstand shock and impact from backfilling and paving, normal on-site traffic and concreting and other topping applications.

Additionally, it is resistant to water and chemicals, can be easily cut with a knife, and is quick and simple to install, making it an effective solution for protecting waterproof membranes from damage during construction.

KEY BENEFITS

- Bitumen impregnated protection board
- Resistant to water and chemicals in the ground
- Tough and durable
- Quick and simple to install
- Resistant to thermal shock
- Protect waterproofing against construction traffic, other trades, and impact of backfill soil.
- Compatible with almost all waterproofing membranes such as bituminous, EPDM, TPO, PVC and coatings such as acrylic, polyurethane, epoxy and others.
- Resistant to salts and chemicals normally found in soil (Chlorides, Sulphates, and Phosphates).
- Rot-proof, unaffected by immersion in ground water, and impervious to water.
- Excellent resistance to puncture & normal site conditions.
- Can bridge over gravel embedded roof surfaces, and can be bent to normal contours while maintaining rigidity, due to being semi flexible.



TYPICAL APPLICATIONS

- As a protective barrier for external applied Type A waterproofing membranes in the Newton HydroBond System
- Protective layer between deck waterproofing membrane and hot applied coatings to prevent heat shock

DECLARATION OF PERFORMANCE

There is no Harmonised Standard for protection boards and so it is not possible to produce a DoP or CE label. The table on page 2 confirms the performance data that would be included within the DoP.

PACKAGING

- Board size - 3mm x 1m x 2m
- 100 boards per pallet

COLOUR

Black

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Opening Hours:
Monday to Frdiay 8:00am - 5:00 pm

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TECHNICAL DATA			
Colour	Black		
Thickness	3		mm
Width	1		m
Length	2		m
Weight of board	9		kg
Installed Performance	**Result**	**Units**	**Test Method**
Water tightness - Impermeable to water	100	Kpa	EN 1928
Maximum water absorption	1	%	ASTM D 5174
Minimum weight of loading above the board	240	g/m2	EN 29073
Tensile strength - Longitudinal	700	N/5 cm	EN 12311
Tensile Strength - Transversal	500	N/5 cm	EN 12311
Tear Resistance - Longitudinal	550	N	ASTM D 5147
Tear Resistance - Transversal	500	N	ASTM D 5147
Softening point (R&B)	≥ 150	°C	ASTM D-36
Mass per unit area	± (10%) 4.44	kg/m^2	EN 1849-1
Resistance to static loading	≤ 5	kg	EN 12730
Resistance to impact loading	≤ 900	mm	EN 12691
Salt resistance	Excellent		

SPECIALIST TOOLS REQUIRED

No specialist tools needed.

INSTALLATION

The surface to receive the protection board is normally one which has been waterproofed. The waterproofed surface must be clean, free of any debris, or sharp protrusions.

Apply the protection board directly on the waterproofing membrane as soon as practicable.

Horizontal Application

Butt together all protection board panels and cut to fit all intersecting and protruding surfaces. Cover joints with joint tape if desired. Ensure subsequent ballast layers are applied as soon as possible following protection board application.

Vertical Application

At vertical walls apply in stages starting from bottom and continuing to the height of backfill level.

Hold temporarily by propping in place until backfill is accomplished to avoid board displacement.

Fix the protection board use one of the following methods depending on the type of waterproofing membrane used:

- Cold/hot applied adhesives
- Hot air gun or gas torch to slightly melt the bitumen on the underside of protection board and attach to waterproofing membrane
- Self adhesive tapes

Stagger joints a minimum of 15cm and. Cover joints with joint tape to prevent backfill particles from damaging the membrane. Backfill immediately, using care and caution to avoid damage to waterproofing system.

HEALTH AND SAFETY

Use appropriate PPE for the environment the system is installed within. Use products only as stated within this Data Sheet.

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