

# Solco HD Protection Board

### Description:

Solco Heavy Duty Protection Board is a tough, semi-flexible prefabricated protection board, composed of mineral fortified bituminous core, held under pressure between two asphalt saturated carriers.

### Uses:

Solco Heavy Duty Protection Board is used as a protection layer over waterproofing applications, as well as bridge decks, parking garage decks, terraces, tunnels, foundation walls and slabs, and wet room floors. The tough durable nature of the product makes it ideally suited to withstand the shock and impact of backfilling and paving as well as normal on-site traffic, concreting, or other toppings.

### Compatibility:

Solco Heavy Duty Protection Board is fully compatible with and is used in conjunction with built-up damp-proofing and waterproofing membranes, liquid membrane waterproofing systems, butyl rubber sheeting, asphalt saturated mopping felts, polyvinyl chloride sheeting, neoprene, asphalt cut-backs, fibreglass membrane, the new one and two part coal tar modified urethane and coal tar modified polysulphide liquid membrane systems and Bentonite waterproofing systems..

### Application:

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 Solco Heavy Duty 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:** Protection board is temporarily held in place by spot bonding to the waterproofing membrane using hot asphalt or compatible adhesive. Stagger joints a minimum of 15cm and overlap boards approximately 1cm-2.5cm. 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.

### Backfilling

Backfilling against vertical walls should be done within 48 hours after installing HD Protection Board.

For horizontal applications, the waterproofing and Solco Heavy Duty Protection Board should be installed just prior to the installation of the wearing surface. Backfilling should be done with care and backfill material should not be dropped against Solco Heavy Duty Protection Board in such a manner that it could drag the sheet down as it drops.



- Weather, warp and rot proof
- Excellent flexibility
- High puncture resistance
- Excellent resistance to chemicals
- Compatible with most waterproofing systems.



### Sheet Sizes :

Product Code	Sheet Size (mt)	Thickness (mm)	Colour
BPB3	2 x 1	3.0	Black
BPB4	2 x 1	4.0	Black
BPB5	2 x 1	5.0	Black
BPB6	2 x 1	6.0	Black

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## Technical Data:

PROPERTIES		VALUE				NORM
	Reinforcement	Double Reinforcement				Solco Internal
	Weight of Reinforcement	Min. 240 g/m <sup>2</sup>				EN 29073
Board Thickness / Weight / Dimensions	Nominal Thickness	3.0mm	4.0mm	5.0mm	6.0mm	EN 1849
	Nominal Weight	9kg	12kg	15kg	18kg	EN 1849
	Board Dimensions	2m x 1m				EN 1848
Mechanical Properties	Tensile Strength (Longitudinal)	700N/5cm	800N/5cm	900N/5cm	1000N/5cm	EN 12311
	Tensile Strength (Transversal)	700N/5cm	750N/5cm	750N/5cm	800N/5cm	EN 12311
	Tear Resistance (Longitudinal)	550N	600N	700N	700N	ASTM D 5147
	Tear Resistance (Transversal)	500N	550N	600N	600N	ASTM D 5147
Puncture Properties	Static Puncture Resistance	15kg	20kg	25kg	30kg	EN 12730 A
	Dynamic Puncture Resistance	500mm	600mm	700mm	800	EN 12691 B
Additional Characteristics	Water Tightness	Impermeable to water (100 kpa)				EN 1928
	Softening Point	>150°C				ASTM D 36
	Salt Resistance	Excellent				Solco Internal
	Water Absorption	Max. 1%				ASTM D 5147

## Storage:

Solco Heavy Duty Protection Board is supplied in sheets 1m X 2m in thicknesses of 3mm, 4mm, 5mm and 6mm. Boards should be kept stored in pallets placed on level surfaces under shade or cover. Stack no more than two pallets high.