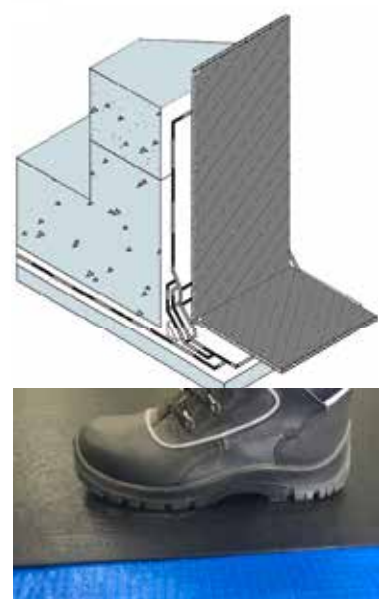




SOLCO HD Protection Board

Solco Heavy Duty Protection Board is a tough durable material used as a protection course for membrane waterproofing materials.

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



| Colour | Product Code | Sheet Size | Sheet Thickness |
|--------|---------------|------------|-----------------|
| Black | SOLCOHDPBOARD | 2m x 1m | 3/4/5/6mm |

SOLCO - System Components

Issue Date 25.08.17

Product 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.

Typical Uses

Solco Heavy Duty Protection Board is used as a protection layer over waterproofing applications on 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.

Features & Benefits

- Protect waterproofing against construction traffic, other trades, and impact of back fill 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.

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 polysulfide liquid membrane systems and Bentonite GCL Lines.

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.

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.

| Product Thickness | Boards per Pallet |
|-------------------|-------------------|
| 3mm | 225 |
| 4mm | 150 |
| 5mm | 125 |
| 6mm | 100 |

SOLCO HD Protection Board

SOLCO - System Components

Issue Date 22.08.17

| TECHNICAL DATA | | | | | | |
|---------------------------------------|---------------------------------|--------------------------------|----------|----------|-----------|----------------|
| PROPERTIES | | VALUE | | | | NORM |
| | Reinforcement | Double Reinforcement | | | | Solco Internal |
| | Weight of Reinforcement | Min. 240 g/m ² | | | | 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 |