



NILOBOARD

Bituminous Protection Board

NILOBOARD is a tough, semi flexible board, for protecting waterproofing applications on bridge and parking garage decks, terraces, tunnels, foundation walls and slabs, and wet room floors against construction traffic, other trades and impact of back fill soil

Advantages

- Can bridge over gravel embedded roof surfaces, and can be bent to normal contours while maintaining rigidity, due to being semi flexible
- Composed of mineral fortified bituminous core, held under pressure between two asphalt saturated carriers
- Compatible with almost all waterproofing membranes such as bituminous, EPDM, TPO, PVC and coatings such as acrylic, polyurethane, epoxy and others
- Can be applied horizontally or vertically
- Resistant to salts and chemicals normally found in soil (Chlorides, Sulphates, and Phosphates)
- Rot-proof, unaffected by emersion in ground water, and impervious to water
- Excellent resistance to puncture & normal site conditions

Application

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

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

Horizontal Application:

Butt together all NILOBOARD 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:

Apply in stages starting from bottom of the wall and continuing to the height of backfill level.

- Temporarily hold by propping in place until backfill is accomplished to avoid board displacement.
- To fix NILOBOARD 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 attached to waterproofing membrane.
 - Self adhesive tapes.
- Stagger joints to 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.

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Packaging

NILOBOARD is supplied in sheets 1m x 2m in standard thicknesses 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	Boards per Pallet
NILOBOARD 3mm	225
NILOBOARD 4mm	150
NILOBOARD 5mm	125
NILOBOARD 6mm	100

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Properties	Value				Norm		
	Weight of reinforcements				Min 240 g/m ²	EN 29073	
Board Size/ Weight/ Thickness	Nominal thickness		3mm	4mm	5mm	6mm	EN 1849
	Nominal weight		9Kg	12Kg	15Kg	18Kg	EN 1849
	Board dimensions		2m x 1m				EN 1848
Mechanical Properties	Tensile strength (longitudinal)		700 N/5cm	800N/5cm	900N/5cm	1000N/5cm	EN 12311
	Tensile strength (transversal)		700 N/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 Resistance	Static puncture resistance		15Kg	20Kg	25Kg	30Kg	EN 12730 A
	Dynamic puncture resistance		900mm	950mm	1000mm	1100mm	EN 12691 A
Additional Characteristics	Water tightness		Impermeable to water (100Kpa)				EN 1928
	Softening point		>150°C				ASTM D 36
	Water absorption		Max. 1%				ASTM D 5147



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