

PLY-GUARD

HIGH PUNCTURE RESISTANCE PROTECTION BOARD



CC Technique Product Data Sheet

Edition: December 2015

Division: 7

Thermal & Moisture Protection

■ The Product

PLY-GUARD is an extruded polypropylene board with a core structure to allow protection for the waterproofing membrane. They are manufactured to resist high puncture that can reach 2100 N (UNI EN 965) for the 5mm thickness. This is the best among all other protection boards. PLY-GUARD is a light weight and semi flexible material that can be quickly and easily installed to minimize the damage that can occur on the waterproofing membrane. It is a valuable buffer against harmful friction.



■ Advantages

- Quick & easy to install
- No cracks under extreme pressure of building structure
- Not affected by solvents, acids and chemicals that are found in contaminated water and soil.
- Impermeable, which is better for the waterproofing membrane
- No rotting or bacterial growth.
- PLY-GUARD can be installed under heavy rain, wind or any other hazardous conditions.

■ Packaging

PLY-GUARD comes in a standard size format (1x2 m). The result is such that wastage is minimized.

Packaging, storage and handling are easy.

Other sizes are available upon request.

■ Compatibility

PLY-GUARD is compatible with common waterproofing membranes: APP, SBS, TPO, PVC and EPDM.

■ Application

On Torched Applied Asphalt membrane: The exposed side of the membrane should be lightly torched in separate spots. When the top exposed layer of the membrane changes into a sticky shiny layer, PLY-GUARD protection board is applied on to it by gentle pressure.

A minimum overlap of 3 to 5cm is recommended.

On Hot Applied Asphalt Liquid Membrane

PLY-GUARD boards are laid down on top of hot asphalt before it cools down.

On Rubber Based Waterproof Membrane

Solvent based glue is to be applied as an adhering agent between the waterproof membrane and the protection board.

■ Structural Features

Versatile, light weight, easy to cut and simple to install, PLY-GUARD is designed to be the perfect solution for surface protection.

PLY-GUARD is made up of two layers held together by hundreds of tiny, thin cellular walls that traverse longitudinally side by side to create a powerful cushioning effect against an application of weight. They are constructed from an innovative material that's tough enough to handle the roughness of a construction site, while flexible enough to use around corners, tricky protrusions and difficult to reach places.

■ Technical Information

Thickness	2.2mm Specs	3mm Specs	4mm Specs	5mm Specs	6mm Specs
Resistance to puncture (UNI EN 965)	700 N	1000 N	1700 N	2100 N	2700 N
Compressive strength	$\geq 3.8 \text{Kg/sq.cm}$				
Water absorption (ASTM 1004)	nil				
Resistance to 30% NaOH (ASTM D 543)	Not affected				
Resistance to 60% NaOH (ASTM D 543)	Not affected				
Resistance to 10% HCl (ASTM D 543)	Not affected				
Resistance to 30% H ₂ SO ₄ (ASTM D 543)	Not affected				
Resistance to mineral oils (ASTM)	Not affected				
Linear dimensioning change due to accelerated aging (ASTM D 1204)	nil				

- The above results are for indication purposes only.
- Exact results can be obtained by testing a sample of PLY-GUARD taken from CCTechnique factory
- Allow 10% Tolerance for the thickness and compressive strength.

Code	Description	Unit Of Sale	Qty	Base Unit	Color
DG222220	PLY GUARD Protection, 2.2mm (T) [1M x 2M]	Board	2	Sqm	Blue
DG223020	PLY GUARD Protection, 3mm (T) [1M x 2M]	Board	2	Sqm	Blue
DG224020	PLY GUARD Protection, 4mm (T) [1M x 2M]	Board	2	Sqm	Blue
DG225020	PLY GUARD Protection, 5mm (T) [1M x 2M]	Board	2	Sqm	Blue
DG226020	PLY GUARD Protection, 6mm (T) [1M x 2M]	Board	2	Sqm	Blue