

BTL-PP PROTECTION

Protection Board

JUNE 2024
REV 05

APPLICATIONS



THE PRODUCT

BTL-PP PROTECTION is an extruded polypropylene protection board with a lightweight, semi-flexible core structure that provides both surface protection and light drainage.

It is designed to minimize potential damage to waterproofing membranes during construction.

USES

BTL-PP PROTECTION provides reliable surface protection during construction and renovation. It serves as an effective barrier against chemical, mechanical, and physical damage for:

- Waterproofing membranes (APP, SBS, TPO, PVC, EPDM)
hot-applied asphalt membranes
torch-applied membranes
rubber-based membranes
- Wooden floorboards & panels
- Railings and carpentry works
- Marble, granite & stone surfaces
- Vertical and horizontal applications on construction sites

BENEFITS

- ✓ High puncture resistance ($\geq 1100-1500$ N)
 - ✓ Weather Resistant: Does not rust, rot, corrode, or support bacterial growth
 - ✓ Chemical Resistance: Resists penetration by acids, oils, detergents, and most liquids.
 - ✓ Flexible & Durable: strong cushioning against loads, flexible for corners and irregular surfaces.
- Cost Effective: easy installation, reduces time and labor costs.

SPECIFICATIONS

| Property | Standard | Unit | BTL-PP PROTECTION | | |
|--|----------------------|------------------|-------------------|---------------|---------------|
| | | | Polypropylene | Polypropylene | Polypropylene |
| Material | - | - | Polypropylene | Polypropylene | Polypropylene |
| Thickness | - | mm | 2.2 | 3.0 | 4.0 |
| Size | - | m | 1.0 * 2.0 | 1.0 * 2.0 | 1.0 * 2.0 |
| Weight | - | g/m ² | ~400 | ~500 | ~600 |
| Water Absorption | ASTM 1004 | - | Nil | Nil | Nil |
| Resistance to 60% NaOH | ASTM D 543 | - | Not affected | Not affected | Not affected |
| Resistance to 30% NaOH | ASTM D 543 | - | Not affected | Not affected | Not affected |
| Resistance to 30% H ₂ SO ₄ | ASTM D 543 | - | Not affected | Not affected | Not affected |
| Resistance to 10% HCl | ASTM D 543 | - | Not affected | Not affected | Not affected |
| Resistance to Mineral Oils | ASTM | - | Not affected | Not affected | Not affected |
| Linear Dimensional Change (Aging) | ASTM D 1204 | - | Nil | Nil | Nil |
| Puncture Resistance | BS EN ISO 12236:2006 | N | ≥ 1100 | ≥ 1300 | ≥ 1500 |

ADDITIONAL INFORMATION

Handling and storage

Standard size: 1.0 m x 2.0 m boards (minimized wastage).

Thickness options: 2.2 / 3 / 4 / 5 / 6 mm (Blue).

Safe Storage: No special storage facilities required

Unit of sale: 2 m² board.

Other sizes available on request.

Installation

Hot-Applied Asphalt – Lay the board directly onto the asphalt before cooling.

Torch-Applied Membranes – Lightly torch the exposed side until sticky, then apply the board with gentle pressure (overlap: 3–5 cm).

Rubber-Based Membranes – Apply solvent-based adhesive between the membrane and board for proper bonding.

Environmental Benefits

Manufactured from 100% recyclable material.

Contributes to LEED MR Credit 4 (post-industrial material, +1 point potential).

Produced using technology compliant with EPA Tier 2 and EU Stage 2 emission levels.

CERTIFICATION

BTL-PP PROTECTION is Tested in accordance with:

ASTM D 543 (Chemical Resistance)

ASTM D 1204 (Dimensional Stability)

ASTM 1004 (Water Absorption)

BS EN ISO 12236:2006 (Puncture Resistance)

Manufactured under factory quality control system (ISO 9001 certified – if applicable).

Environmental compliance in line with LEED standards.

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BTL reserves the right to modify the technical data in this specification sheet, which is based on current production without prior warning.
All indicators in this specification sheet are based upon our experience and current working practices.