

Mapecover 810

Extruded Polystyrene, Fanfold Protection Board

DESCRIPTION

Mapecover™ 810 is a rigid, lightweight, extruded polystyrene (XPS), fanfold protection board designed to protect MAPEI waterproofing membranes on vertical below-grade foundations during the placement of backfill. *Mapecover 810* also can be used in planters as a vertical protection course for MAPEI waterproofing membranes.

FEATURES AND BENEFITS

- As a lightweight fanfold bundle, *Mapecover 810* is easy and fast to install, providing labor savings.
- *Mapecover 810* serves as a protection course for MAPEI waterproofing membranes.
- *Mapecover 810* features a straight-cut hinge, allowing it to lie flat.
- The product's moderate compressive strength withstands backfill pressure.
- Native soils can be used over *Mapecover 810*.
- Unaffected by permanent immersion in water, bacteria and alkalis, *Mapecover 810* will not deteriorate when exposed to these conditions.
- *Mapecover 810* features a clear polystyrene film facer on both sides for added strength.
- Efficient packaging allows for 57 bundles of *Mapecover 810* per pallet, offering 10,944 sq. ft. (1 017 m²) of combined coverage.

WHERE TO USE

- *Mapecover 810* is designed for use in vertical below-grade foundation structures and retaining wall applications.
- *Mapecover 810* is used to protect MAPEI waterproofing membranes during backfill.
- For residential and light commercial construction
- Use with *Mapedrain*™ TD Drainage Composite and its related accessories.

LIMITATIONS

- *Mapecover 810* is not designed to be used at depths greater than 10 ft. (3.05 m).
- *Mapecover 810* is not designed or intended to be used as a waterproofing membrane. Rather, it is an accessory for waterproofing systems.
- Do not leave *Mapecover 810* permanently exposed to ultraviolet (UV) light.
- Backfill must be uniformly compacted in lifts and must consist of clean, compactible soil. If angular aggregate is desired, it must be 3/4" (19 mm) or less, and free of debris, sharp objects and stones larger than 3/4" (19 mm).

SUITABLE SUBSTRATES AND SURFACE PREPARATION

- Before installation of *Mapecover 810*, an appropriate waterproofing membrane must be installed.

PRODUCT APPLICATION

Mapecover 810 can be installed against retaining walls and foundation walls with waterproofing. *Mapecover 810* can be cut to fit the application with a utility knife or scissors. Backfill or gravel may be placed directly onto *Mapecover 810* panels. The panels can terminate on top of the footing, and additional cut pieces can be used to cover the top of the footing.

For standard installation details, follow the MAPEI waterproofing membrane detail drawings at www.mapei.com. For non-standard installation instructions, contact a MAPEI representative.

Methods for Attachment to Waterproofing Systems

Attaching to walls using *Mapebond 720* contact adhesive

Apply *Mapebond*™ 720 over the entire surface of the waterproofing membrane, and then apply the *Mapecover 810* to the membrane. *Mapecover 810* will be permanently secured upon installation of backfill. Backfill should be placed as soon as possible and extended to about 4" to 6" (10 to 15 cm) above the termination edge of the MAPEI waterproofing membrane.

Attaching to walls using *Mapeflex P1 FT* or *Mapeflex P2 NS* sealant

Apply 2" (5 cm) round dabs of *Mapeflex*® P1 FT or *Mapeflex* P2 NS in a 2 x 2 ft. (61 x 61 cm) grid over the entire surface of the waterproofing membrane, and then apply *Mapecover 810* to the membrane. *Mapecover 810* will be permanently secured upon installation of backfill. Backfill should be placed as soon as possible and extended to about 4" to 6" (10 to 15 cm) above the termination edge of the MAPEI waterproofing membrane.

Installation Steps

1. Installation in columns or rows

Mapecover 810 panels can be installed in columns or rows. Each installation method is acceptable and has its advantages depending on the specific project conditions.

In columns: Start at the end of the wall and align the edge of *Mapecover 810* with the corner. Attach *Mapecover 810* starting at the low point of the wall. Adjacent panels should be joined together at their lateral edges tightly, with no gaps.

In rows: Place the longitudinal edge of *Mapecover 810* against the wall so that it is flush with the wall footing and attach the panel to the wall. Adjacent panels should be joined together at their lateral edges tightly, with no gaps.

2. *Mapecover 810* joints

- a. Butt panels tight together without gaps to ensure that the waterproofing membrane is completely

covered and protected.

3. Mapecover 810 termination

- Terminate *Mapecover 810* about 4" to 6" (10 to 15 cm) below the finished grade.

4. Foundation drainage collector/discharge system

- Place *Mapedrain TD Drainage Composite* as required in design details. *Mapedrain TD Drainage Composite* should be installed adjacent to *Mapecover 810*.
- Determine the locations for *Mapedrain TD Fittings* (end outlet, side outlet, splice and corner). Cut *Mapedrain TD Drainage Composite* to the proper length between the fittings, allowing for extra length for insertion into fittings. Insert *Mapedrain TD Drainage Composite* completely into the fittings. Tape the fittings with duct tape.
- Secure the fittings and *Mapedrain TD Drainage Composite* to the base of the wall with soil, *Mapebond 720* contact adhesive, *Mapectex P1 FT* sealant or *Mapectex P2 NS* sealant.
- Connect the base fittings to 4" (10 cm) corrugated plastic drain pipe and run it to a sump pump or daylight. Special care should be taken to properly compact soil under the drain pipe to prevent settling.
- Backfill and compact the soil in lifts.

5. Collector pipe

- Install *Mapecover 810* as specified in the installation instructions above.
- Place the collector pipe as required in the design details.
- Encapsulate the collector pipe in a gravel bed with a supplemental section of a filter fabric as a separator/filter.

Product Performance Properties

Laboratory Tests	Results
Color	Tan
Thickness	1/4" (6 mm)
Compressive strength – ASTM D1623	8 psi (0.06 MPa)
Thermal resistance at 1/4" (6 mm), ASTM C518 at 75°F (24°C) mean temperature, ft ² /h/°F/Btu, R-value*, minimum	R-1
Density – ASTM D1622 Fresh, foam core only, minimum Fresh, foam core, maximum	1.9 lbs. per cu. ft. (30.4 kg per m ³) 2.9 lbs. per cu. ft. (46.4 kg per m ³)
Flame spread** – ASTM E84	10
Smoke developed – ASTM E84	200

*R means resistance to heat flow. The higher the R-value, the greater the insulating power.

**This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Shelf Life

Limitless shelf life when stored in original, unopened packaging

Packaging and Coverage

Bundle: 4 x 48 ft. (1.22 x 14.6 m), covering 192 sq. ft. (17.8 m²) each; packaged 57 bundles per pallet

ADDITIONAL INFORMATION

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

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Customer Service

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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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