

Description:

The Pli-Dek 4.2 Drain Board performs a multi-faceted role by providing protection for waterproofing systems and managing subsurface water around building foundations. Soil backfill is retained while allowing water to pass into the drainage system providing hydrostatic relief. Collected water is then conveyed to collection systems.

The Pli-Dek 4.2 Drain Board consists of an impermeable polypropylene sheet cusped under heat and pressure to form a high flow dimpled drainage core. The core is then bonded to a layer of non-woven filter fabric. The filter fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass into the drainage core.

Uses:

- Pli-Dek System – “U”
- Con-Dek System – “U”
- HD System
- Hot Rubber
- Polymer Modified Asphalt (PMA)
- Cold Rubber High Build (CR)

Applications:

- Foundation Walls
- Retaining Walls
- Planters & Roof Gardens
- Bridge Abutments
- Under Slabs

Specifications:

The Pli-Dek 4.2 Drain Board maintains a very high flow rate while providing a higher compressive strength for greater depths. In addition, a membrane protective film is adhered to the back side. A very popular choice for vertical and horizontal single sided drainage applications.

Availability:

The Pli-Dek 4.2 Drain Board is available in 50 ft. length rolls in the following widths:

- 4 ft. (1.22m)
- 6.5 ft. (1.98m)
- 8 ft. (2.44m)

Application Instructions:

Vertical Installation:

1. Measure wall height or lift, adding sufficient material for overlapping pipe detail. Unroll Drain Board and cut to length.
2. Peel back fabric from drainage core and remove 4" of core. (Drain core should remain 6 - 12 inches below backfill.)
3. Glue fabric to wall or tuck fabric under core when using a furring strip. (Furring strip can be removed after backfilling.)
4. Glue adjacent panels at the vertical joints, making sure that fabric overlaps to prevent soil intrusion when backfilling.
5. At drain tile, peel back fabric from drainage core and wrap around drain tile. Tuck excess fabric under core, making sure inner core has direct contact with drain tile.
6. Backfill as soon as possible.

NOTE: Drain Board can also be applied horizontally in a vertical application, as follows:

1. Install horizontally in lifts.
2. To ensure filter continuity, glue the overlap fabric from the upper lift to the lower lift.
3. Glue or nail the top of the final lift.

Horizontal Installation:

1. Clean horizontal surface of loose debris and unroll Drain Board fabric side up in the direction of maximum slope.
2. Attach Drain Board to the surface with double-sided tape, adhesive or nails that are compatible with waterproofing membranes.
3. For overlaps, place adjacent panels so that the cores abut.
4. Secure the fabric overlap at five foot intervals with glue, tape or nails.
5. *Join roll ends by peeling back fabric and removing 4" of core.
6. Place end panels so that cores abut, then glue, tape or nail fabric overlap.

*NOTE: All core joints must be covered by fabric overlay.

Technical Data: Core

Compressive Strength (ASTM D-1621)	15,000 psf (718 kNm ²)
Thickness (ASTM D-1777)	.40 in. (10.16cm)
Flow (Hydraulic gradient = 1) (ASTM D-4716)	21 gal/min/ft (260 l/min/m)

Technical Data: Fabric

Flow (ASTM D-4491)	140 gal/min/ft ² (5704 l/min/m ²)
Puncture (ASTM D-6241)	250 lbs. (1.113 kN)
AOS (EOS)	70 U.S. Sieve (2.12 mm)
Grab Tensile (ASTM D-4632)	100 lbs. (.45 kN)

Limitations:

Not recommended for below grade. Do not apply to frost covered surfaces, or below 13°C (55°F). Do not apply if rain is expected in 24 hours and it must remain over 13°C (55°F) temperature for 24 hours.

Disclaimer:

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Technical Assistance:

Contact Pli-Dek Systems, Inc. for any job specific questions.

