

### Description:

The Pli-Dek GRS150 Drain Board consists of an impermeable polymeric sheet cusped under heat and pressure to form a high flow dimpled drainage core. The core is perforated, then bonded to PD RB root resistant filter fabric on top and protection fabric on the bottom, specifically designed for Green Roof applications. The top root resistant filter fabric prevents roots from affecting the efficiency of the drainage/aeration layer and retains soil or other fine particles from being washed away and allows water to pass into the drainage core. The bottom protection fabric safeguards the waterproofing membrane, the core is installed dimple side down to allow water retention. The excess water is collected and conveyed to a proper collection system.

### Uses:

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

### Applications:

- Planters
- Green Roofs

### Advantages:

- Polypropylene core
- Filters fine particles
- Low Cost
- Easy Install/No Loose fabrics
- Pre-assembled drain system
- 100% Post-consumer PD RB recycled filter fabric
- Root, mildew, and rot resistant
- Water retention chambers (0.42 gal/sqft)
- Reduces weight of Greenroof (no gravel necessary)

### Availability:

PD GRS150 Drain Board is available in 4 ft. wide by 50 ft. long rolls.

### 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)	15,500 psf (719 kNm <sup>2</sup> )
Thickness (ASTM D-1777)	.40 in. (1.016 cm)
Flow (Hydraulic gradient = 1) (ASTM D-4716)	21 gal/min/ft (261 l/min/m)
Water Retention	.042 gal/sq ft

### Technical Data: Fabric

	Front	Back
Basis Weight (ASTM D-3776)	100 gsm	129 gsm
Grab Tensile (ASTM D-5034)	75/70 lbf	90 lbs.
Grab Elongation (ASTM D-5034)	40%	60%
Thickness (ASTM D-1777)	.49 mm	1.3 mm
Trapezoidal Tear (ASTM D-1777)	20 lbs	40 lbs
Water Flow Rate (ASTM D-4991)	250 gal/min/ft <sup>2</sup>	140 gal/min/ft <sup>2</sup>

### Disclaimer:

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### Technical Assistance:

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

