

**GENERAL DESCRIPTION**

Floradrain FD40 is made of recycled polyethylene, molded into a three-dimensional panel. The unique design provides retention cups on the top side, drainage channels on top and bottom and holes in the tops of the “domes” for ventilation and evaporation.

**BASIC USE**

Floradrain FD40 is specifically designed to act as a drainage and water retention element in Hydrotech’s Garden Roof® Assembly. FD40 may be utilized under “extensive” or “intensive” landscaping.

**TECHNICAL DATA**

PANEL DIMENSIONS:	3.3 ft. X 6.6 ft. (1 m X 2 m)
PANEL HEIGHT:	1 ½ in. (40 mm)
WEIGHT: w/cups empty*	0.4 lb/ft <sup>2</sup> (2.2 kg/m <sup>2</sup> ) - dry; 1.2 lb/ft <sup>2</sup> (5.9 kg/m <sup>2</sup> ) – wet
w/cups filled*	3.4 lb/ft <sup>2</sup> (16.6 kg/m <sup>2</sup> ) - dry; 4.9 lb/ft <sup>2</sup> (23.9 kg/m <sup>2</sup> ) - wet
COMPRESSIVE STRENGTH: ** (ASTM D1621)	2,275 lb/ft <sup>2</sup> w/cups empty; 8,000+ lb/ft <sup>2</sup> w/cups filled
FLOW RATE: (ASTM D4716)	49 gal/min/ft width (hydraulic gradient = 1)
WATER RETENTION:	≈0.1 gal/ft <sup>2</sup> (4 l/m <sup>2</sup> ) cups empty; 0.17 gal/ft <sup>2</sup> (7 l/m <sup>2</sup> ) cups filled
VOLUME TO FILL: *	≈0.06 cu.ft. for every 1 sq.ft. in area (17 l./m <sup>2</sup> )

\* cups filled = Floradrain element filled with expanded lightweight aggregate (LiteTop mineral soil) level with tops of element domes

\*\* comp. strength reported @ Floradrain deformation of 30% - at which point load is taken by mineral fill

**INSTALLATION**

- FD40 is to be installed loose-laid over the Root Barrier, STYROFOAM® insulation or Moisture Retention Mat SSM45® over the entire surface of the roof.
- FD40 is easily cut to fit around penetrations, perimeters, drains, etc. with a heavy-duty utility knife or small- toothed saw.
- Adjacent panels are typically butted together.
- As substrate soil loads are typically shallow, lightweight and made up primarily of mineral soil, the retention cups of FD40 are typically not filled with mineral soil.

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