

FlexDrain

CT FlexDrain is a flexible, tough, dimpled polypropylene sheet that creates a permanent drainage and ventilation cavity on the exterior of roofs or walls. Adjacent sheets precisely overlap and interlock for gap-free coverage, and six-foot wide rolls minimize the number of seams.

For protected membrane (inverted) green roofs, FlexDrain is typically used in conjunction with CT Protection Mesh to protect rigid polystyrene insulation and preserve its thermal value. First Protection Mesh is applied over the insulation to structurally reinforce the insulation surface and prevent planting media from penetrating insulation seams; then FlexDrain is applied on top to provide drainage, ventilation, and mechanical protection. Although not a true root barrier, FlexDrain minimizes root penetration into insulation.

CT FlexDrain can be applied on the exterior of foundation walls to relieve hydraulic pressure, often eliminating the need for waterproofing.



PHYSICAL CHARACTERISTICS

Property	Test Method	US	Metric
Dry Weight (typical)	-	25 oz/yd ²	850 g/m ²
Thickness (typical)	-	5/16 in	8 mm
Water Retention (typical)	-	0.05 gal/ft ²	2.0 l/m ²
Saturated Density (typical)	-	0.6 lb/ft ²	2.9 kg/m ²
Flow Rate, i = 0.10 (250 psf = 12 kpa)	ASTM D4716	3.7 gal/min/ft	46 l/min/m
Compressive Strength (typical)	ASTM D1621	6700 lb/ft ²	32700 kg/m ²
Roll Dimensions (typical)	-	6 ft x 50 ft	1.8 m x 15.3 m
Roll Surface Area (typical)	-	300 ft ²	27.8 m ²
Roll Weight (typical)	-	52 lb	24 kg

(allow 10% additional material for overlaps)

INSTALLATION

Rolls of CT FlexDrain should be protected from sunlight when stored for any length of time.

CT FlexDrain is rolled with the dimples facing outward for rapid installation. Overlap two rows of dimples at all seams. To seal the seams, apply 1-1/2" wide butyl seam tape centered over the fourth row of dimples from the edge without a flange, overlap the tape with the flange of the next sheet, and apply firm pressure with a seam roller.

For inverted green roofs, first unroll CT Protection Mesh over the insulation, overlapping adjacent sheets approximately six inches. Then apply Flex Drain directly over the mesh with the dimpled side facing downward.

For walls, mechanically attach the second row from the top after carefully positioning the sheet so that the dimples overlap with the sheet below.