

# GREENSCAPES® GS-120

## ROOT BARRIER

### DESCRIPTION

GS-120 Root Barrier is a 20-mil (0.50 mm) thick, thermoplastic weldable root barrier liner used within waterproofing and greenroof assemblies. GS-120 is manufactured with polyester woven fabric coated with a thermoplastic coating to provide high tensile strength, high puncture resistance, low moisture vapor permeability, as well as excellent resistance to roots and decay. The overlap seams of GS-120 are typically hot air fused together to form a seamless connection to impede root penetration.

### APPLICATIONS

GS-120 is typically installed above the reinforced asphalt protection (RAP) sheet course and below other components including insulation and drainage layers. GS-120 is primarily used in the Strataseal HR Protected Membrane Roof Assembly, Plaza Deck Assembly, Greenroof Assembly,

or Landscaped Assembly as the root barrier protection layer. For applications that require a welded root barrier overlap seam use GS-120 Root Barrier.

### INSTALLATION

Install GS-120 Root Barrier over the waterproofing membrane assembly. Unroll and install GS-120 over the waterproofing protection course with minimal wrinkles and air pockets. Overlap adjacent sheet edges a minimum 6" (150 mm) and construct all seams with a continuous thermoplastic weld. Extend GS-120 installation up all roofing termination points and flashing to provide total root protection to all roof/flashing surfaces that will be subsequently covered with growing media.

Cut as required to fit around all penetration and drainage details. As applicable, seal all cut edges and seal around detail

with a continuous thermoplastic weld. As GS-120 Root Barrier is installed loose-laid, temporary ballasting may be required prior to the installation of subsequent topping materials. Temporary ballast should be a material that will not puncture the root barrier such as sand bags and milled lumber. Upon completion of root barrier layer installation, install subsequent toppings as soon as possible within 30 days to prevent damage.

### PACKAGING

GS-120 roll size is 61" (1.6 m) x 100' (30.5 m) - 508 sq ft (47 sq m) per roll. Typical roll weight: 65 lbs (79 kg).

## PHYSICAL PROPERTIES

PROPERTY	TEST STANDARD	TYPICAL VALUE
Grab Tensile	ASTM D751 Procedure B	375/350 lb (1669/1557 N)
Strip Tensile	ASTM D751 Dielectric Weld	10 lb <sub>f</sub> /in ( 9 daN/5 cm)
Hydrostatic Resistance	ASTM D751 Procedure A	500 psi (3.45 MPa)
Puncture	ASTM D4833	258 lbs (1.147 kN)

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