PRODUCT DESCRIPTION

**Ram Retention 2500** is a plastic panel made from recycled high density Polyethylene for vegetated roof water storage and excess drainage. The unique design offers bottom-sided vapor diffusion, open channel drainage and top-side diffusion.

The panels are specially designed for use on protected membrane greenroof assemblies.

**AREAS OF USE:**
- Beneath intensive green roofs with drainage gradient
- Beneath green surfaces for occasional vehicular use (e.g. fire access route, parking spaces, etc.) when filled with ballast and covered with filter fabric layer.

**PROCESSING:**
- Only use for multi-layer build-ups backfilled with drainage material, flush with top edge of panel, and an overlapping layer of filter fabric.
- Lay the panels with abutting edges on a suitable protective surface material.
- Fill immediately with aggregate substrate to protect against wind drift.
- Alternatively, fill with water instead of using aggregate (also recommended in summer for cooling).

**PACKAGING:** Panels are shipped on pallets
- Panel dimensions: approx. 6.6 ft. x 3.4 ft. (approx. 2.03 x 1.03 m)
- Panel surface: approx. 22.55 Ft.² (approx. 2.095 m²)
- Quantity per pallet: 180 panels = approx. 4,058 Ft.²/pallet (approx. 377 m²/pallet)

**TECHNICAL DETAILS AND PROPERTIES**

| Material: | Recycled HDPE |
| Nominal Thickness: | approx. 2.36 inches (approx. 60 mm) |
| Surface Weight: | approx. 0.72 lbs./Ft.² (approx. 3.5 kg/m²) |
| Color: | black/grey |
| Compressive Strength Filled: | approx. 100 psi (695 kN/m²) |
| Max. Pressure resistance at 10% compression: | 14,500 lbs./Ft.² (filled flush) |
| Fill Volume (loose material): | Filled with Skyland drainage material filled flush with the top edge of the panel. Approx. 0.15 cu ft./Ft.² |
| Water Storage: | Filled with drainage material: approx. 0.56 gal./Ft.² |

**APPLICATION GUIDELINES**

**Greenroof-Roofscapes®**
- Only use for multi-layer build-ups backfilled with drainage material, flush with top edge of panel, and an overlapping layer of Polyfelt 3.5 filter fabric.
- Lay the panels with abutting edges on a suitable protective surface material
- Alternatively, use water instead of drainage aggregate (also recommended in summer for cooling)

**PRODUCT SAFETY INFORMATION**

Ram Retention 2500 offers no unusual health or safety risks for a product of this nature. As with any moisture control process, proper clothing and eye protection is important.

**Note**
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