SUSTAINABLU

On Structure Stormwater Management Systems

Product # **734**

2.3" Sloped Lightweight Drainage / Retention Board

Our 2.3" Sloped Lightweight Drainage / Retention (DR) Board is designed for drainage, slippage prevention, and water storage on extensive vegetated roofs with a slope of up to 35°. Specific to this product, it:

- is a waffled EPS panel that **retains water within pockets** on the upper side, making water available to vegetation
- has good water storage functionality due to the cascade-like **overflow of overlapping chambers**
- permanently **protects against slippage** of the vegetated roof by filling the storage chambers with substrate
- channels surplus water through its **bottom-sided canal system** for secure drainage
- allows for the incorporation of a complete array of zone appropriate **drought tolerant plantings**; in a less than 6" depth assembly

Pitched Roof Board FKD 58SD by

OPTIGRÜN® ROOF GREENING

- Special order product
- Full Pallet
- Full Load
- 40 Boards per Pallet (358 ft²)
- 24 Pallets per Load (8,592 ft²)

Technical Data

Materials:
- High Strength Expanded Polystyrene (EPS)

Material Thickness:
- 2.28"

Board Dimensions (W x L):
- 2' 4 1/8" x 3' 9 7/8"

Board Area:
- 9.36 ft²
- 8.93 ft² (effective coverage)

Board Weight:
- 0.18 lbs. / ft²

Water Holding Capacity (unfilled):
- 0.17 in³ / in² (0.105 gal / ft²) (15° Slope)
- 0.13 in³ / in² (0.083 gal / ft²) (30° Slope)

Drainage Performance (fully saturated):
- at 10° Slope = 29.01 in³ / ft / sec
- at 20° Slope = 41.66 in³ / ft / sec
- at 30° Slope = 54.68 in³ / ft / sec

Vegetated Roofing Use:
- Extensive sloped vegetative roofs with a slope between 15° & 35° using a complete array of zone appropriate drought tolerant plantings

Installation Requirements:
- Butt boards tight together
- Fill boards directly with substrate immediately to protect from wind uplift