

## EXTENSIVE 1" DRAINAGE / RETENTION BOARD

Our Extensive 1" Drainage / Retention (DR) Board is designed for extensive vegetated roofs requiring moderate water storage. Specific to this product, it:

- is a semi-rigid waffled plastic sheet that **retains water within pockets** on the upper side, making water available to vegetation
- has **drill holes to drainage channels** for diffusion and irrigation
- 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



Drainage and Storage Board FKD 25 by

**OPTIGRÜN**<sup>®</sup>  
ROOF GREENING



LEED Credits available for:  
• Materials & Resources (MR)



- Individual Unit
- Full Section
- Full Pallet



- 21.52 ft<sup>2</sup> per Unit
- 50 Units per Section (1,076 ft<sup>2</sup>)
- 7 Sections per Pallet (7,532 ft<sup>2</sup>)

### TECHNICAL DATA

#### Materials:

- Recycled HDPE

#### Material Thickness:

- 0.98"

#### Board Dimensions (W x L):

- 3' 3 3/8" x 6' 6 3/4"

#### Board Area:

- 21.52 ft<sup>2</sup>

#### Board Weight:

- 0.28 lbs. / ft<sup>2</sup>

#### Compressive Strength:

- 29.00 lbs. / in<sup>2</sup> (unfilled)
- 25.38 lbs. / in<sup>2</sup> (filled)

#### Water Holding Capacity:

- 0.20 in<sup>3</sup> / in<sup>2</sup> (0.122 gal / ft<sup>2</sup>) (unfilled)

#### Drainage Performance (fully saturated):

- at 1% Slope = 18.41 in<sup>3</sup> / ft / sec
- at 2% Slope = 26.22 in<sup>3</sup> / ft / sec

#### Vegetated Roofing Use:

- Extensive vegetative roofs using a complete array of zone appropriate drought tolerant plantings

#### Installation Requirements:

- Overlap boards by one cup
- Cover boards with overburden immediately to protect from UV rays & wind uplift