

# Data Sheet

## Meander Element 30

Plastic panel made from deep-drawn recycled HDPE for use on extensive green roofs with inclines up to 5°. No water storage function. Channel system on the underside for drainage with a strong discharge delay effect.



### Technical data and properties:

**Material:** recycled HDPE  
**Nominal thickness:** 30 mm  
**Area weight:** 1.7 kg/m<sup>2</sup>  
**Colour:** grey-black  
**Compression strength (unfilled):** approx. 115 kPa (= kN/m<sup>2</sup>) at approx. 12.4% compression (as per DIN EN ISO 25619-2):

### Features:

Available as "Meander 30" and "Meander extra light" system layer build-ups  
 Temporary water storage capacity (fill volume) approx. 19l/m<sup>2</sup>  
 Discharge coefficient C (measured in accordance with FLL green roof guidelines):

		Meander 30	Maender extra light
as a 3-layer build-up 2% (approx.1°):	AB-value:	C = 0.01	C = 0.12
as a 3-layer build-up 9% (approx.5°):	AB-value:	C = 0.15	- - -

**Note:** According to inspection specifications of DIN ISO 12958 for the determination of the water run-off capacity the run off within a system will be measured over a period of 15 min. For the standard build-up "Meander 30", at 2% slope, the peak discharge coefficient is C=0.01. After 15 minutes higher run off values are quite possible. For that reason a peak discharge coefficient of **C=0.1** needs to be considered for the dimensioning of the corresponding drainage facilities. It is assumed that a proper planning of fully functional overflows will be carried out.

### Water discharge capacity:

(pursuant to DIN EN ISO 12958)

$\sigma = 20$  kPa, soft/rigid, MD, with a type 105 filter fleece covering on the top side

i = 0.01 (= 1 % incline):	0.162 l/(m*s)
i = 0.02 (= 2 % incline):	0.228 l/(m*s)
i = 0.05 (= 5 % incline):	0.363 l/(m*s)
i = 1 (vertical):	1.709 l/(m*s)

### Delivery form:

Panels on pallets

Pack dimensions:	1.95 x 1.03 m
Coverage:	1.92 x 1.00 m
Area of coverage per panel:	1.92 m <sup>2</sup>

**Quantity per delivery unit:** 250 units per pallet = 500 m<sup>2</sup> per pallet, lesser quantities on request

### Area of application:

Beneath multi-layer extensive greening on roofs with inclines up to 5° (= approx. 9%) with particularly high demands on a discharge delay effect

### Processing:

Lay unfilled with a filter fleece cover; allow edges to overlap.  
 Fill with substrate immediately after laying to prevent wind drift.

### Storage:

Lay flat; keep cool and dry; protect from UV radiation during extended storage periods

*The above mentioned values are guidelines only, obtained in in-house laboratory or official test laboratories. These values have a certain production tolerance and variation due to manufacture and correspond to Optigreen's technical knowledge at the time they were published. It is Optigreen's prerogative to amend and/or modify these values when additional knowledge is obtained, as well as to introduce modifications of the features. Technical changes and misprints remain reserving.*