



Data sheet

DoPEC40120-002

ND Egg Crate 40120 - panels

Material Properties	Standard	Unit	Performance	
Core	-	-	HIPS	
Filter geotextile	-	-	-	
Separation film	-	-	-	
Separation geotextile	-	-	-	
Mechanical Properties (mean values)				
Compressive strength	hEN ISO 25619-2	kPa	140	
Tensile strength ¹ (MD/CMD) ²	hEN ISO 10319	kN/m	130	
Physical Properties				
Construction height at 2 kPa	-	mm	38	
Dimple height at 2 kPa	-	mm	38	
Perforations per m ²	-	-	-	
Diameter perforations	-	mm	-	
Water reservoir dimples up	-	l/m ²	9	
Water reservoir dimples down	-	l/m ²	3.5	
Material dimensions (L x W) per panel	-	m	2.4 x 1.20	
Mass per unit area	-	g	1,272	
Surface area per panel	-	m ²	2.9	
Panel weight	-	kg	3.6	
Drainage Capacity (mean values)³				
Vertical drainage / Wall - gradient i=1				
Surface load	Build-in-depth		Dimples up	Dimples down
20 kPa	2.0 m	hEN ISO 12958 4	l/(s.m)	16.24
30 kPa	3.0 m	hEN ISO 12958 4	l/(s.m)	18.72
50 kPa	5.0 m	hEN ISO 12958 4	-	-
100 kPa	10.0 m	hEN ISO 12958 4	-	-
200 kPa	Exceptional	hEN ISO 12958 4	-	-
Horizontal drainage / Roof				
Fall = 1 % - Exceptional case				
≤ 10 kPa - extensive green roof		hEN ISO 12958 4	l/(s.m)	1.66
≤ 20 kPa - intensive green roof		hEN ISO 12958 4	l/(s.m)	1.75
100 kPa - podium roof deck		hEN ISO 12958 4	-	-
200 kPa - parking roof deck		hEN ISO 12958 4	-	-
Fall = 1.5 %				
≤ 10 kPa - extensive green roof		hEN ISO 12958 4	l/(s.m)	-
≤ 20 kPa - intensive green roof		hEN ISO 12958 4	l/(s.m)	-
100 kPa - podium roof deck		hEN ISO 12958 4	-	-
200 kPa - parking roof deck		hEN ISO 12958 4	-	-
Fall = 2 %				
≤ 10 kPa - extensive green roof		hEN ISO 12958 4	l/(s.m)	3.32
≤ 20 kPa - intensive green roof		hEN ISO 12958 4	l/(s.m)	2.20
100 kPa - podium roof deck		hEN ISO 12958 4	-	-
200 kPa - parking roof deck		hEN ISO 12958 4	-	-
Fall = 2.5 %				
≤ 10 kPa - extensive green roof		hEN ISO 12958 4	l/(s.m)	-
≤ 20 kPa - intensive green roof		hEN ISO 12958 4	l/(s.m)	-
100 kPa - podium roof deck		hEN ISO 12958 4	-	-
200 kPa - parking roof deck		hEN ISO 12958 4	-	-
Fall = 3 %				
≤ 10 kPa - extensive green roof		hEN ISO 12958 4	l/(s.m)	2.83
≤ 20 kPa - intensive green roof		hEN ISO 12958 4	l/(s.m)	3.15
100 kPa - podium roof deck		hEN ISO 12958 4	-	-
200 kPa - parking roof deck		hEN ISO 12958 4	-	-

*Tested: no sealing cord / hard/soft white filter geotextile / dimples 45 degrees to MD (Machine Direction)

The values correspond to average results obtained in our laboratories and outside institutes and are indicative. The right is reserved to make changes at any time without notice. Standard variations in mecha 15 % and in hydraulic properties of 20 % and in physical properties of 5 % are normal.

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