



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	-
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	2.3 x 1.20
Mass per unit area	-	g	1,240
Surface area per panel	-	m ²	2.8
Panel weight	-	kg	3.4
Drainage Capacity (mean values) ³			
Vertical drainage / Wall - gradient i=1			
Surface load	Build-in-depth		
20 kPa	2.0 m	hEN ISO 12958 ⁴	l/(s.m)
30 kPa	3.0 m	hEN ISO 12958 ⁴	l/(s.m)
50 kPa	5.0 m	hEN ISO 12958 ⁴	l/(s.m)
100 kPa	10.0 m	hEN ISO 12958 ⁴	l/(s.m)
200 kPa	Exceptional	hEN ISO 12958 ⁴	l/(s.m)
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)	1.65
100 kPa - podium roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
200 kPa - parking roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
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	l/(s.m)	-
200 kPa - parking roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
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	l/(s.m)	-
200 kPa - parking roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
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	l/(s.m)	-
200 kPa - parking roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
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)	2.67
100 kPa - podium roof deck	hEN ISO 12958 ⁴	l/(s.m)	-
200 kPa - parking roof deck	hEN ISO 12958 ⁴	l/(s.m)	-

¹ Performance expressed of the filter/geotextile only

² MD = Machine direction / CMD = Cross Machine Direction

³ 45 degrees to MD

⁴ hEN EN ISO 12958 tested hard/soft with 110 g/m² geotextile as filter layer

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 mechanical properties 15 % and in hydraulic properties of 20 % and in physical properties of 5 % are normal.

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