



Data sheet

DoP25086-003

ND Egg Crate 25086 - panels

| Material Properties | Standard | Unit | Performance | | |
|---|-----------------------|-------------------------------|-------------|-------------------|---------------------|
| Core | - | - | HIPS | | |
| Filter geotextile | - | - | - | | |
| Separation film | - | - | - | | |
| Separation geotextile | - | - | - | | |
| Mechanical Properties (mean values) | | | | | |
| Compressive strength | hEN EN ISO 25619-2 | kPa | 140 | | |
| Tensile strength ¹ (MD/CMD) ² | hEN EN ISO 10319 | kN/m | - | | |
| CBR puncture resistance ¹ | hEN EN ISO 12236 | kN | - | | |
| Dynamic performance (cone drop) | hEN EN ISO 13433 | mm | - | | |
| Physical Properties | | | | | |
| Construction height at 2 kPa | - | mm | 24,6 | | |
| Dimple height at 2 kPa | - | mm | 24,6 | | |
| Perforations per m ² | - | - | - | | |
| Diameter perforations | - | mm | - | | |
| Water reservoir dimples up | - | l/m ² | 5 | | |
| Water reservoir dimples down | - | l/m ² | 3,5 | | |
| Material dimensions (L x W) per roll | - | - | 1.2 x 2.4 | | |
| Mass per unit area | - | g | 912 | | |
| Surface area per roll | - | m ² | 2.88 | | |
| Roll weight | - | kg | 2.66 | | |
| Hydraulic Properties (mean values) | | | | | |
| Opening size O ₉₀ ¹ | hEN EN ISO 12956 | µm | - | | |
| Water permeability H ₅₀ ¹ | hEN EN ISO 11058 | mm/s | - | | |
| 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 EN ISO 12958 ⁴ | l/(s.m) | 8.09 | 12.98 |
| 30 kPa | 3.0 m | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 50 kPa | 5.0 m | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 100 kPa | 10.0 m | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa | Exceptional | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| Horizontal drainage / Roof | | | | | |
| Fall = 1 % - Exceptional case | | | | | |
| ≤ 10 kPa - extensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| ≤ 20 kPa - intensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | 0.40 | 0.94 |
| 100 kPa - podium roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa - parking roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| Fall = 1.5 % | | | | | |
| ≤ 10 kPa - extensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| ≤ 20 kPa - intensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 100 kPa - podium roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa - parking roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| Fall = 2 % | | | | | |
| ≤ 10 kPa - extensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| ≤ 20 kPa - intensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | 0.75 | 1.54 |
| 100 kPa - podium roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa - parking roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| Fall = 2.5 % | | | | | |
| ≤ 10 kPa - extensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| ≤ 20 kPa - intensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 100 kPa - podium roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa - parking roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| Fall = 5 % | | | | | |
| ≤ 10 kPa - extensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| ≤ 20 kPa - intensive green roof | | hEN EN ISO 12958 ⁴ | l/(s.m) | 1.41 | 2.62 |
| 100 kPa - podium roof deck | | hEN EN ISO 12958 ⁴ | l/(s.m) | - | - |
| 200 kPa - parking roof deck | | hEN EN 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 mecha 15 % and in hydraulic properties of 20 % and in physical properties of 2 % are normal.

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