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Rev. 1/2018

REFOSPORT 20 S

LABORATORY
INTERNAL TEST REPORT

Plate in agglomerate foam, drainage system, shock pad underlay 20 mm - Medium Density

Technical specifications

REFOSPORT 20 S is used for playgrounds, football fields, Rugby fields and green areas

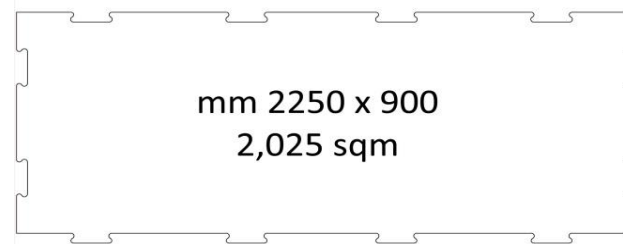


Measure drainage holes

REFO SPORT 20 S is supplied in plate and rolls

Measures each plate: **0,90 x 2,25 (puzzle form)**

Sqm each plate: **2,025 sqm**



| | | | | |
|-----------------------------------|--|-------|-------------------|----------|
| Thickness | | 20,00 | mm | ISO 1923 |
| Mass per Unit area m ² | | 2.97 | Kg/m ² | |
| Density | | 80.10 | Kg/m ³ | ISO 845 |
| Shock Absorption | | 64 | % | |

| | | | | |
|-----------------------------|----------------|--------|-----------|------------|
| Compression stress strenght | 10% | 40.33 | kPa | ISO 3386/1 |
| | 25% | 83.67 | kPa | ISO 3386/1 |
| | 50% | 237.67 | kPa | ISO 3386/1 |
| Tensile strenght | | 0.38 | Mpa | ISO 1798 |
| Resistance to tearing | | 238 | N | DIN 53 507 |
| Elongation at break | | 33.5 | % | ISO 1798 |
| Compression set | 25%, 30', 23°C | 8.78 | % | ISO 1856 |
| | 25%, 22h, 23°C | 2.83 | % | |
| Compression set | 50%, 30', 23°C | 19.98 | % | ISO 1856 |
| | 50%, 22h, 23°C | 6.97 | % | |
| Thermal Conducivity | | 0.0440 | W/mK | |
| | | 0.0378 | Kcal/mh°C | |
| Thermal Stability | | 105 | °C | ISO 2796 |
| Permeability of the product | | 36.000 | mm/h | |

The test results of this report relate only to the sample tested

N°: 2018/1

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operator E.L.

DURABILITY

REFO SPORT 20 S consists of thermal bonded (closed-celled) cross-linked Polyethene foam (from non-contaminated industrial waste) with a predicted durability (according ISO/TR 13434) for a minimum of 100 years but the normal warranty is tied to the use of the turf.
based on microbiological resistance (according EN 12225) - resistance to: weathering (according EN 12224) - oxidation (according EN 13438) - acids & bases (according EN 14030)

The performance characteristics of **REFO SPORT 20 S** are hardly effected by simulated (mechanical) wear.
based on stability after 65,000 Lisport cycli (when combined with a non-infill artificial grass)

The (dimensional) characteristics of **REFO SPORT 20 S** are hardly effected by simulated aging.
based on stability after hot water and hot air (according EN 13744 a nd EN 13817)

This specification is based on (independent) Laboratory measurements and the overall knowledge of APETEK (at the time of revision).
Additional information (e.g. additional characteristics, specif laboratory reports or statistical analysis) is available upon request.
APETEK reserves itself the right to change this specification and/or product (without notice)

GUARANTEE

All **APETEK Products** are guaranteed for **25 years in normal condition** (except specific products out of our official range)