



Herculan SR National tracks are eco-friendly, seamless and cushioned Spike Resistant surfaces with point elastic properties.

Herculan SR National tracks meet all the latest European Standards for track and field sports surfaces, the EN 14877:2006 and **Herculan SR National** meets all requirements set in the DIN 18035 part 6. The **Herculan SR National** system is listed as a certified and approved track surface in the Dutch Olympic Committee's Sports flooring list.

The **Herculan SR National** track is certified by the International Association of Athletic Federation [IAAF], as a surface suitable for all national and international athletic competitions.

The high performance, seamless surface of the **Herculan SR National** system is an in-situ applied rubber base layer covered with multiple layers of an elastomeric structural spray polyurethane wear layer. **Herculan SR National** tracks are water permeable, spike resistant, UV and all weather resistant. The **Herculan SR National** track system provides a durable track surface under all weather conditions. **Herculan SR National** is suitable for outdoor and indoor athletic facilities, multipurpose sports facilities and playgrounds.

The **Herculan SR National** track surface is easy to maintain and can be resurfaced quickly and economically when required.





Types of Sports Surface

All weather cushioned outdoor sports surface with point elastic and dimensionally stable properties.

Aim

Suitable for all running tracks and all outdoor sports, refer Herculan Systems Selection Chart. It has been tested to and conforms to the technical requirements for use in all national and international competitions. Herculan SR National is IAAF Certified.

Description of the Sports Surface

Water permeable and spike resistant. Structural sprayed elastomeric polyurethane layer on an in-situ installed polyurethane bonded rubber granulate sub-base layer.

HERCULAN SR NATIONAL SYSTEM PROPERTIES

Athlete Surface Interaction

System		Force Reduction [EN 14808 – DIN 18032-2]	Vertical Deformation [EN 14809 – DIN 18032-2]
Herculan SR National	0°C	35 %	1.4 mm
	+10°C	36 %	1.4 mm
	+20°C	37 %	1.5 mm
	+40°C	41 %	2.0 mm

System Properties of the Sports Surface

Water Permeability [EN 12616]	Permeable, 27240 mm/h
Sliding Coefficient [DIN 18035-6/TRRL], Dry	0.62
Sliding Coefficient [DIN 18035-6/TRRL], Wet	0.57
Slip Resistance [EN 13036-4], Dry	101
Slip Resistance [EN 13036-4], Wet	65
Thickness [EN 1969]	14 mm
Vertical Ball Behavior [EN 12235 – DIN 18032-2]	99 %
Compression Set [ASTM D-395-B]	1.9 %
Compression Strength [N/S1.1]	> 4 N/mm ² [> 4 MPa]
Resistance to Impact [EN 1517-1999]	> 12 Nm
Resistance against Static Load [24 hours]	20 kg/cm ²
Resistance to Indentation [EN 1516]	< 0.37 mm
Resistance to a Rolling Load [EN 1569:1999]	> 1500 N
Resistance to Fire [DIN 51960]	Not flammable – Class 1
Resistance to Fire [BS 476 Part 7:1997]	Not flammable – Class 3
Resistance to Fire [EN-ISO 11925:2002 & 9239-1:2002]	C _{FL} – S1
Resistance to Stubbed and Burning Cigarettes [EN 1399]	Resistant. No damage.
Spikes Resistance [DIN 18035-6]	Class 1
Spikes Resistance [EN 14810]	All criteria pass after spike stress
Tensile Strength [EN ISO 527-1, DIN 54455]	0.52 N/mm ² [0.52 MPa]
Elongation at Break [EN ISO 527-1, DIN 54455]	> 42 %
Resistance to Wear [EN-ISO 5470-1, ASTM C-501]	Taber H18 1 kg 1000 cycles 0.63 gm
Relative Abrasion	rA = 1.1
Light [Color] Fastness [ISO 105-A02, DIN 54004]	4 [Good]
Resistance to UV Light [EN 14836]	Excellent, Color change > 3 [EN ISO 20105-A02]
Performance after exposure to UV-Light – EN 14836	Passes all requirements in EN 14877
Environmental Compatibility [DIN V 18035-6 Table 6, Lines 1-13]	Passed

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