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<p>This standard has been drawn up and approved by Kiwa ISA Sport and SuperSub Sportbases B.V.</p> <p>Part 1 - Materials specifications Part 2 - Construction aspects</p> <p>Reference: SuperSub impermeable cellular concrete a lightly bound, foundation material consisting of fibre-reinforced cellular concrete</p>		

Part 1: Materials specifications

Characteristics

Structure

open

Testing method: MN/K5.1

Compressive strength

Static

Compressive strength (1 N/mm²)
following 3 weeks hardening

no breaks, distortion ≤ 2.0 mm

Dynamic

Compressive strength (0.5 N/mm², cyclical)
following 3 weeks hardening

no breaks, distortion ≤ 3.0 mm

Testing method: MN/S1.3

Specific mass

500 - 700 kg/m³

Testing method: EN 430

Dimensions


Construction standard 2:

layer thickness at least 100 mm (on an existing foundation)
at least 150 mm (on a sandy substructure)

Construction standard 3:

Class	Layer thickness	Foundation	Comment
0	In conformity with the calculation	In conformity with the calculation	
1	130 mm	Existing surface	
2	120 mm	Existing surface	
3	110 mm	Existing surface	Use an insulating shock pad
4	110 mm	Existing surface	Use an insulating shock pad
5	100 mm	Existing surface	Use an insulating shock pad

Testing method: MN/K1.1


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Conditions

Climatological influences

all characteristics must meet the standards

Testing method: MN/CO.1

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Part 2: Construction aspects

Characteristics

General

- the substructure for the cellular concrete must be fully load-bearing
- the cellular concrete must be laid consecutively, smoothly and, if desired, with dilation joints.
- there may not be any open seams or joints > 5 mm.
- the thickness at side of the construction must be at least 500 mm over a width of at least 500 mm
- if the cellular concrete is going to be drilled for things like posts, fencing and light towers, then the thickness must also be at least 500 mm.
- If no horizontal draining shock pad is used, then slots, with a dimension of 10*15 mm², must be fitted in the material with a distance of 100 mm c.t.c. The direction of the slots must be perpendicular to the field's crown.

Testing method: CN/C1.1

Flatness

- maximum distortions must be equal to the final permissible distortion
- sharp transitions (like sills) are not permitted

Testing method: EN 13036-7

Conditions

Climatological influences

all characteristics must meet the standards

Testing method: CN/CO.I