structure of stresan®-equestrian surfaces

outdoor arena

We can‘t emphasize often enough that you shouldn‘t begin „just like that“ with the construction of a equestrian surface! It is very important to clarify the following points in advance:

- A planning permission is necessary for the construction of indoor arenas and also outdoor arenas
- If you‘d like to use RC (recycling) material, a suitable approval must be obtained in advance by the lower water authority (UWB)
- The location should be carefully selected: An outdoor arena should be placed at the highest point of the area, so if it is raining no additional rainwater collects on the outdoor arena
- To guarantee the stability of the ground, a ground certificate must be obtained that states whether the substructure is firm enough and load-bearing

How much stresan®-riding sand is required for a tread layer?

We recommend a tread layer level of twelve centimeters for outdoor arenas. The formula to calculate the individually required sand quantity is as follows:

(length (m) x wide (m) x tread layer level (m)) x specific weight of sand (t/m³) = quantity (t)

Example

An ourdoor arena with the dimensions 20 m x 40 m:
(20 m x 40 m x 0,12 m) x 1,7 t/m³ = 163,2 t

Even if it is possible to build the equestrian surface by yourself, we highly recommend to get professional support of a riding arena constructor. This constructor does not only have the needed expertise, but also has the suitable devices such as a laser grader to insert the material in an optimum manner. With pleasure we give you suitable contact data.

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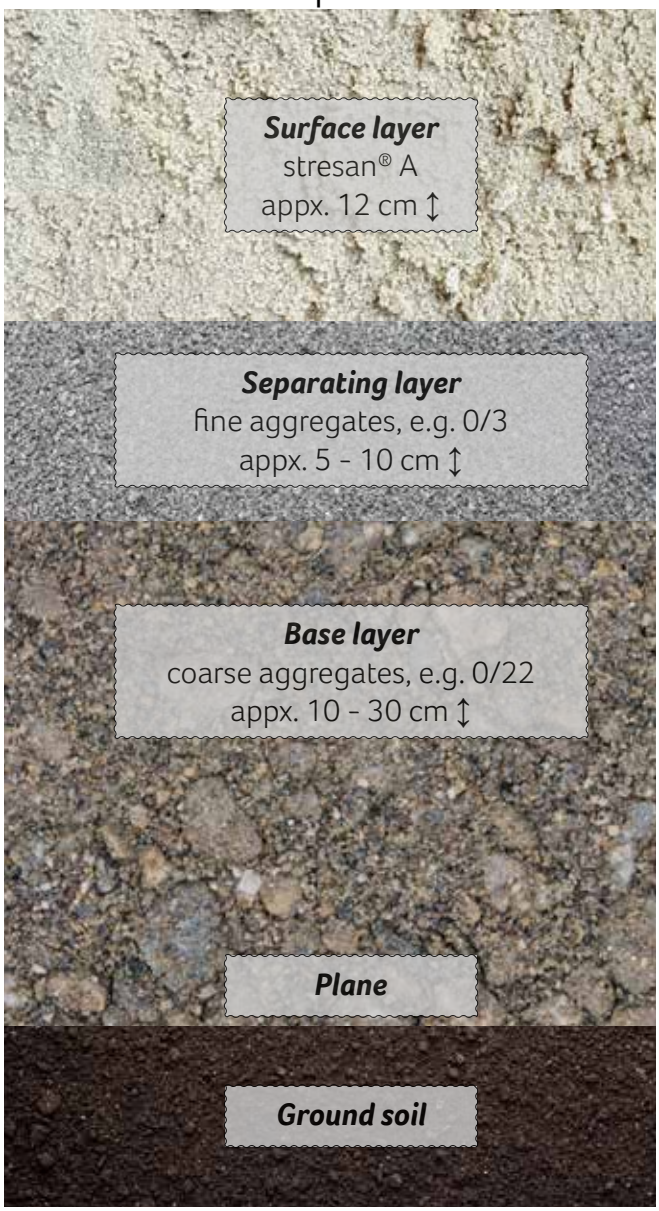
Exemplary substructure
outdoor riding arena

Surface drainage with a lateral slope of 1-2%



Vertical drainage via substructure

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STREMMER

structure of stresan®-equestrian surfaces

indoor arena

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- A planning permission is necessary for the construction of indoor arenas and also outdoor arenas
- If you‘d like to use RC (recycling) material, a suitable approval must be obtained in advance by the lower water authority (UWB)
- The location should be carefully selected: An outdoor arena should be placed at the highest point of the area, so if it is raining no additional rainwater collects on the outdoor arena
- To guarantee the stability of the ground, a ground certificate must be obtained that states whether the substructure is firm enough and load-bearing

How much stresan®-riding sand is required for a tread layer?

We recommend a tread layer level of ten centimeters for indoor arenas. The formula to calculate the individually required sand quantity is as follows:

(length (m) x wide (m) x tread layer level (m)) x specific weight of sand (t/m³) = quantity (t)

Example

An indoor arena with the masses 20 m x 60 m:
(20 m x 60 m x 0,10 m) x 1,7 t/m³ = 204 t

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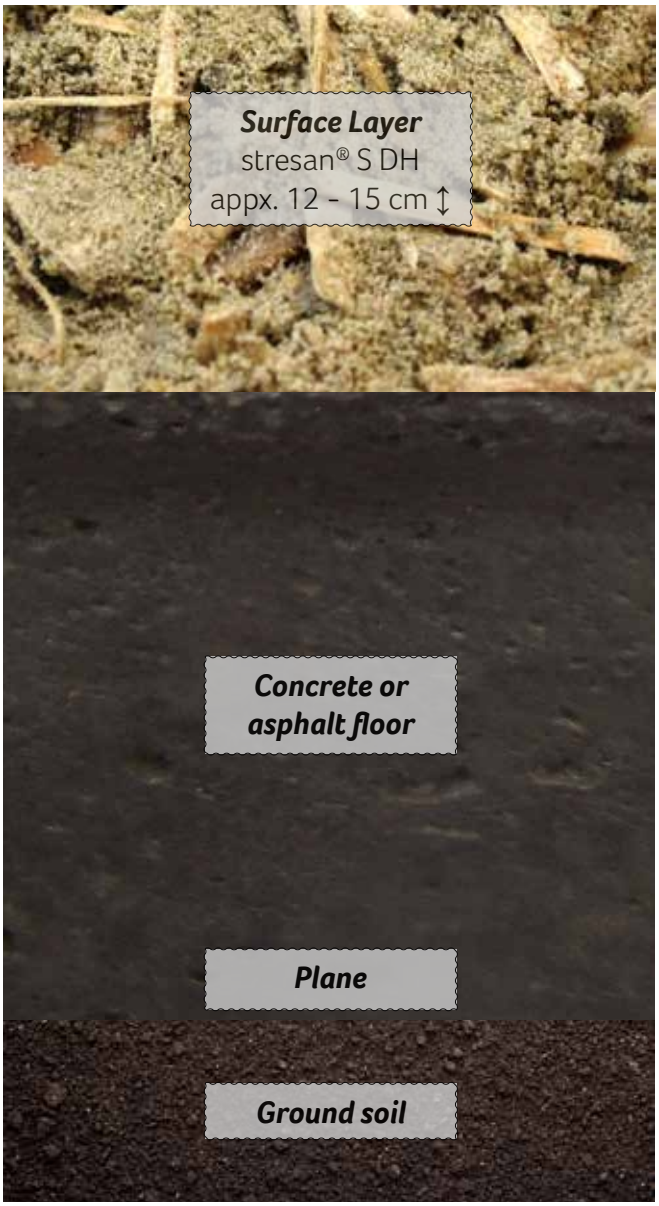
Exemplary substructure
outdoor riding arena

Footing made of pure sand with separating layer

Tread layer with screening on concrete floor



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