

## 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 <u>following points</u> 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  $(t/m^3)$  = quantity (t)

#### **Example**

An ourdoor arena with the dimensions  $20 \text{ m} \times 40 \text{ m}$ :  $(20 \text{ m} \times 40 \text{ m} \times 0.12 \text{ m}) \times 1.7 \text{ t/m}^3 = 163.2 \text{ t}$ 

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.







# Exemplary substructure outdoor riding arena

Surface drainage with a lateral slope of 1-2%







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### 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  $(t/m^3)$  = quantity (t)

#### **Example**

An indoor arena with the masses  $20 \text{ m} \times 60 \text{ m}$ :  $(20 \text{ m} \times 60 \text{ m} \times 0,10 \text{ m}) \times 1,7 \text{ t/m}^3 = 204 \text{ t}$ 

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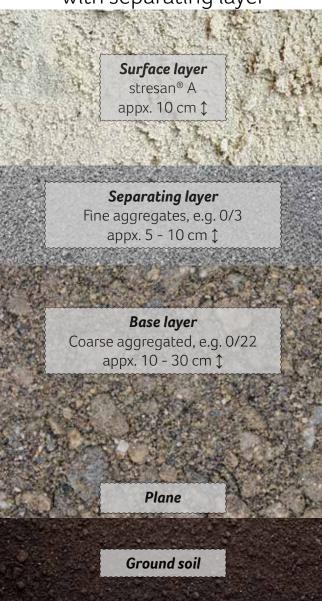




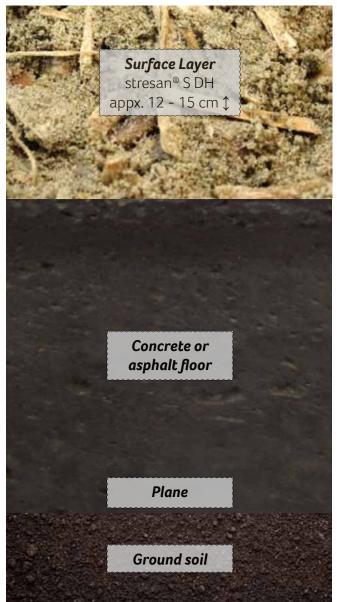


## Exemplary substructure indoor arena

Footing made of pure sand with separating layer



Tread layer with screening on concrete floor



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