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## h < 1000

**Totally hard surfaces or materials with very unlimited impact attenuating properties.**

Case by case risk assessment is needed including e.g. evaluation whether there is forced movement, what is the intended exercise and where will the product be installed.



Totally hard surfaces.  
Eg. concrete or asphalt.



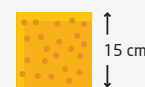
Materials with very limited impact attenuating properties.  
E.g. wood.

## h < 1200

**Materials with significant impact attenuating properties.**



Fine gravel 0-8 mm



Unsorted sand

## h < 1500

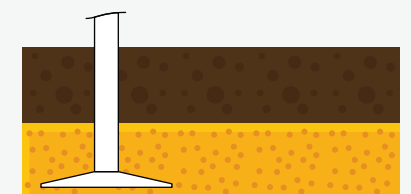


Lawn

## h < 3000

**Loose fill material.**

E.g.  
sand/gravel 0,25...8 mm D60/D10<3,0  
woodchips 5...30 mm  
bark 20...80 mm



<b>S</b>	<b>h</b>
30 cm	<2,0 m
40 cm	<3,0 m

**Synthetic materials**

<b>S</b>	<b>h</b>
40 mm ~>	1,2 ... 1,3 m
50 mm ~>	1,5 ... 1,7 m
60 mm ~>	1,8 ... 2,0 m
70 mm ~>	2,1 ... 2,5 m

Note. For accurate values, see manufacturer's instructions.

