

Landscape, Sport and Recreation Materials MACKA'S SOFT FALL SAND



**This Executive Summary is from the Playground Undersurfacing test
carried out to AS 4422:1996 by accessUTS**

The impact attenuation tests were conducted on a Playground Impact Attenuating Sand sample supplied by Macka's Sand & Soil Supplies according to AS/NZS 4422:1996. The sample was tested in a dry and a wet condition. The critical fall heights were calculated in accordance with AS/NZS 4422:1996. They are listed in Table 1.

Product	Condition	Critical Fall Height (m)
Macka's Playground Impact Attenuating Sand	Dry	2.1 m
	Wet	1.1 m

Table 1: Critical fall heights for sample tested

The sample was tested at a depth of 200 mm. The results of the testing of the sample according to AS/NZS 4422:1996 were used to calculate the installation depth. The material allowance was calculated using the results from the 1.1 m impact conditions.

Product		Dry Condition (Uncompacted)	Wet Condition (Uncompacted)
Macka's Playground Impact Attenuating Sand	Test Depth	200	200
	Material Allowance	90	70
	Minimum	290	270
	+20% for heavy traffic	350	320

Table 2: Material depth (mm) to be installed

The worst-case scenario is taken as the recommended installation depth for the sample. From Table 2 the dry condition represents the worst case scenario. In accordance with AS/NSZ 4422:1996 the minimum installation depth for this material is 290 mm for a height not exceeding 1.1 m. For heavy traffic areas an extra 20% is required which translates into an installation depth of 350 mm for a height not exceeding 1.1 m. **It is recommended that all product installation and maintenance information specify a minimum installation depth of 350 mm.**

NB: The information provided in this product guide should be used as a guide only. For further details or for design and application support, please contact us.

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