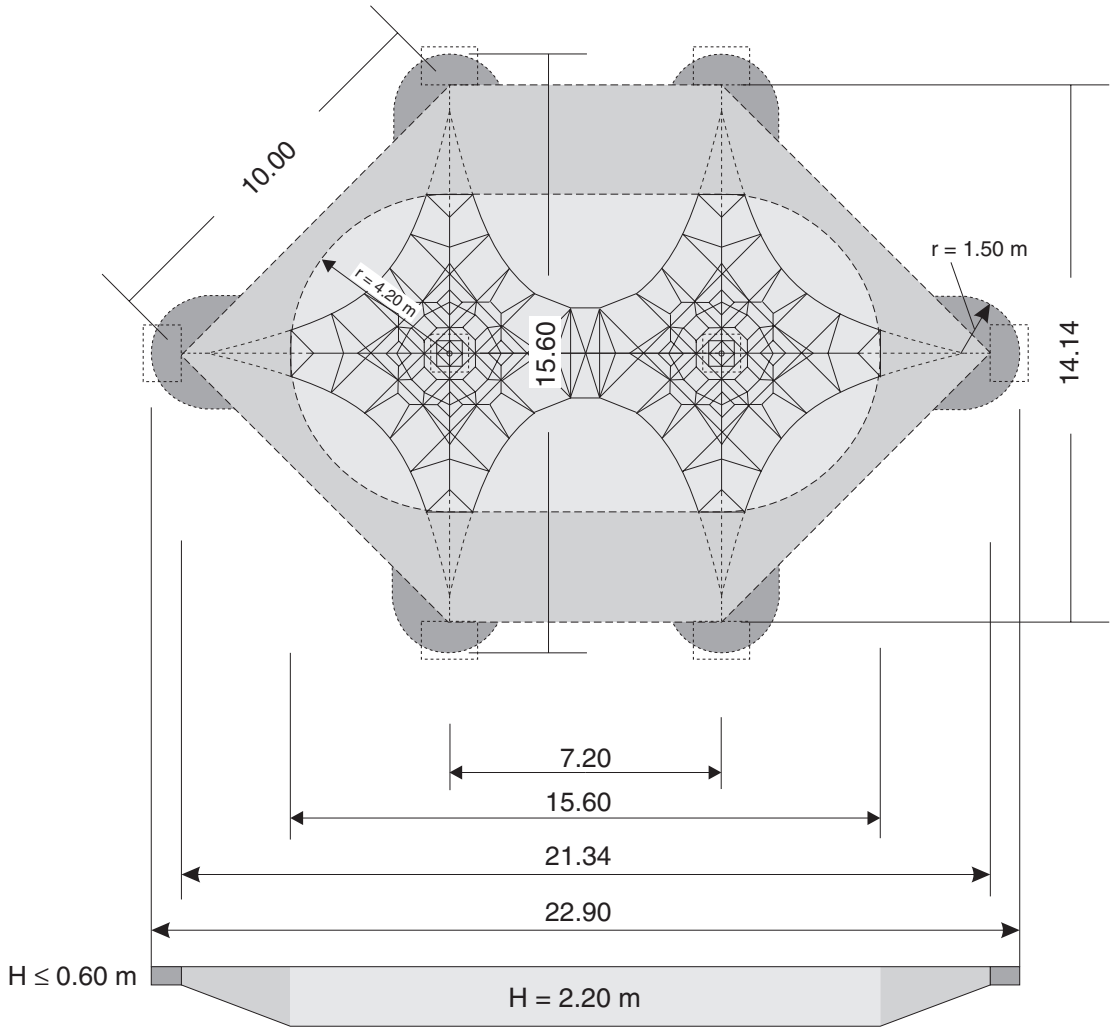
Small Two Mast Spacenet 3144/2

Impact area with free height of fall

Impact area (EN 1176-1)



free height of fall

scale 1 : 200

Table 4: Examples of commonly used impact attenuating materials, layer thicknesses and corresponding critical fall heights

Material [a]	Description	Minimum layer thickness [b] [mm]	Critical fall height [mm]
Turf/topsoil			≤ 1.000 [d]
Bark	grain size 20 to 80 mm	200	≤ 2.000
		300	≤ 3.000
Woodchip	grain size 5 to 30 mm	200	≤ 2.000
		300	≤ 3.000
Sand [c]	grain size 0.2 to 2 mm	200	≤ 2.000
		300	≤ 3.000
Gravel [c]	grain size 2 to 8 mm	200	≤ 2.000
		300	≤ 3.000
Other ground materials and other layer thicknesses	checked according to HIC (see EN 1177)		critical fall height as tested

[a] Ground materials prepared applicable for use in children's playgrounds

[b] **In the case of loose fill material, a minimum layer thickness of 100 mm must be added, in order to compensate for reduction of the surface as a result of play (see EN 1176-1:2008, clause 4.2.8.5.1)**

[c] Apart from silty or clay sections, grain size can be determined by a sieve test, as specified in EN 933-1

[d] See EN 1176-1:2008, note 1 in clause 4.2.8.5.2

The respective national legal regulations may be deviating.

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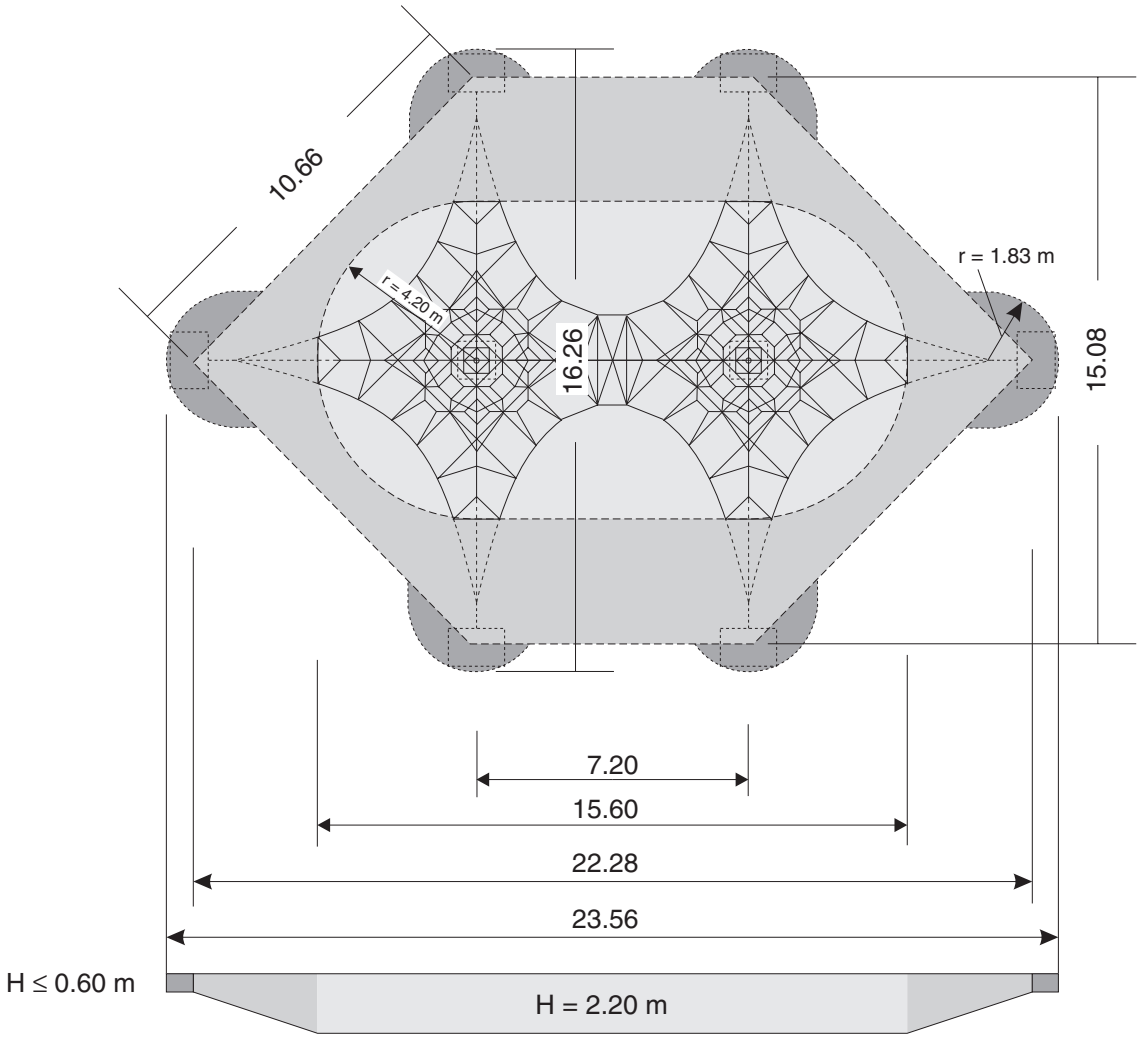
Impact area with free height of fall

Impact area (CAN/CSA-Z614-07)
(ASTM F1487-07)



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Critical heights of tested materials (CAN/CSA-Z614-07)

Table D.2: Loosefill protective surfacing material and critical height range (see clause D.2.)

Loosefill protective surfacing material	Recommended minimum depth of material (compacted)	Critical height
Wood/bark mulch	300 mm (11.81 in)	up to 3 m (118.11 in)
Engineered wood fibre	300 mm (11.81 in)	more than 3 m (118.11 in)
"Washed", round, pea gravel [1]	300 mm (11.81 in)	up to 2.5 m (98.43 in)
Specified sand [2]	300 mm (11.81 in)	more than 2.5 m (98.43 in)
Shredded tire crumb	200 mm (7.87 in)	more than 3 m (118.11 in)

[1] Washed, round pea-type gravel and sand should be clean to help avoid compaction.
[2] Specified sand should meet developed particle size analysis envelope test for determined impact-attenuation requirement results.

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