

Specification: EPDM

Wet Pour Safety Surfacing

HMS uses multi-component polyurethane and rubber composite which is mixed, poured, levelled, screed and then rolled to create a long-lasting surface that looks great.

EPDM Rubber

When used in the two layer system, the wearing coarse is laid at a depth of 15 – 30mm with rubber granules between 1 – 4mm that are available in a wide range of colours.

SBR Rubber

The base layer of the surface is typically 35 – 90mm depending on the fall height risk assessment.

Polyurethane Resin Binder

The polyurethane resins used for EPDM surfacing are single or two components dependent on the requirements of the scheme.

The curing time is between 2 – 24 hours and uses moisture as a catalyst to initiate the curing process, and in this case it uses water.

On top of that, this type of resin should only be laid in temperatures between 5 and 25°C.

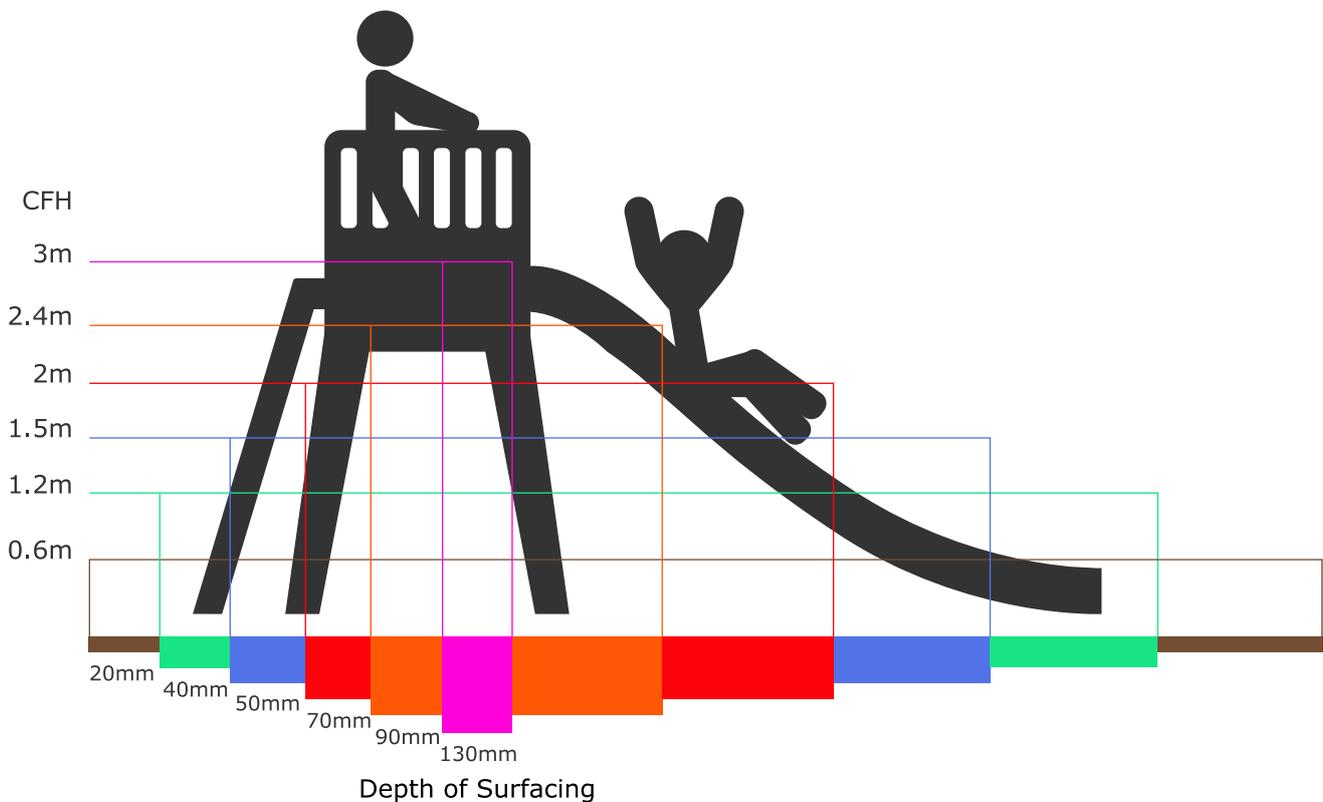
The depth of the surface is calculated according to the Free Fall Height (FFH) of any play equipment along with the surfaces Critical Fall Height (CFH). This is the height from which it is assessed that a surface will absorb the impact of a child's fall sufficiently to reduce serious head injury.

The maximum FFA should equal or not exceed the surface's CFH.

Stationary Equipment

For equipment on which a child stands, the FFH is calculated from the highest point on the equipment which is intended for play - usually the platform height.

For equipment from which a child hangs, the height of the hand support is used.



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Surfacing Area

Stationary Equipment

The extent of the surfacing required around the play equipment is dictated by the height of any potential fall.

For stationary equipment with a FFH of 1.5m or less, surfacing should extend at least 1.5m beyond the edge of the equipment.

To calculate the surfacing distance for equipment with a FFH of over 1.5m, subtract 1.5m from the FFH

and multiply the result by 0.667 before adding back the 1.5m.

Swings

The FFH is calculated from the centre of the stationary seat surface at 60 degrees.

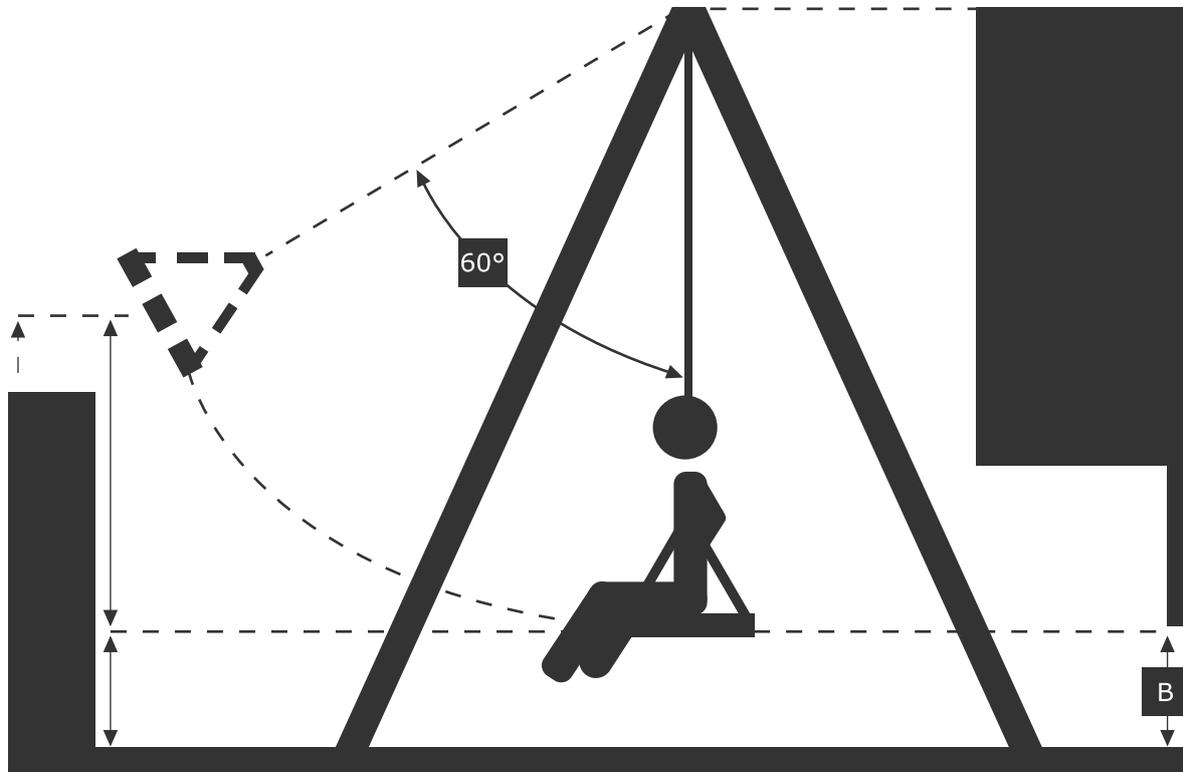
To work this out divide the length of the chain by 2 then add the distance from the seat to the ground. The image below demonstrates this.

The area of surfacing required for a swing is calculated as follows; to calculate the length of surfacing required to the front and back of the swing, multiply the length of the chain by 0.867 then add 1.15m.

The width of the surfacing required for seats no greater than 500mm in width is 1.75m (ie., 0.875m each way from the seat centre).

For swings with seats wider than 500mm the difference between the seat width and 500mm must be added to the 1.75m (50% to each side of the swing centre).

Please note that areas for two seats in one bay may overlap providing the distance between seats is 20% of the swing chain plus 500mm.





Subbase

EPDM wet pour safety surfacing can be laid onto a variety of sub-bases. The most common of these being; Type 1 MOT stone or open textured binder coarse tarmac. HMS can lay the surface onto other sub-bases, please contact us to discuss suitability.

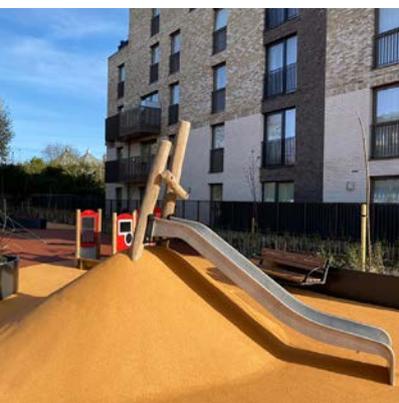
The sub-base can determine the depth of safety surface laid, for example the minimum depth of surface which can be laid onto a type 1 MOT stone sub-base is 40mm. We will be happy to advise you on any aspects of sub-base or edging detail required. Below are specifications for the most common forms of sub-base.

We wouldn't hesitate to recommend HMS

“We've worked with HMS Specialist Surfacing for many years and they have never let us down. Their communication exceeds expectations and all projects are finished to an excellent standard.”

Naomi Brown, Director,
S Brown Paving Ltd

HMS do not lay the subbase, but we will be happy to recommend contractors that do.



“We wouldn't use anyone else!”

CIK Construction



Get in touch

Visit www.hmslimited.co.uk for more information or call 01858 881111

HMS Specialist Surfacing

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Care is taken to ensure that all information provided is accurate and up to date; however, HMS accepts no responsibility for inaccuracies or changes to information.

