

IKO Permascreed

IKO Permascreed is an effective screeding solution for Flat Roofs, Walkways and Vehicle Decks. Suitable for new build and refurbishment projects. IKO Permascreed provides a speedy alternative to traditional sand and cement screeds.



	Product Code	Typical Thickness of Individual Layer*	Usage
Permascreed L (Light Duty) Block Hot Charge	44220000 5422000A	10-25mm	Roofs, Balconies, Walkways
Permascreed M (Medium Duty) Block Hot Charge	44200000 54200000	20-40mm	Roofs, Balconies, Walkways
Permascreed H (Heavy Duty) Block Hot Charge	44210000 54210000	35mm + (maximum single coat 60mm)	As above plus: Car Parks & HGV Service Decks

*IKO Permascreed can be installed in multiple layers as necessary to achieve the desired drainage falls or surface level

Description

IKO Permascreed is manufactured from selected bitumens, limestone filler and specially graded aggregates. It can be installed to create drainage falls, level out uneven substrates, and provide a stable base for the specified roof/deck waterproofing/surfacing system.

IKO Permascreed is designed for use on all flat roofs, walkways and balconies, car parks and HGV service decks and should be used in accordance with the recommendations given in the above table.

IKO Permascreed is suitable for use in cold roofs, insulated warm roofs, inverted insulated roofs, all green roofs, balcony/terrace applications walkways/footbridges, car parks & HGV service decks.

Features & Benefits

- Suitable for levelling uneven flat roofs to eliminate back falls & deflections
- Easily creates a wide range of drainage falls
- Can be walked on and waterproofed once cooled.
- Zero water content – no curing
- Compatible with a wide range of waterproofing systems.

Delivery and Site Handling

IKO Permascreed is normally supplied directly to site in purpose built hot charge transporters capable of holding up to 18 tonnes of material. Permascreed is also available in block form for re-melting on site.

NB: Permascreed H (Heavy Duty) blocks will require the site addition of 40-45% 10mm size coarse aggregate prior to installation.

Stability

IKO Permascreed will accept, without significant damage, the type of traffic and concentrated loads associated with the installation of a flat roof waterproofing system.

Vapour Resistivity

The vapour resistivity of **IKO Permascreed** is very high and can be assumed to be not less than 100,000 MN/g.

In warm roof systems, a minimum 13mm thick layer of **IKO Permascreed** laid on a **IKO Glass Fibre Tissue** (GFT) separating layer will act as an effective Air & Vapour Control Layer (AVCL).

Application

Decks to receive **IKO Permascreed** must be capable of supporting all static and imposed loads without undue deflection. Drainage should be designed in accordance with the requirements of BS EN 12056-3.

Drainage Falls

All flat roof surfaces (including gutter beds) should be designed with a fall of 1:40 to ensure finished drainage falls of 1:80 are achieved. This should take account of construction tolerances, permitted deviations and deflection under load, and, unless justified by more detailed structural analysis, to account for deflections/settlement. Where two falls intersect, a minimum finished fall of 1:80 along the mitre should be recommended. For vehicle deck applications a minimum finished fall 1:60 is recommended.

Certain third-party certified waterproofing and insulating systems are approved for use with zero falls but back falls are not acceptable and should be corrected. In order to ensure a finished surface with a zero fall, a design fall of 1:80 should be used and a detailed structural analysis should account for construction tolerances, settlement and for deflection under load.

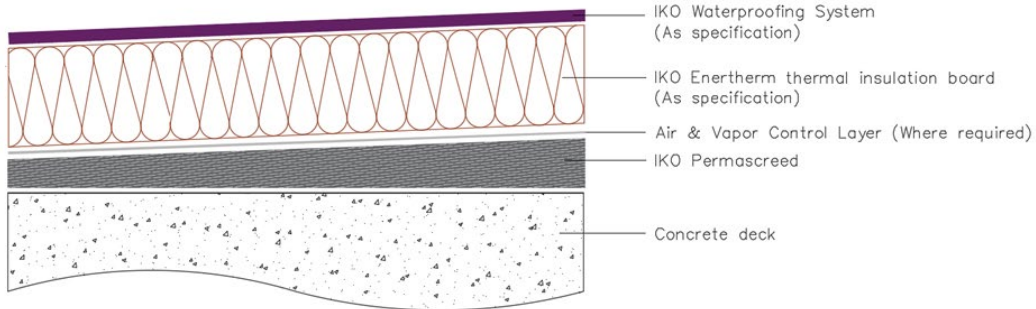
To prevent ponding around rainwater outlets, these should be recessed or fitted in sumps, where practical.

When creating drainage falls, tapered gauges should be used to ensure that the required drainage fall is correct. Where necessary, **IKO Permascreed** can be applied in multiple layers to achieve the required depth and fall.

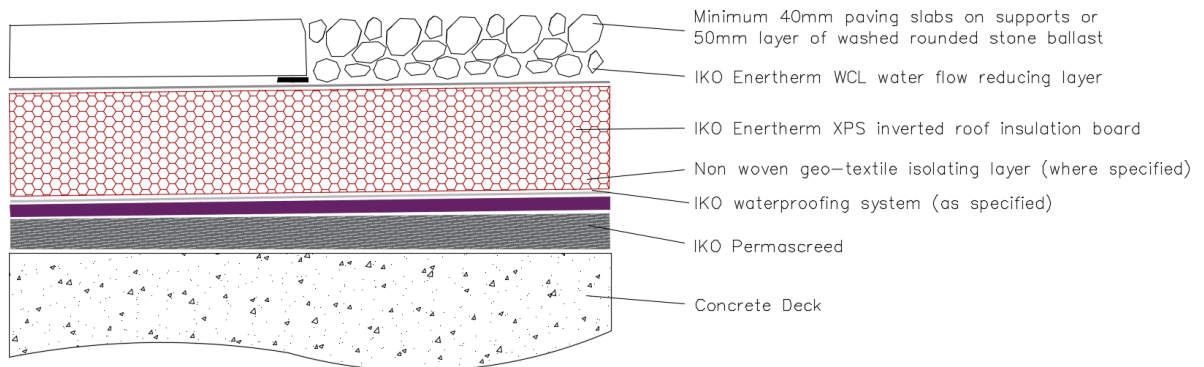
IKO Permascreed should be laid directly to the concrete/ sand & cement screed substrate wherever possible. This is particularly important when the levelling out an uneven substrate. The substrate needs to be swept clean and dry prior to installing **IKO Permascreed**. Priming of the substrate is not necessary. During the initial application of the hot **IKO Permascreed**, the heat causes moisture/ air in the substrate to expand rapidly. This often causes the formation of small “sinkers” in the finished surface as the vapour forces it's way up through the Permascreed. However, this will not have any detrimental effect on the performance of the Permascreed or it's suitability as a substrate to receive the waterproofing system. However, if excessive blowing occurs, then a **IKO Glass Fibre Tissue** (GFT) separating layer should be introduced beneath the **IKO Permascreed**.

Where **Permascreed** is used over timber/plywood decks, a separating layer of **IKO Black Sheathing Felt** will be required.

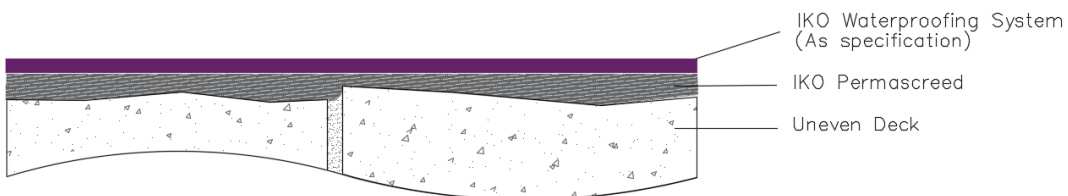
Typical Warm Roof



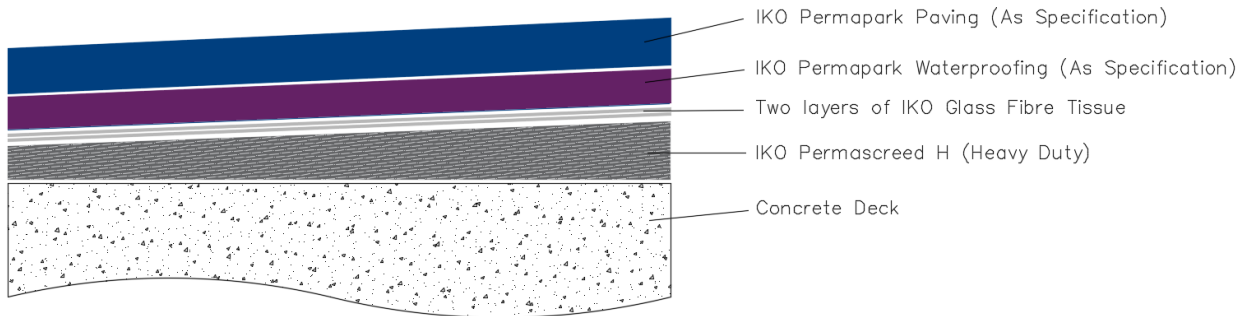
Typical Inverted Roof



Uneven Substrates



Typical Car Park / HGV Service Deck



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