



FIRE SAFETY

With XPS Inverted Roofs

As concerns are heightened regarding fire spread across the outside of structures, we confirm our Sundolitt XPS insulation meets the requirements of Approved Document B where it is installed within a ballasted inverted roof system over a fully supporting concrete deck.

Following the guidance below our XPS insulation may also be installed across the position of compartment walls where it is placed over a concrete structural deck.

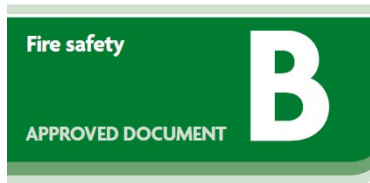
Compliance with Reducing Fire Risk

The current wording of Approved Document B Section B3 states that a 1500mm wide zone of the roof either side of the compartment wall should have a roof covering classified as $B_{ROOF}(t4)$ installed over a substrate or deck of a material rated Class A2-s3, d2 or better. Compliance with the general requirement is therefore achieved where a roof covering achieving $B_{ROOF}(t4)$ is installed over a concrete or metal deck.

$B_{ROOF}(t4)$ is achieved where our XPS is covered with a ballast of either 50mm gravel or 40mm cementitious paving slabs. This is in accordance with the EC Directive 89/106/EEC list of roof coverings deemed to fulfil all requirements for external fire performance "without the need for testing".

Inverted roof systems are commonly installed over a concrete deck to ensure adequate structural strength. Concrete is a Class A material, considered to provide "no contribution to fire" as listed in the European Commission Directive 94/611/EC. All appropriate firestopping should be included in the design at the roof/wall junction.

Latest Guidance on Approved Document B



We understand confusion has arisen due to disagreement on interpretation of the latest edition of Building Regulations Approved Document B.

Section B3 relating to the internal fire spread across junctions of compartment walls and roof has not changed, however, the interpretation of this section has altered due to heightened concerns in this area.

Whilst DLUHC (formerly MHCLG) has established a technical committee to clarify the requirements at this wall/roof junction we recognize the importance of providing reassurance of performance and ensuring a continued choice of roof construction for our customers.

Additional Assurance

Sundolitt in conjunction with the BRE are undertaking the following $B_{ROOF}(t4)$ certified tests for our XPS installed within the three main options for inverted roofs.

1. 50mm gravel ballast
2. 40mm cementitious paving slabs on spacer pads
3. Sedum - extensive green roof

Ballast finishes 1 and 2 are deemed to achieve $B_{ROOF}(t4)$ under EC Directive 89/106/EEC, however, we believe in providing further certified test results to allay concerns regarding the use of our insulation where fire may result in serious harm.

Technical Information

For more information about thermal performance, compressive strengths, installation and handling you can visit our website.



SCAN HERE
For Sundolitt XPS Insulation

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