

**Changes to legislation:** There are outstanding changes not yet made to Commission Decision of 25 May 2005 establishing the classes of external fire performance of roofs and roof coverings for certain construction products as provided for by Council Directive 89/106/EEC (notified under document number C(2005) 1501) (Text with EEA relevance) (2005/403/EC). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

## ANNEX

The table set out in this Annex lists construction products and/or materials which satisfy all the requirements for the performance characteristic external fire performance without need for testing.

TABLE

### Classes of external fire performance for plastisol coated steel roof sheets

Product	Class <sup>a</sup>
Plastisol coated steel roof sheets as specified below and when incorporated into a single layer or built-up roofing system as detailed below	B <sub>ROOF</sub> (t1) B <sub>ROOF</sub> (t2) B <sub>ROOF</sub> (t3)

Roofing sheets in accordance with EN 14782 and EN 14783, comprising profiled steel sheets, flat steel sheets or panels of coil coated galvanised or zinc-aluminium alloy coated steel of metal thickness  $\geq 0,40$  mm with an organic external (weather side) coating and, optionally, a reverse (internal) side organic coating. The external coating is of a liquid-applied Plastisol paint of maximum nominal dry film thickness 0,200 mm, a PCS of not greater than 8,0 MJ/m<sup>2</sup> and a maximum dry mass of 330 g/m<sup>2</sup>. The reverse side organic coating (if any) has a PCS of not greater than 4,0 MJ/m<sup>2</sup> and a maximum dry mass of 200 g/m<sup>2</sup>.

Single-layer roofing system comprising a single skin, non-insulated roofing on a supporting structure (continuous or discrete supporting rails) of reaction to fire classification A2-s1, d0 or better.

Built-up roofing system where the Plastisol coated steel roof sheets forms the external layer in a built-up assembly, where the supporting structure is of reaction to fire classification A2-s1, d0 or better and where immediately below the Plastisol coated steel sheet there is an insulating layer of reaction to fire classification A2-s1, d0 or better. This insulation shall be an un-faced mineral wool complying with EN 13162 and shall be glass fibre quilt of minimum density 10 kg/m<sup>3</sup> (maximum nominal resin content 5 % by weight) and thickness  $\geq 80$  mm, or stone-wool of minimum density 25 kg/m<sup>3</sup> (maximum nominal resin content 3,5 % by weight) and thickness  $\geq 80$  mm.

Joints where the top sheeting includes joints these shall be as follows:

- trapezoidal profiled sheet — side laps to incorporate an overlap of at least one rib and end laps to be a minimum of 100 mm;
- sinusoidal corrugated sheet — side laps to incorporate an overlap of at least 1,5 corrugations and end laps to be a minimum of 100 mm;
- flat sheets/panels — side laps and end laps to be a minimum of 100 mm;
- standing seam systems — side lap joints shall incorporate a vertical standing overlapped or capped seam sufficient to ensure continuous intimate contact between the sheets and to provide a watertight joint and where applicable end lap joints shall have a minimum 100 mm overlap.

Sealants shall be of a butyl-mastic or similar with a nominal density of 1 500 to 1 700 kg/m<sup>3</sup> applied as a continuous bead within the overlapped region of the joint at a rate of approximately 45 g/m length.

Fixings where the roof sheets are fixed to the supporting construction using metal mechanical fixings adequate to provide structural stability to the roof construction with

<sup>a</sup> External fire performance class as provided for in the table of the Annex to Decision 2001/671/EC.

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additional metal mechanical fixings used to ensure continuous intimate contact between the sheets and to provide watertight joints.

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**a** External fire performance class as provided for in the table of the Annex to Decision 2001/671/EC.

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**Changes and effects yet to be applied to :**

- Art. 3 excluded by [S.I. 2019/465 Sch. 3 para. 4](#)