

Commission Decision of 2 December 2010 establishing the classes of reaction-to-fire performance for certain construction products as regards steel sheets with polyester coating and with plastisol coating (notified under document C(2010) 389) (Text with EEA relevance) (2010/737/EU)

COMMISSION DECISION

of 2 December 2010

establishing the classes of reaction-to-fire performance for certain construction products as regards steel sheets with polyester coating and with plastisol coating

(notified under document C(2010) 389)

(Text with EEA relevance)

(2010/737/EU)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Directive 89/106/EEC of 21 December 1988, on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products<sup>(1)</sup>, and in particular Article 20(2)(a) thereof,

After consulting the Standing Committee on Construction,

Whereas:

- (1) Directive 89/106/EEC envisages that in order to take account of different levels of protection for the construction works at national, regional or local levels, it may be necessary to establish in the interpretative documents classes corresponding to the performance of products in respect of each essential requirement. Those documents have been published as the 'Communication of the Commission with regard to the interpretative documents of Directive 89/106/EEC<sup>(2)</sup>'.
- (2) With respect to the essential requirement of safety in the event of fire, interpretative document No 2 lists a number of interrelated measures which together define the fire safety strategy to be variously developed in the Member States.
- (3) Interpretative document No 2 identifies one of those measures as the limitation of the generation and spread of fire and smoke within a given area by limiting the potential of construction products to contribute to the full development of a fire.
- (4) The level of that limitation may be expressed only in terms of the different levels of reaction-to-fire performance of the products in their end-use application.
- (5) By way of harmonised solution, a system of classes was adopted in Commission Decision 2000/147/EC of 8 February 2000 implementing Council Directive 89/106/

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**Changes to legislation:** There are outstanding changes not yet made to Commission Decision of 2 December 2010 establishing the classes of reaction-to-fire performance for certain construction products as regards steel sheets with polyester coating and with plastisol coating (notified under document C(2010) 389) (Text with EEA relevance) (2010/737/EU). 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

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EEC as regards the classification of the reaction-to-fire performance of construction products<sup>(3)</sup>.

- (6) In the case of steel sheets with polyester coating and with plastisol coating it is necessary to use the classification established in Decision 2000/147/EC.
- (7) The reaction-to-fire performance of many construction products and/or materials, within the classification provided for in Decision 2000/147/EC, is well established and sufficiently well known to fire regulators in Member States that they do not require testing for this particular performance characteristic,

HAS ADOPTED THIS DECISION:

*Article 1*

The construction products and/or materials which satisfy all the requirements of the performance characteristic 'reaction-to-fire' without need for further testing are set out in the Annex.

*Article 2*

The specific classes to be applied to different construction products and/or materials, within the reaction-to-fire classification adopted in Decision 2000/147/EC, are set out in the Annex to this Decision.

*Article 3*

Products shall be considered in relation to their end-use application, where relevant.

*Article 4*

This Decision is addressed to the Member States.

Done at Brussels, 2 December 2010.

*For the Commission*

Antonio TAJANI

*Vice-President*

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## ANNEX

The tables set out in this Annex, list construction products and/or materials which satisfy all of the requirements for the performance characteristic ‘reaction-to-fire’ without need for testing.

TABLE 1

### Classes of reaction to fire performance for steel sheets with polyester coating used as single skin (without insulation behind)

Product	Nominal thickness ‘t’ of metallic coated steel sheet(mm)	Profile	Class <sup>a</sup>
Metallic coated steel sheet, profiled or flat, of nominal thickness t (mm) and coated on the surface exposed to the fire with a polyester coating of maximum nominal thickness 25 µm, according to the relevant part of EN 14782 and EN 10169, if the coating has a mass of no more than 70 g/m <sup>2</sup> and a PCS of no more than 1,0 MJ/m <sup>2</sup> . The steel sheet surface not exposed to the fire may have an organic coating, provided that this coating has a thickness of no more than 15 µm and a PCS of no more than 0,7 MJ/m <sup>2</sup> .	$0,40 \leq t \leq 1,50$	Flat or profiled <sup>b</sup>	A1

**a** Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

**b** The profiled (corrugated) surface area shall not be more than twice as much as the overall (coverage) area of the product.

Symbol used: PCS = gross calorific potential.

TABLE 2

### Classes of reaction to fire performance for steel sheets with plastisol coating

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Product <sup>a</sup>	Nominal thickness 't' of metallic coated steel sheet(mm)	Assembly detail	Class <sup>b</sup>
<p>Metallic coated steel sheet, profiled or flat, of nominal thickness t (mm) and coated on the surface exposed to the fire with a plastisol coating of maximum nominal thickness 200 µm and having a coating mass ≤ 300 g/m<sup>2</sup> and a PCS ≤ 7,0 MJ/m<sup>2</sup>. The steel sheet surface not exposed to the fire may have an organic coating, provided that this coating has a thickness ≤ 15 µm and a PCS ≤ 0,7 MJ/m<sup>2</sup>.</p>	<p>0,55 ≤ t ≤ 1,00</p>	<p>Flat or profiled product used as a single skin (without insulation behind) or backed by mineral wool as part of a built up assembly (which may be a double skin). If the product is profiled, the profiled (corrugated) surface area shall be no more than twice as much as the overall (coverage) area of the product. The mineral wool shall be of at least class A2-s1,d0. The mineral wool shall be of thickness at least 100 mm, unless the material (if any) immediately behind the mineral wool — including any vapour barrier — is of at least class A2-s1,d0. The supporting structure shall be of at least class A2-s1,d0.</p>	<p>C-s3,d0</p>

**a** Tolerances on nominal thickness shall conform to the relevant standards as referenced in EN 14782 and EN 14783.

**b** Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

Symbol used: PCS = gross calorific potential.

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- (1) [OJ L 40, 11.2.1989, p. 12.](#)
- (2) [OJ C 62, 28.2.1994, p. 1.](#)
- (3) [OJ L 50, 23.2.2000, p. 14.](#)

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

- Art. 4 excluded by [S.I. 2019/465 Sch. 3 para. 5](#)