Table 1 — Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 <sup>a</sup>	Δ <i>T</i> ≤ 30 °C; and	_
l		<i>Δm</i> ≤ 50 %; and	
	and	$t_{\rm f}$ = 0 (i.e. no sustained flaming)	
	EN ISO 1716	PCS ≤ 2,0 MJ/kg <sup>a</sup> and	-
		PCS ≤ 2,0 MJ/kg b c and	İ
	J	PCS ≤ 1,4 MJ/m <sup>2 o</sup> and	
		PCS ≤ 2,0 MJ/kg <sup>e</sup>	
A2	EN ISO 1182 a	Δ <i>T</i> ≤ 50 °C; and	_
		<i>Δm</i> ≤ 50 %; and	
	or	<i>t</i> <sub>f</sub> ≤ 20 s	
İ	EN ISO 1716	PCS ≤ 3,0 MJ/kg <sup>a</sup> and	-
		PCS ≤ 4,0 MJ/m <sup>2 b</sup> and	
	and	$PCS \le 4.0 \text{ MJ/m}^2$ and	
		PCS ≤ 3,0 MJ/kg <sup>e</sup>	
	EN 13823	FIGRA ≤ 120 W/s and	Smoke production and
		LFS < edge of specimen and	Flaming droplets/particles <sup>9</sup>
		<i>THR</i> <sub>600s</sub> ≤ 7,5 MJ	
В	EN 13823	FIGRA ≤ 120 W/s and	Smoke production <sup>1</sup> and
		LFS < edge of specimen and	Flaming droplets/particles <sup>9</sup>
	and	<i>THR</i> <sub>600s</sub> ≤ 7,5 MJ	
	EN ISO 11925-2 ':	$F_{\rm s} \le 150$ mm within 60 s	
	Exposure = 30 s		
С	EN 13823	FIGRA ≤ 250 W/s and	Smoke production and
	_	LFS < edge of specimen and	Flaming droplets/particles <sup>9</sup>
	and	<i>THR</i> <sub>600s</sub> ≤ 15 MJ	
	EN ISO 11925-2 ':	$F_s \le 150$ mm within 60 s	
	Exposure = 30 s		
D	EN 13823	FIGRA ≤ 750 W/s	Smoke production * and
	and		Flaming droplets/particles <sup>9</sup>
	EN ISO 11925-2 ':	$F_s \le 150 \text{ mm within } 60 \text{ s}$	
	Exposure = 30 s		
E	EN ISO 11925-2 ':	F <sub>s</sub> ≤ 150 mm within 20 s	Flaming droplets/particles <sup>n</sup>
	Exposure = 15 s		
F	No performance determined		

For homogeneous products and substantial components of non-homogeneous products.

introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

<sup>&</sup>lt;sup>b</sup> For any external non-substantial component of non-homogeneous products.

<sup>&</sup>lt;sup>c</sup> Alternatively, any external non-substantial component having a  $PCS \le 2.0 \text{ MJ/m}^2$ , provided that the product satisfies the following criteria of EN 13823:  $FIGRA \le 20 \text{ W/s}$ , and LFS < edge of specimen, and  $THR_{600s} \le 4.0 \text{ MJ}$ , and s1, and d0. d For any internal non-substantial component of non-homogeneous products.

For the product as a whole.

<sup>&</sup>lt;sup>1</sup> In the last phase of the development of the test procedure, modifications of the smoke measurement system have been

 $s1 = SMOGRA \le 30 \text{m}^2/\text{s}^2$  and  $TSP_{600s} \le 50 \text{m}^2$ ;  $s2 = SMOGRA \le 180 \text{m}^2/\text{s}^2$  and  $TSP_{600s} \le 200 \text{m}^2$ ; s3 = not s1 or s2 d0 = No flaming droplets/ particles in EN 13823 within 600 s;

du = No flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

<sup>h</sup> Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.