COMMISSION DECISION
of 26 August 2003
(notified under document number C(2003) 2986)
(Text with EEA relevance)
(2003/632/EC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,


Whereas:

(1) Commission Decision 2000/147/EC (3) established a classification system for the reaction-to-fire performance of construction products.

(2) Following a review of certain product families, separate classes of reaction-to-fire performance should be established for linear pipe thermal insulation products.

(3) Decision 2000/147/EC should therefore be amended accordingly.

(4) The measures provided for in this Decision are in accordance with the opinion of the Standing Committee on Construction,

HAS ADOPTED THIS DECISION:

Article 1

The Annex to Decision 2000/147/EC is amended in accordance with the Annex to this Decision.

Article 2

This Decision is addressed to the Member States.

Done at Brussels, 26 August 2003.

For the Commission
Erkki LIIKANEN
Member of the Commission

In the Annex to Decision 2000/147/EC the following table is added:

**Table 3**

CLASSES OF REACTION-TO-FIRE PERFORMANCE FOR LINEAR PIPE THERMAL INSULATION PRODUCTS

<table>
<thead>
<tr>
<th>Class</th>
<th>Test method(s)</th>
<th>Classification criteria</th>
<th>Additional classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1L</td>
<td>EN ISO 1182 (1); and</td>
<td>$\Delta T \leq 30 , ^\circ C$; and $\Delta m \leq 50 %$; and $t_f = 0$ (i.e. no sustained flaming)</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>EN ISO 1716</td>
<td>PCS $\leq 2.0 , MJ.kg^{-1}$ (1); and PCS $\leq 2.0 , MJ.kg^{-1}$ (2); and PCS $\leq 2.0 , MJ.m^{-2}$ (3); and PCS $\leq 1.4 , MJ.m^{-2}$ (4)</td>
<td>—</td>
</tr>
<tr>
<td>A2L</td>
<td>EN ISO 1182 (1); or</td>
<td>$\Delta T \leq 50 , ^\circ C$; and $\Delta m \leq 50 %$; and $t_f \leq 20s$</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>EN ISO 1716; and</td>
<td>PCS $\leq 3.0 , MJ.kg^{-1}$ (1); and PCS $\leq 4.0 , MJ.m^{-2}$ (2); and PCS $\leq 4.0 , MJ.m^{-2}$ (3); and PCS $\leq 3.0 , MJ.kg^{-1}$ (4)</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>EN 13823 (SBI)</td>
<td>FIGRA $\leq 270 , W.s^{-1}$; and LFS $&lt;$ edge of specimen; and THR$^{600s} \leq 7.5 , MJ$</td>
<td>Smoke production (1); and Flaming droplets/particles (2)</td>
</tr>
<tr>
<td>B1</td>
<td>EN 13823 (SBI); and</td>
<td>FIGRA $\leq 270 , W.s^{-1}$; and LFS $&lt;$ edge of specimen; and THR$^{600s} \leq 7.5 , MJ$</td>
<td>Smoke production (1); and Flaming droplets/particles (2)</td>
</tr>
<tr>
<td></td>
<td>EN ISO 11925-2 (7); Exposure = 30s</td>
<td>Fs $\leq 150\text{mm}$ within 60s</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>EN 13823 (SBI); and</td>
<td>FIGRA $\leq 460 , W.s^{-1}$; and LFS $&lt;$ edge of specimen; and THR$^{600s} \leq 15 , MJ$</td>
<td>Smoke production (1); and Flaming droplets/particles (2)</td>
</tr>
<tr>
<td></td>
<td>EN ISO 11925-2 (7); Exposure = 30s</td>
<td>Fs $\leq 150\text{mm}$ within 60s</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>EN 13823 (SBI); and</td>
<td>FIGRA $\leq 2100 , W.s^{-1}$ THR$^{600s} \leq 100 , MJ$</td>
<td>Smoke production (1); and Flaming droplets/particles (2)</td>
</tr>
<tr>
<td></td>
<td>EN ISO 11925-2 (7); Exposure = 30s</td>
<td>Fs $\leq 150\text{mm}$ within 60s</td>
<td></td>
</tr>
<tr>
<td>E1</td>
<td>EN ISO 11925-2(8); Exposure = 15s</td>
<td>Fs $\leq 150\text{mm}$ within 20s</td>
<td>Flaming droplets/particles (1)</td>
</tr>
<tr>
<td>F1</td>
<td>No performance determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) For homogeneous products and substantial components of non-homogeneous products.
(2) For any external non-substantial component of non-homogeneous products.
(3) For the product as a whole.
(4) For any internal non-substantial component of non-homogeneous products.
(5) For the product as a whole.
(6) $s1 = $SMOGRA $\leq 105 \, m^2.s^{-2}$ and $\text{TP}_{600} \leq 250 \, m^2$; $s2 = $SMOGRA $\leq 580 \, m^2.s^{-2}$ and $\text{TP}_{600} \leq 1600 \, m^2$; $s3 = $not $s1$ or $s2$.
(7) $d0 = $No flaming droplets/particles in EN13823 (SBI) within 600s; $d1 = $No flaming droplets/particles persisting longer than 10s in EN13823 (SBI) within 600s; $d2 = $not $d0$ or $d1$; ignition of the paper in EN ISO 11925-2 results in a d2 classification.
(8) Pass = no ignition of the paper (no classification); fail = ignition of the paper (d2 classification).
(9) Under conditions of surface flame attack and, if appropriate to end-use application of product, edge flame attack.