Classification report: Durability of reaction to fire - Performance class for fire-retardant treated spruce - Teknos FR Facade

Product

Fire-retardant treated (FRT) wood of spruce, with thickness 21 mm, surface treated with treatment Teknos FR Façade and supplied by Teknos Norge A/S, Norway.

Product specification

According to the client:

- Spruce panel, painted with primer 350 g/m² (wet) Teknosafe 2407.
- The panel is delivered overlaid with topcoat 150 g/m² (wet) waterborne acrylic industrial system (Nordic Eko 3330-03).

Requirements

The following requirement criteria given in Nordtest Method NT Fire 054 have to be fulfilled:

<table>
<thead>
<tr>
<th>Reaction to fire class, initial</th>
<th>Hygroscopic properties</th>
<th>Reaction to fire performance after weather exposure</th>
</tr>
</thead>
</table>
| Relevant and recognised reaction to fire class | - moisture content < 30 %  
- no visible salt at surface | Maintained reaction to fire performance |

Evaluation documents

- Reaction to fire class, initial: SP report PX05884-01 and PX05884-01A.
- Hygroscopic properties: SP report PX05884A.
- Reaction to fire performance, after weather exposure: SP report PX05884B and PX05884C.
Product performance

<table>
<thead>
<tr>
<th></th>
<th>Spruce panel, untreated</th>
<th>FRT spruce panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction to fire performance, initial</td>
<td>-</td>
<td>European fire class: B-s1, d0</td>
</tr>
<tr>
<td>Hygroscopic properties according to NT Build 504</td>
<td>Moisture content: 19 %</td>
<td>Moisture content: 18 %</td>
</tr>
<tr>
<td></td>
<td>Salt at surface: No</td>
<td></td>
</tr>
<tr>
<td>Reaction to fire performance after weather exposure according to NT Fire 053 Method B</td>
<td>-</td>
<td>Reaction to fire performance maintained: Yes</td>
</tr>
</tbody>
</table>

Durability of Reaction to Fire performance (DRF) Class

Teknos FR Façade according to the product specification above fulfils the requirements for DRF Class INT – for interior applications.

Teknos FR Façade according to the product specification above fulfils the requirements for DRF Class EXT – for exterior applications.

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