

classification report

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2007

Notified Body No:

0833

Product Names:

Alignment

Report No:

167017

Issue No:

1

Prepared for:

Bonar Floors Limited
High Holborn Road
Ripley
Derbyshire
DE5 3NT

Date:

8th October 2007

1. Introduction

This classification report defines the classification assigned to "Alignment" a loop pile tufted carpet tile, in accordance with the procedures given in EN 13501-1:2007

2. Details of classified product

2.1 General

The product, "Alignment" a loop pile tufted carpet tile, is defined as being suitable for floor covering applications.

2.2 Product description

The product, "Alignment" a loop pile tufted carpet tile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

| | | | |
|-----------------------------------|---|--|----------------------|
| Product configuration | | Carpet tile Adhesive Substrate | |
| Thickness of composite | | 13.49mm (Determined by Bodycote warringtonfire) | |
| Weight per unit area of composite | | 16.86kg/m ² (Determined by Bodycote warringtonfire) | |
| Carpet tile | General description | Loop pile tufted carpet tile | |
| | Product reference of carpet tile | "Alignment" | |
| | Name of manufacturer of carpet tile | Bonar Floors Limited | |
| | Overall thickness of carpet tile | 7.3mm | |
| | Overall weight per unit area of carpet tile | 4345 g/m ² | |
| | Colour reference of carpet tile | Blue (determined by Bodycote warringtonfire) | |
| | Pattern reference of carpet tile | See 'Note 1' below | |
| | Pile | Product reference | See 'Note 2' below |
| | | Generic type | Nylon |
| | | Name of manufacturer | Invista |
| | | Pile height above the backing | 4.5mm |
| | | Weight per unit area | 730 g/m ² |
| | | Flame retardant details | See 'Note 3' below |
| | Backing | Trade name / product reference | See 'Note 2' below |
| | | Generic type | Spun bond nylon |
| | | Name of manufacturer | Colbond |
| | | Thickness | 0.1mm |
| | | Weight per unit area | 120 g/m ² |
| | Back Coating | Flame retardant details | See 'Note 3' below |
| | | Trade name / product reference | See 'Note 2' below |
| Generic type | | Modified Bitumen | |
| Name of manufacturer | | Nynas | |
| | Thickness | 2.5mm | |

| | | |
|--|--------------------------------|---|
| Back coating applied to reverse face | Weight per unit area | 2595 g/m ² |
| | Flame retardant details | See 'Note 3' below |
| | Trade name / product reference | Bonar Floors internal reference "6715" |
| | Generic type | Latex (Bonar Floors internal reference "6715") The sponsor did not provide any further details relating to the generic form. |
| | Name of manufacturer | ILC |
| | Thickness | 0.2mm |
| | Weight per unit area | 900 g/m ² |
| | Flame retardant details | See 'Note 3' below |
| Adhesive (carpet tile to substrate) | Product reference | F Ball & Co.'s "Styccobond F41" - Surface Tackifier |
| | Generic type | Solvent free acrylic polymer emulsion adhesive |
| | Name of manufacturer | F Ball & Co. Limited |
| | Application Rate | Approximately 7m ² per litre |
| | Application Method | Brush |
| Substrate | Product reference | "NT D4 604" |
| | Generic type | Fibre cement board |
| | Name of supplier | Scheerders van de Kerkhove (SVK) |
| | Thickness | 6mm |
| | Density | 1800kg/m ³ |
| Brief description of manufacturing process utilised in the production of the carpet tile | | See 'Note' 1 |

NOTE 1: The sponsor was unwilling to provide this information.

NOTE 2: The sponsor confirmed that there is no specific trade name or product reference associated with this component.

NOTE 3: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

| Name of Laboratory | Name of sponsor | Test reports/extended application report Nos. | Test method / extended application rules & date |
|-------------------------|----------------------|---|---|
| Bodycote warringtonfire | Bonar Floors Limited | WF 166932 | EN ISO 11925-2 |
| Bodycote warringtonfire | Bonar Floors Limited | WF 166931 | EN ISO 9239-1 |

3.2 Test results

| Test method & test number | Parameter | No. tests | Results | |
|---|----------------------------|-----------|---------------------------------|----------------------------|
| | | | Continuous parameter - mean (m) | Compliance with parameters |
| EN ISO 9239-1 | Critical flux | 3 | 8.4 | Compliant |
| | Smoke | | 329 | Compliant |
| EN ISO 11925-2 (15s exposure – surface of decorative face) | F _s | 6 | 30 | Compliant |
| | Flaming droplets/particles | | None | Compliant |
| EN ISO 11925-2 (15s exposure – edge of decorative face) | F _s | 6 | 40 | Compliant |
| | Flaming droplets/particles | | None | Compliant |

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2007

4.2 Classification

The product, "Alignment" a loop pile tufted carpet tile, in relation to its reaction to fire behaviour is classified:

B_{FL}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

| Fire Behaviour | | Smoke Production | |
|-----------------------|---|------------------|----------|
| B_{FL} | - | s | 1 |

i.e. **B_{FL} – s1**

Reaction to fire classification: B_{FL} – s1

4.3 Field of application

This classification is valid for the following end use applications:

- i) Flooring applications, used over any substrate with a density equal to or greater than 1800Kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{FL} or better.
- ii) Installed directly to the substrate utilising 'Balls Styccobond F41' adhesive, applied at a nominal rate of 7m²/litre

This classification is also valid for the following product parameters:

| | |
|------------------------------------|-----------------------|
| Floorcovering thickness | No variation allowed |
| Floorcovering weight per unit area | No variation allowed |
| Colour/Pattern | Any variation allowed |
| Floorcovering composition | No variation allowed |
| Floorcovering construction | No variation allowed |

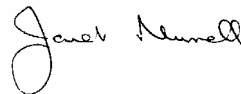
SIGNED



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APPROVED



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on behalf of:

Bodycote warringtonfire

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