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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

"Contour"

Report No:

WF 344887

Issue No:

1

Prepared for:

Forbo Flooring UK Limited
Unit 92
Seedlee Road
Walton Summit
Preston
PR5 8AE

Date:

27th October 2014



1. Introduction

This classification report defines the classification assigned to "Contour", a tufted bitumen backed carpet tile, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Contour", a tufted bitumen backed carpet tile, is defined as being suitable for floorcovering applications.

2.2 Product description

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

| | | | |
|----------------------|--------------------------|---|-------------------------|
| General description | | Tufted bitumen backed carpet tile which was tested adhered to a fibre cement board substrate utilising "Eurocol" adhesive | |
| Thickness | | 14.91mm (determined by Exova Warringtonfire) | |
| Weight per unit area | | 19.46kg/m ² (determined by Exova Warringtonfire) | |
| Carpet | Product reference | "Contour" | |
| | Name of manufacturer | Forbo Flooring (UK) Ltd | |
| | Thickness | 6.00mm | |
| | Weight per unit area | 4130g/m ² | |
| | Carpet tile construction | Multi loop tufted bitumen tile | |
| | Pile | Product reference | "Yarn" |
| | | Generic type | Polyamide nylon 6 |
| | | Name of manufacturer | Universal |
| | | Pile height above the backing | 3.1mm |
| | | Pile weight above the backing | 300g/m ² |
| | | Weight per unit area | 615g/m ² |
| | | Flame retardant details | See Note 1 Below |
| | Latex tuft lock | Product reference | "Latex" |
| | | Generic type | Antistatic latex |
| | | Name of manufacturer | ILC |
| | | Thickness | 0.5mm |
| | | Weight per unit area | 800g/m ² |
| | | Flame retardant details | See Note 1 Below |
| | Primary backing | Product reference | "SM/TM" |
| | | Generic type | Spunbond nylon |
| Name of manufacturer | | Bonar | |
| Thickness | | 0.2mm | |
| Weight per unit area | | 120g/m ² | |
| | Flame retardant details | See Note 1 Below | |

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| | | | |
|--|-------------------------|--|--|
| Carpet tile continued... | Bitumix | Product reference | "Bitumix" |
| | | Generic type | Composite of PMB Cariphate + Limestone |
| | | Name of manufacturer | Shell/Longcliffe |
| | | Thickness | 2.0mm |
| | | Weight per unit area | 2500g/m ² |
| | | Flame retardant details | See Note 1 Below |
| | Secondary backing | Product reference | "Johns Manville" |
| | | Generic type | 100% polyester |
| | | Name of manufacturer | Johns Manville |
| | | Thickness | 0.2mm |
| | | Weight per unit area | 95g/m ² |
| | | Flame retardant details | See Note 1 Below |
| | Adhesive | Product reference | "Eurocol" |
| | | Generic type | Release adhesive |
| | | Name of manufacturer | Forbo |
| | | Thickness | 0.02mm |
| | | Application rate | 5g/m ² |
| | | Application method | See Note 2 Below |
| | | Curing process | Air |
| | Flame retardant details | See Note 1 Below | |
| | Substrate | Trade name | "NT D4 604" |
| Generic type | | Fibre cement board | |
| Supplier | | Scheerders van de Kerkhove (SVK) | |
| Thickness | | 8mm | |
| Density | | 1900 ± 200 kg/m ³ | |
| Brief description of manufacturing process | | Tufting, latexing, laminating, cutting | |

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 2: The sponsor was unwilling to provide this information.

3. Test reports & test results in support of classification.

3.1 Test reports.

| Name of Laboratory | Name of sponsor | Test reports/extended application report Nos. | Test method / extended application rules & date |
|----------------------|---------------------------|---|---|
| Exova warringtonfire | Forbo Flooring UK Limited | WF 344686 | EN ISO 11925-2 |
| Exova warringtonfire | Forbo Flooring UK Limited | WF 344685 | 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 | 8.8 | Compliant |
| | | Smoke | | 65.38 | Compliant |
| EN ISO 11925-2 | (15s exposure – surface of decorative face) | F _s | 6 | Nil | Compliant |
| | | Flaming droplets/ particles | | None | Compliant |
| | (15s exposure – edge of decorative face) | F _s | 6 | 33.3 | 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+A1:2009.

4.2 Classification

The product, "Contour", a tufted bitumen backed 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) Floorcovering applications applied over any substrate with a minimum density of 1800kg/m³, having a minimum thickness of 8mm and a fire performance of A2_{FL} or better.
- ii) Installed utilising “Eurocol” adhesive.

This classification is also valid for the following product parameters:

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

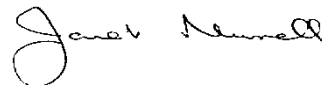
SIGNED



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Matthew Dale
Certification Engineer
Technical Department

APPROVED



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Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warringtonfire**

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