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**Report**

**Project number:** 89208753  
**Report number:** 89208753.01br

**Date**  
16/10/2015

**Received:**  
A heterogeneous PVC floor covering, marked as: “Allura Flex 0.55”;  
TÜV-reference: MT15-79291.01

**Project number**  
89208753

**Report number**  
89208753.01br

**Sampling procedure:**  
The samples are selected by the applicant. The test house has had no influence on the sampling procedure.

**Phone number client**  
+31 (0) 524 59 68 68

The samples have been received on 08/10/2015.

**Fax number client**  
+31 (0) 524 59 68 88

**Order:**  
Classification of burning behavior according to EN 13501-1:2007+ A1:2009.

**Article**  
Allura Flex 0.55

Test methods: Ignitability of products subjected to direct impingement of flame (ISO 11925-2:2010/C1:2011) and determination of the burning behavior using a radiant heat source (ISO 9239-1:2010)

**Appendix**  
I : Flooring Radiant Panel Single  
Specimen Report – 8 pages

**Results:**  
See page three and four.

**Appendix:**  
See page five up to and including twelve.

TRN applies General Terms & Conditions which are filed at the office of the Clerk for civil affairs at the Court in Zutphen (the Netherlands) under number 35/2010, dated November 17th 2010.

## PRODUCT IDENTIFICATION

Applicant : Forbo Novilon B.V.\*  
Name : Allura Flex 0.55\*  
Type of product : Heterogeneous PVC floor covering\*  
Overall thickness (mm) : 4.00\*  
Thickness of wear layer (mm) : 0.55\*  
Total mass per unit area (gr/m<sup>2</sup>) : 5200\*  
*\* Applicant's declaration*

Date  
16/10/2015

Project number  
89208753

Report number  
89208753.01br

Article  
Allura Flex 0.55

Page  
2/12

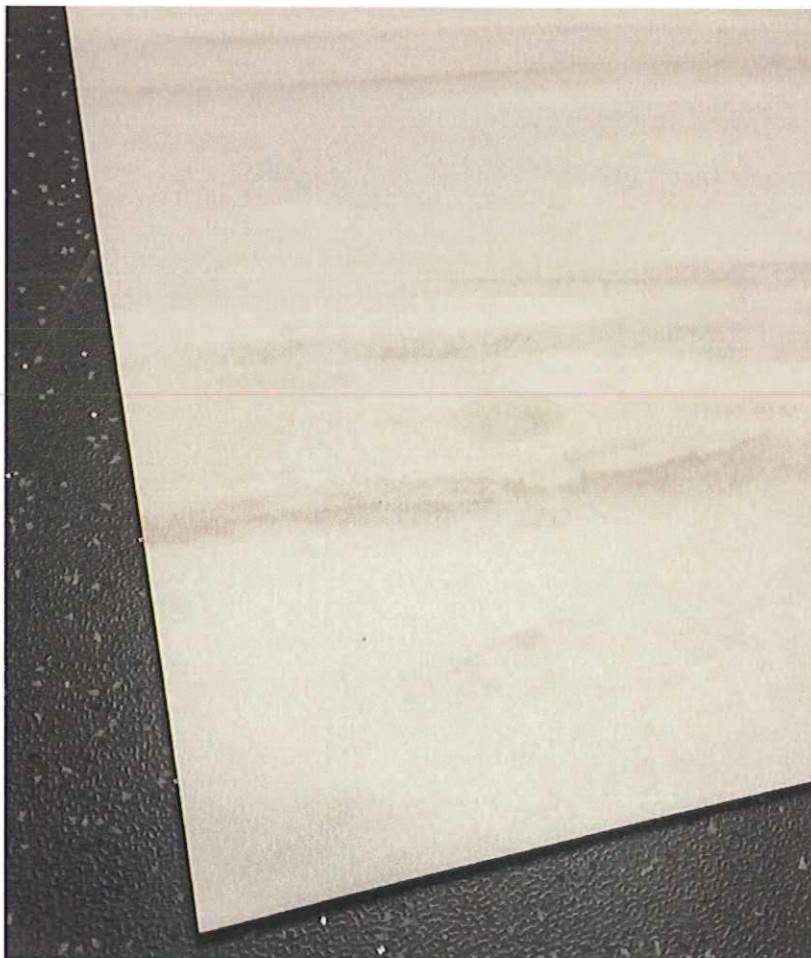


Figure 1. Picture of the received sample

Date  
16/10/2015

Project number  
89208753

Report number  
89208753.01br

Article  
Allura Flex 0.55

Page  
3/12

## TEST RESULTS

### *Ignitability of products subjected to direct impingement of flame*

Method EN ISO 11925-2 :2010/C1:2011

Date of testing : 13/10/2015  
 Conditioning time, climate :  $\geq 3$  days,  $23 \pm 2$  °C and  $50 \pm 5$  %  
 Description of substrate : Fibre cement board,  $8 \pm 2$  mm,  $1800 \pm 200$  kg/m<sup>3</sup>  
 conforming to EN 13238.  
 Flame application : Surface.  
 Flame application time : 15 seconds.

Orientation:	Length			Width		
Total burning time <sup>1</sup>	15	15	15	15	15	15
Flame tip reaches 150 mm (s)	No	No	No	No	No	No
Extent of damaged area, length (mm)	55	55	59	56	54	57
Extent of damaged area, width (mm)	13	12	13	14	15	14
Material melts (yes/no)	Yes	Yes	Yes	Yes	Yes	Yes
Shrinks away <sup>2</sup> (yes/no)	No	No	No	No	No	No
Glowing <sup>3</sup> (sec)	No	No	No	No	No	No
Flaming debris (yes/no)	No	No	No	No	No	No
Ignition of filter paper (yes/no)	No	No	No	No	No	No

1 Inclusive a flame application time of 15 or 30 seconds with surface or edge impingement

2 Shrinks away from flame without being ignited

3 The time at which it occurs and its duration

### *Determination of the burning behavior using a radiant heat source*

Method EN ISO 9239-1:2010

Date of testing : 13/10/2015  
 Conditioning time, climate :  $\geq 7$  days,  $23 \pm 2$  °C and  $50 \pm 5$  %  
 Description of substrate : Fibre cement board,  $8 \pm 2$  mm,  $1800 \pm 200$  kg/m<sup>3</sup>  
 conforming to EN 13238.  
 Sampling procedure : By contractor.  
 Description of cleaning used : None.  
 Fixing method : None, sample is tested loose laid on the substrate.

Test specimen, orientation	Flame spread (cm)	CRF (kW/m <sup>2</sup> )	Peak light attenuation (%)	Smoke production (%.min)
1, Length	20.0	9.1	68.7	191
2, Width	27.0	7.8	67.8	246
3, Width	20.0	9.1	66.0	172
4, Width	20.0	9.1	60.8	186
<b>Mean, Width</b>	<b>22.3</b>	<b>8.7</b>	<b>64.9</b>	<b>201</b>

Specimen 1, 2, 3 and 4: Flashing, transitory- or sustained flaming are observed.

Specimen 1, 2, 3 and 4: Extinguished naturally before the end of the test duration

Date  
16/10/2015

Project number  
89208753

Report number  
89208753.01br

Article  
Allura Flex 0.55

Page  
4/12

## CONCLUSION

According to EN 13501-1:2007+ A1:2009 the tested sample of the aforementioned quality "Allura Flex 0.55", in relation to its reaction to fire behavior is classified: **B<sub>n</sub>**. The additional classification in relation to smoke production is: **s1**.

The aforementioned quality meets the requirement of reaction to fire classification:  
**B<sub>n</sub> – s1**

The classification is valid for the following end use applications:

- End use substrates of classes A1 and A2-s1,d0 , for example fibre cement board.
- Any way of fixation, glued down or loose laid.

### Statements:

The test results only relate to the behaviour of the test specimens of the examined product under the particular conditions of the test in laboratory conditions; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. The method might not be suitable if the product is exposed to much larger flames or heat radiant sources.

The validity of this report will expire directly after alterations or modifications of the examined product (combination)(s) and/or the criteria. This report shall not be reproduced, except in full, without the written approval of the testing laboratory.

This document does not represent type approval or certification of the product.

Author:

Mr. J. de Wolff



Review:

Mr. R. Boerboom



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