

# 1<sup>ST</sup> ADDITIONAL TEST REPORT NR. 15236

As a basis for a general report for the building and housing inspection

Valid until 15/02/2017

## Sponsor

Reprolux Screens GmbH & Co. KG  
An der Eiche 4  
33175 Bad Lippspringe  
Germany

Date of order: 07/09/2011  
Date of sampling: 10/2011  
Arrival of the samples: 18/10/2011  
Date of test : 24/10/2011

## Order

"Brandschacht"-test (Building material class B1) according to DIN 4102 - Part 1 (May 1998)

**Material and Commercial name**  
PVC Translucent HD – rear projection

**Regulations concerning the test report**  
DIN 4102 - Part 1 (May 1998)

## Result of the tests

The material has met the demands for non-readily ignitable building materials.



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Project Assistant

Ghent,

21 MAART 2013



ir. K. CATRY  
Project Leader

The results of the tests apply only on the materials mentioned in this report

This report contains 8 pages including 3 annexes.

DIN 4102 teil 16 WG 1E\*

The present report constitutes a first addition to Test Report Nr 15236 dated 15/02/2012. It has been drafted in accordance with the regulations of "EN ISO/IEC 17025: 2005/AC: 2006 "Application Note : clause 5.10 [5.10/4] – Issue 01 - 2008/04/16 – amendment of test reports : clients changing product / company names (II) – for commercial reasons". The product **Translucent HD – rear projection** has not been retested. Present additional report does not contain any technical modifications to the original test report.

Both the original and the new denomination of the product and of the company entrusted with marketing the product will be documented and entered in the laboratory's archives. This report may be used only literally and completely for publications. - For publications of certain texts, in which this report is mentioned, our permission must be obtained in advance.

## 1. IDENTIFICATION OF THE PRODUCT

Commercial name: " Translucent HD – rear projection "

Description of the material: The product is a supple PVC (Polyvinylchloride) made fire-resistant in the mass. Colour transparent grey 20023/20057.

Description of the material		
	Nominal values (*)	Measured values (**)
Thickness (mm)	0,3	0,3
Surface mass (g/m <sup>2</sup> )	390	387

(\*) based on the information of the sponsor.

(\*\*) values verified by the laboratory.

## 2. TEST RESULTS

### 2.1. "Brandschacht"-Test according to DIN 4102 Part 16

Result of the „Brandschacht“-test (part 1)			
Sample:	Measured values for the 3 samples		
	1	2	3
1 <u>Number of sample-classification</u> according to DIN 4102 Teil 15 Table 1	1	1	1
2 <u>Maximum height of flame</u> from the bottom of the sample cm	80	80	90
3 at time (1) min : s	00:30	00:30	00:30
4 <u>Melting through/ Burning through</u> at time (1) min : s	00:03	00:03	00:03
5 <u>Observations on the backside of the sample</u> Flames/glowing at time (1) min : s	-	-	-
6 Colouring at time (1) min : s	-	-	-
7 <u>Flaming droplets</u> Start at (1) min : s	00:25	00:20	00:20
8 Dimension : Single falling droplets	yes	yes	yes
9 Continuous falling droplets	-	-	-
10 <u>Falling of burning particles</u> Start at (1) min : s	00:25	00:20	00:20
11 Dimension : Single falling of burning particles	yes	yes	yes
12 Continuous falling of burning particles	-	-	-
13 Afterburning on the floor (Max) min : s	00:03	00:03	00:03
14 <u>Diminishing of the burner flame due to falling material</u> at time (1) min : s	00:25 (*)	00:20 (**)	00:20 (***)
15 <u>Early termination of test</u> Stop of flaming of the sample (1) min : s	10:00	10:00	10:00
16 Time of termination (1) min : s	10:00	10:00	10:00

- (1) Time- indication from the start of the test  
 (\*) about 25 % of the area of the burner till 10:00  
 (\*\*) about 40 % of the area of the burner till 10:00  
 (\*\*\*) about 20 % of the area of the burner till 10:00

Result of the „Brandschacht“-test (part 2)						
Sample:	Measured values for the 3 samples					
	1		2		3	
<u>Afterburning after the end of the test</u>						
17 Duration min : s	-		-		-	
18 Number of samples	-		-		-	
19 Front side of the sample	-		-		-	
20 Back side of the sample	-		-		-	
21 Length of the flames cm	-		-		-	
<u>Afterglowing after the end of the test</u>						
22 Duration min : s	-		-		-	
23 Number of Samples Place of occurring:	-		-		-	
24 Top half of the sample	-		-		-	
25 Bottom half of the sample	-		-		-	
26 Front side of the sample	-		-		-	
27 Back side of the sample	-		-		-	
<u>Smoke attenuation</u>						
28 < 400 % x min	123,20		129,74		137,55	
29 > 400 % x min	-		-		-	
30 Graph in Annex Nr.	1		2		3	
<u>Lengths at the end of the test</u>						
31 Separate values cm	48 30	44 35	18 55	29 53	25 22	22 20
32 Average of the separate measurements cm	39,25		38,75		22,25	
<u>Smoke gas temperature</u>						
33 Max of the average values °C	118		120,78		127,41	
34 at time (1) min:s	9:57		9:57		00:30	
35 Graph in Annex Nr.	1		2		3	
36 <u>Remarks</u>						

(1) Time- indication from the start of the test

2.2. "Kleinbrenner" – Test for B2-Classification (DIN 4102 Part 1) (Edge exposure of the test material)

Test Nr.	1	2	3	4	5
Ignition (s)	1	1	1	1	1
Reaching the test-mark (s)	No	No	No	No	No
Self-extinction (s)	15	19	15	15	15
Extinguished after (s)	-	-	-	-	-
Maximum Flame height within the first 20s (cm) reached after (s)	5 10	4 12	5 8	8 5	6 5
Smoke development	Moderate	Moderate	Moderate	Moderate	Moderate
Time of flaming droplets (s)	No	No	No	No	No

### 3. Assessment

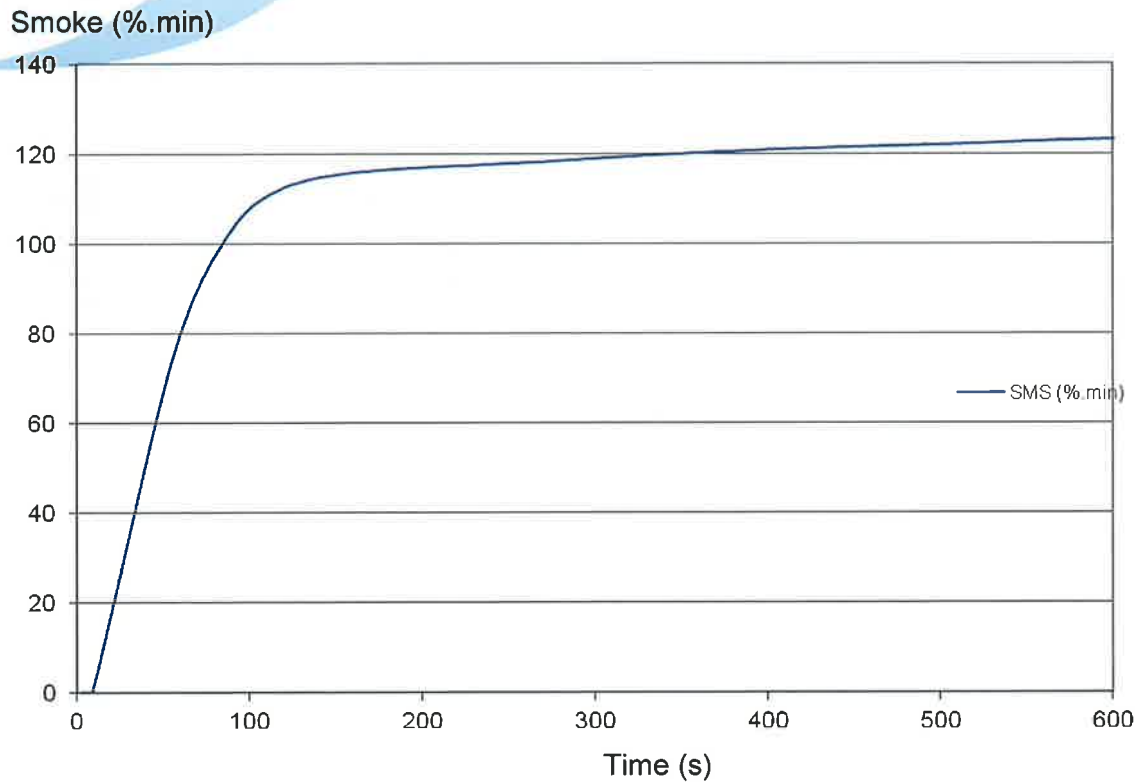
The building material, described on page 2, has complied with the requirements for non-readily ignitable building materials (schwerentflammbare Baustoffe) Class B1 according to the standard DIN 4102-1 (Edition May 1998) paragraph 6.1.2.2 and 6.2.2

### 4. Special remark

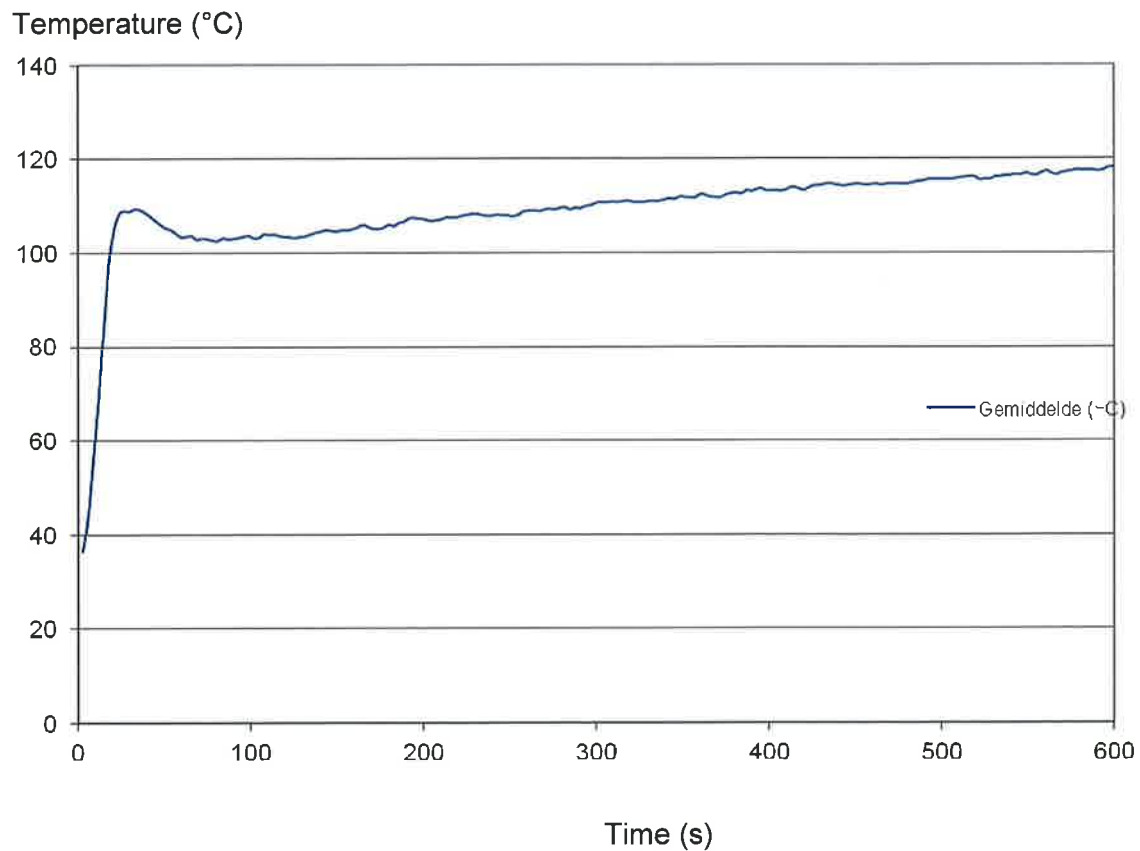
4.1 The results of this fire test are valid only for the building product as described on page 2. In connection with other building materials its fire behaviour can be influenced unfavourably. Therefore its fire behaviour in connection with other building materials should be proven separately according to the standard DIN 4102-1.

4.2 This test report does not replace the compulsory general approval of the building inspection. It serves as a basis for the prescribed use approval.

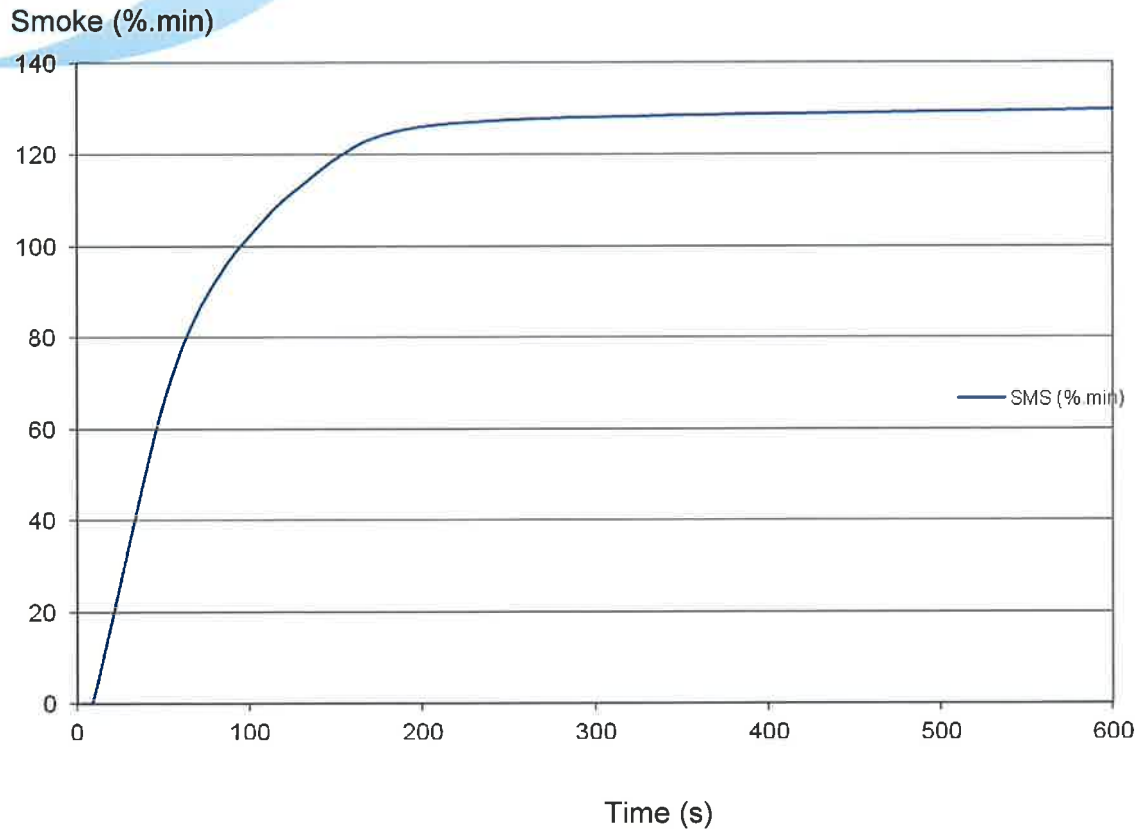
**Graph of Smoke Attenuation for Sample 1**



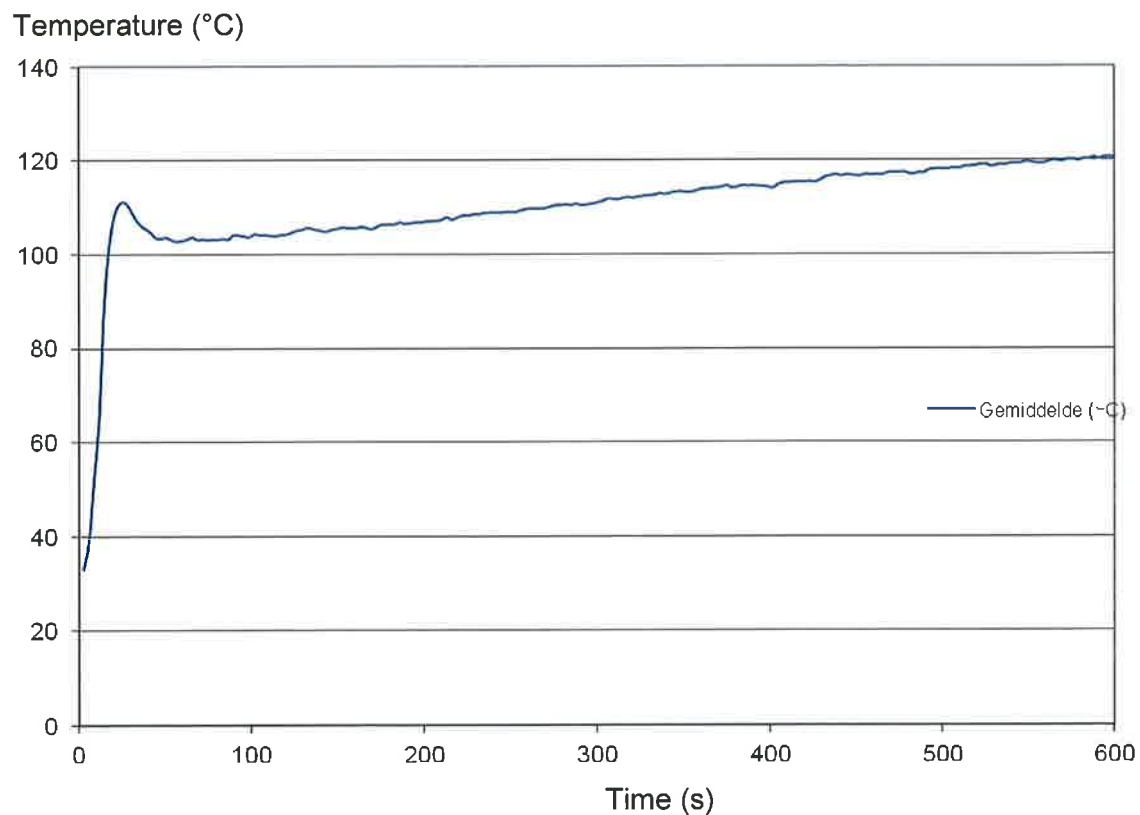
**Graph of Smoke Gas Temperature for Sample 1**



### Graph of Smoke Attenuation for Sample 2

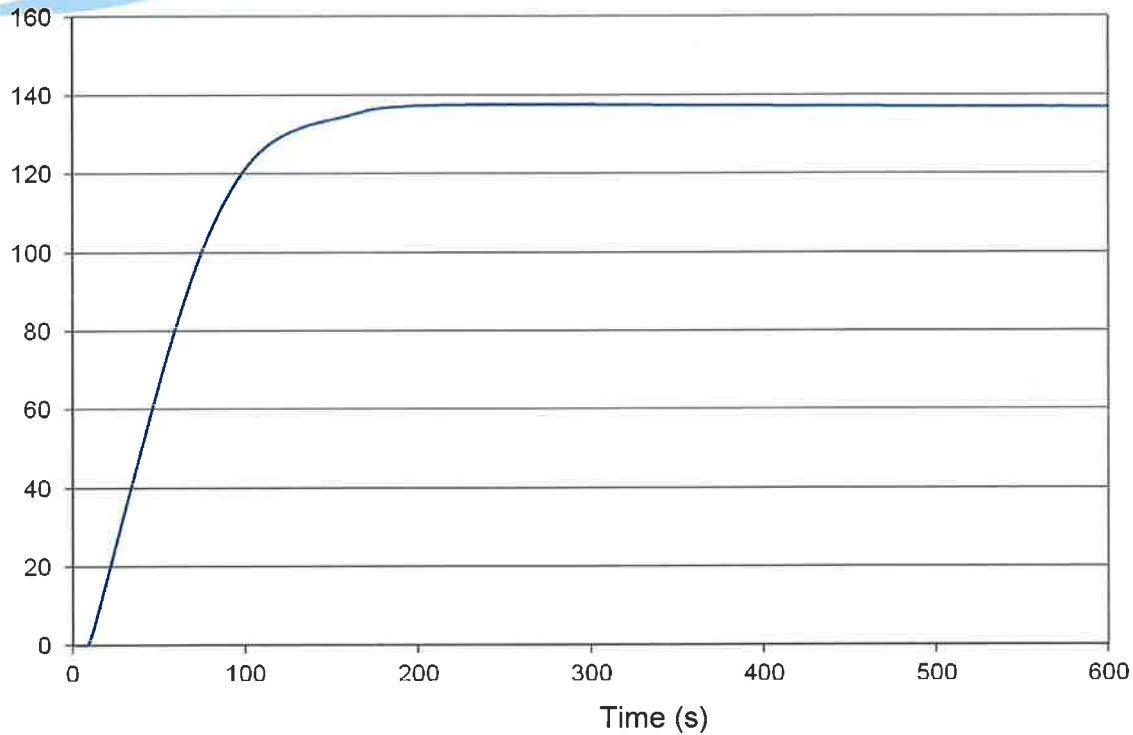


### Graph of Smoke Gas Temperature for Sample 2



### Graph of Smoke Attenuation for Sample 3

Smoke (%.min)



### Graph of Smoke Gas Temperature for Sample 3

Temperature (°C)

