

Test Report Nr 12197

Valid until 16-03-2011

Sponsor

DECEUNINCK NV
Bruggesteenweg 164
B-8830 HOOGLEDE-GITS
BELGIUM

Material

Wood PVC composite

Trade Name

Twinson

Manufacturer

DECEUNINCK NV
Bruggesteenweg 164
B-8830 HOOGLEDE-GITS
BELGIUM

Supplier

DECEUNINCK NV
Bruggesteenweg 164
B-8830 HOOGLEDE-GITS
BELGIUM

Nature of the test

Test according to DIN 4102 - Teil 1, Kleinbrenner B2.

Ghent, 27 MAART 2006



ing. F. DUTRIEUE
Project Manager



Prof.dr.ir. P. VANDEVELDE
Director

This test report consists of 4 pages

DIN 4102 teil 1 Eng Nr8.doc

On 2006-03-14 the firm DECEUNINCK NV, Bruggesteeweg 164, B-8830 HOOGLLEDIGTS, BELGIUM requested to carry out tests concerning the reaction to fire of a material in accordance with DIN 4102 - Teil 1, class B2.

1. Trade name : **Twinson**

2. Description of the material :

The tested material consists of a homogeneous wood PVC composite, mass coloured.

The material has got the reference Dbnr 00505.

Field of application : cladding and flooring

Sampling : by the sponsor

Samples received on : 2006-03-14

Amount : 6 pieces

Test date : 2006-03-16

3. Data concerning the material

	Nominal values	Measured values
Thickness (mm)	5	4,65
Surface weight (g/m ²)	-	6228
Volumic mass (kg/m ³)	1364	1339

4. Samples

5 samples of 90 x 190 mm and 5 samples of 90 x 230 mm are taken from the delivered material.

5. Test method

The test is carried out in accordance with the prescriptions of the German Standard DIN 4102 - Teil 1 (edition may 1998), §6.2, once with edge exposure and once with surface exposure (5 samples each).

6. Test Results

6.1. Edge exposure

Test Nr.	1	2	3	4	5
Ignition (s)	1	1	1	1	1
Max. flame height during the 20 s (cm)	4	3	3	3	4
after (s)	14	11	12	14	13
Reaching the test-mark (s)	No	No	No	No	No
Self-extinction (s)	15	15	15	15	15
After glowing (s)	No	No	No	No	No
Smoke development	Moderate	Moderate	Moderate	Moderate	Moderate
Ignition of filter paper (s)	No	No	No	No	No

6.2. Surface exposure

Test Nr.	1	2	3	4	5
Ignition (s)	3	5	4	3	4
Max. flame height during the 20 s (cm)	4	3	3	3	4
after (s)	14	13	14	13	14
Reaching the test mark (s)	No	No	No	No	No
Self-extinction (s)	15	15	15	15	15
After glowing (s)	No	No	No	No	No
Smoke development	Moderate	Moderate	Moderate	Moderate	Moderate
Ignition of filter paper (s)	No	No	No	No	No

7. Evaluation

- 7.1. The material, under the conditions of the test, meets the requirements of DIN 4102 - Teil 1 (may 1998) - §6.2. and can thus be classified as B2 (normalentflammbar).
- 7.2. Following DIN 4102 - Teil 1, §6.2.5, the material is considered as "nicht brennend abtropfend" (free from burning droplets).

8. Special remark

- 8.1 The classification B2 is valid only for the material, as described in §2 and §3. Small differences in the composition or thickness of the material or a combination with other materials may significantly affect the performance during the test and therefore invalidate the test results.
- 8.2 The material can thus be classified as DIN 4102 - B2.
- 8.3 The validity of the conclusion in §8 ends on 2011-03-16. At request this validity can be extended.
- 8.4 This report does not replace a general report of building inspection if required.