

Test Report Nr 11669

Translation of Beproeavingsverslag Nr 11669

Sponsor

WORLDROOF N.V.
Tinstraat 42
B-2580 PUTTE
BELGIUM

Material

Roofing tiles

Trade Name

Nordic

Name of the manufacturer

WORLDROOF N.V.
Tinstraat 42
B-2580 PUTTE
BELGIUM

Nature of the tests

Tests concerning the reaction to fire of this material according to the Royal Decree of 7 July 1994 amended by Royal Decree of 19 December 1997 and based on the standard BS 476 - Part 7 (1997).

This report consists of

6 pages with 1 annex

1. THE REACTION TO FIRE

The aim of the reaction to fire tests is to determine the behaviour in a fire of the material concerning the contribution of this material to the development of a starting fire.

This behaviour is characterised by test results, only of a conventional nature, so that these test results do not have an "absolute value".

2. DESCRIPTION OF THE TEST METHOD

At the request of the sponsor, the test and the classification are carried out in accordance with "Annex 5 : Reaction to fire of materials– of the Royal Decree of 7 July 1994 defining the basic requirements for prevention of fire and explosion to which new buildings shall fulfil – modified by Royal Decree of 19 December 1997".

For this purpose the test method according to the British Standard "BS 476 – Part 7 – 1997 – Method for classification of the surface spread of flame of products" was used.

3. TEST SPECIMEN

The firm Worldroof N.V., Tinststraat 42, B-2580 Putte, BELGIUM, provided the laboratory with a series of 7 samples of 0,265 m x 0,900 m.

Date of reception : 2005-04-04

Sampling : by the sponsor

Trade name : **Nordic**

Description :

This description is based on information given by the sponsor. All values are nominal, except for measured values, which are identified as MV. The measured values are mentioned in addition to the nominal values only if they differ more than 5 % from these nominal values.

The test material consists of a multi-layer roofing tile. The bottom layer consists of 3 mm PP, which has got a nominal surface mass of 3120 g/m². On top of the PP layer there has been applied 1 coating on waterbasis (857 g/m²), 1 layer of stone granulate (5212 g/m²) and 1 varnish top layer on waterbasis (293 g/m²). The material has got an orange-brown colour.

4. CONDITIONING

Before testing, the samples have been conditioned according to the specifications of the standard mentioned above.

5. RESULTS

The tests have been carried out on: 2005-04-27.

a) Observations:

Test Nr.	1	2	3	4	5	6
Spread of flame after 1'30" (mm)	50	70	70	150	110	60
Spread of flame after 10' (mm)	550	560	570	500	600	570
Extinction (s)	> 600	> 600	> 600	> 600	> 600	> 600

Annex 1: Surface spread of flame p (mm) as a function of time τ .

b) Results:

V_m after 1'30" : 150 mm
 V_i after 1'30" : 110 mm
 V_m after 10' : 600 mm
 V_i after 10' : 570 mm

6. CONCLUSION

The test results relate only to the behaviour of the product under the particular conditions of the test. These results are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

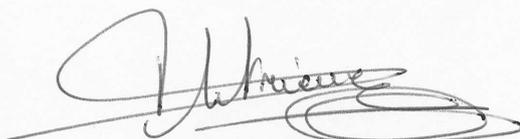
The test results are only valid for the specimens of the product as they have been tested. Small differences in the composition or thickness of the specimen may significantly affect the performance during the test and may therefore invalidate the test results.

In order to obtain test results which are representative for the product which is supplied or used, the conformity between the test specimen and the product should be assured. This is the role of the manufacturer and/or the supplier.

The roofing tile ' **Nordic** ', as described in § 3 and under the conditions of the test, **is classified in class A3** according to the Royal Decree of 7 July 1994 – Annex 5 : reaction to fire of materials – modified by Royal Decree of 19 December 1997, **and is classified in class 3**, according to the British Standard BS 476 - Part 7 – 1997.

Ghent, 13 JUNI 2005

Translation made, 13 JUNI 2005



ing. F. DUTRIEUE
Project Manager



Prof.dr.ir. P. VANDEVELDE
Director

BS 476 part 7 En nr8.doc

Surface spread of flame p (mm) as a function of time τ .

Test Specimen Nr	1		2		3		4		5		6	
	min	sec										
50 mm	0	45	0	36	0	46	0	54	0	59	0	42
100 mm	0	45	0	36	0	46	1	13	1	26	0	42
150 mm	1	58	1	54	0	46	1	30	1	26	1	50
200 mm	2	10	2	11	1	35	1	30	1	26	2	09
250 mm	3	30	3	47	3	02	2	50	2	42	2	09
300 mm	3	30	3	47	3	02	3	02	3	34	3	44
350 mm	3	59	4	14	3	24	3	02	3	34	3	44
400 mm	5	15	5	12	4	20	7	00	6	21	5	02
450 mm	9	07	8	15	7	36	7	24	8	05	7	42
500 mm	9	38	8	34	7	36	8	25	8	05	8	36
550 mm	9	48	9	09	8	51		(*)	8	05	9	04
600 mm		(*)		(*)		(*)			9	27		(*)
650 mm										(*)		
700 mm												
750 mm												
800 mm												
850 mm												
885 mm												

(*) not reached