

Test report

EasyTile

Easy-System GmbH
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Germany

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Danish Institute of Fire and Security Technology

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1 SPONSOR

Easy-System GmbH
Kirchstrasse 14 A
67681 Sembach
Germany

2 PRODUCT

Tile roofing product.

Description

Polyethylene and polypropylene base material moulded to form s-shape light weight roofing tile. For further information see enclosures 1 and 2.

3 NAME OF MANUFACTURER

The sponsor is the manufacturer.

4 PURPOSE OF TEST

With reference to Easy-System GmbH sampling report dated 2009-11-26, the sponsor desired initial type testing (ITT) in accordance with ENV 1187 test 2.

5 SAMPLE

2010-01-18 DBI-Danish Institute of Fire and Security Technology received the following sample:

21 black roof tiles with dimensions 420 x 473 mm and the thickness of material was 3.5 mm.

The weight per unit area at 20°C (undried) was 7.76 kg/m² at the state of receipt as determined by weight and measures of the sample.

The roof tiles were marked on the back with the manufacturer's name, telephone no., and clock with production year and month.

6 TEST SPECIMENS

Six test specimens were constructed by screwing the tile roofing, with the corrugations in the length direction of the specimen, onto a substrate of 50 mm thick expanded polystyrene (EPS) with dimensions 400 x 1000 mm and a density of 22 kg/m³, c.f. ENV 1187:2002 (5.4.2.2.).

The test specimens were supported by a 10 mm thick fibre reinforced calcium silicate board with dry density 640 ± 70 kg/m³.

7 CONDITIONING

On 2010-01-18 the specimens were stored in a conditioning room with an atmosphere of relative humidity of 50 ± 5% and a temperature of 23 ± 2°C. The specimens were kept in this room until the tests were performed.

8 TEST METHOD

The test was performed in accordance with

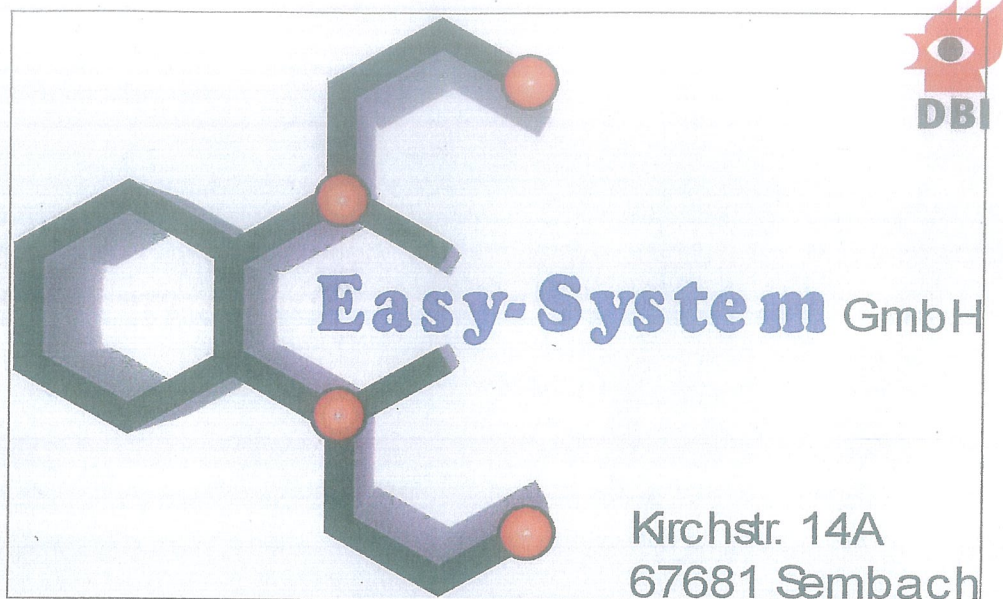
ENV 1187:2002 Test methods for external fire exposure to roofs.
 Test 2: Method with burning brands and wind.
 (Identical with Nordtest method NT FIRE 006).

9 TEST RESULTS

Date of test: 2010-01-26.

The results are shown in the following table:

Test No.	1	2	3	4	5	6
Air velocity (m/s)	2	2	2	4	4	4
Time (minutes.seconds)						
End of flaming	6.18	6.26	6.35	3.38	2.41	4.26
End of glowing	11.16	10.06	10.52	6.30	5.12	6.46
Length of damage, mm (as measured from the centre of the source of the fire) in the						
- roof covering	195	220	200	230	250	240
- substrate	135	185	135	75	75	120



2.0 Produktbeschreibung

Die Easy –System Dachpfannen bestehen aus einem Recycelten PP/ PE Komponenten, Mineralischen Füllstoffen , sowie UV – Stabilisatoren.

Das System besteht aus Flächenpfannen, Ortangelementen sowie Firstelementen.

Das Material ist mineralisch Flammenschutzoptimiert und frei von Halogenen

Bestandteile sind : Polyethylen, Polypropylen, Magnesiumhydrooxid, Mineralische Farbstoffe, sowie technische Additive.

Die Produktion erfolgt im Spritzgussverfahren, je Zyklus werden zwei Dachpfannen mit den gleichen Abmaßen und Farbe hergestellt.

Technische Daten:	Länge:	420 +/- 2 mm
	Breite:	473 +/- 2 mm
	Materialdicke:	3,5 + 1 mm
	Gewicht:	1,450 kg + 0,1 Kg

(Anlage: 4 Technische Zeichnungen)

10 STATEMENT

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



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