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## Classification report of roof covering product "Extrubit S" exposed to external fire

### 1. Introduction

This classification report defines the classification assigned to the product "Extrubit S" in accordance with the procedure given in EN 13501-5:2005.

### 2. Description of the roof covering

The product is fully described below.

Roof covering called "Extrubit S", consisting of glass fibre reinforced sheet of ethylen copolymer bitumen. The product has a nominal area weight of 2.02 kg/m<sup>2</sup> and a nominal thickness of 2.0 mm.

### 3. Test reports & test results in support of this classification

#### 3.1 Test reports

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Schedetal Folien GmbH	P601845D	ENV 1187, test 2

#### SP Swedish National Testing and Research Institute

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**3.2 Test results, test method 2**

Test condition according to ENV 1187:2002, test 2.

Test pitch 30°.

Substrate of non-combustible mineral wool having a density of  $150 \pm 20 \text{ kg/m}^3$  and thickness  $50 \pm 10 \text{ mm}$ .

Parameter	Criteria		Test Results					Compliance
	Mean	Max	Test 1	Test 2	Test 3	Mean	Max	
Damaged length at 2 m/s – roof covering	$\leq 0.550 \text{ m}$	$\leq 0.800 \text{ m}$	0.380	0.383	0.385	0.383	0.385	Yes
Damaged length at 2 m/s - substrate	$\leq 0.550 \text{ m}$	$\leq 0.800 \text{ m}$	_*	_*	_*	_*	_*	Yes
Damaged length at 4 m/s – roof covering	$\leq 0.550 \text{ m}$	$\leq 0.800 \text{ m}$	0.330	0.388	0.465	0.394	0.465	Yes
Damaged length at 4 m/s - substrate	$\leq 0.550 \text{ m}$	$\leq 0.800 \text{ m}$	_*	_*	_*	_*	_*	Yes

\* only discoloured

**4. Classification and field of application**

**4.1 Reference**

This classification has been carried out in accordance with clause 6.4.3, 7, 8.2 and 9 in EN 13501-5:2005.

**4.2 Classification**

The roof covering “Extrubite S” in relation to its external fire performance is classified:

*B<sub>ROOF</sub>(t<sub>2</sub>)*



#### 4.3 Field of application:

This classification is valid for the following conditions:

Substrates

- Non-combustible substrates, having a density  $\geq 112 \text{ kg/m}^3$ .

Fixings

- Mechanically fixed.

Pitches

- All pitches.

This classification is also valid for the following product parameters:

Nominal thickness: 2 mm.

Nominal area weight:  $2.02 \text{ kg/m}^2$

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

#### 5. Limitations

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

**SP Swedish National Testing and Research Institute**  
**Fire Technology - Materials Reaction to Fire**

  
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## External Fire Exposure to roof according to ENV 1187, Test 2 - Method with burning brands and wind

(1 appendix)

### Product

Roof covering called "Extrubit S", consisting of glass fibre reinforced sheet of ethylen copolymer bitumen. The product has a nominal area weight of 2.02 kg/m<sup>2</sup> and a nominal thickness of 2.0 mm.

### Manufacturer

Schedetal Folien GmbH, Hann.-Muenden, Germany.

### Purpose of test

Basis for technical fire classification.

### Sampling

The sample was delivered by the client. It is not known to SP Fire Technology if the product received is representative of the mean production characteristics.

The sample was received April 24, 2006 at SP Fire Technology. The product was marked "E6".

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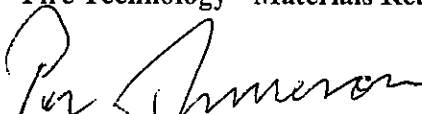
**Test results**


A full fire test series

The test results of "Extrubit S", when applied onto a non-combustible backing (board of mineral wool, 150 kg/m<sup>3</sup> and 50 mm), are given in appendix 1.

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.

**SP Swedish National Testing and Research Institute**  
**Fire Technology - Materials Reaction to Fire**

  
Per Thureson  
Technical Manager

  
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Technical Officer

**Appendix**

1 Test results



## Test results – ENV 1187:2002, Test 2

### Product

Roof covering called "Extrubite S", consisting of glass fibre reinforced sheet of ethylen copolymer bitumen. The product has a nominal area weight of 2.02 kg/m<sup>2</sup> and a nominal thickness of 2.0 mm.

### Application

The specimen was nailed to a non-combustible board (board of mineral wool) having a density of 150 kg/m<sup>3</sup> and a thickness of 50 mm approximately.

### Test results

Test no	1	2	3	Average value	4	5	6	Average value
Air velocity, m/s	2	2	2		4	4	4	
The roof covering was ignited, min:s	00:30	00:29	00:28		00:28	00:28	00:28	
The flames died out, min:s	06:48	08:18	07:07		05:39	04:46	05:27	
The glow died out, min:s	09:42	10:31	10:20		08:23	06:41	06:24	
Fire and glow were extinguished, min:s	-	-	-		-	-	-	
Damage on the surface, mm	380	383	385	<u>383</u>	330	388	465	<u>394</u>
Damage in the underlay, mm	-	-	-	=	-	-	-	=

### Measured data

Thickness 1.8 – 2.0 mm.  
Area weight 1.9 – 2.0 kg/m<sup>2</sup>.

### Conditioning

Temperature 23 ± 2 °C.  
Relative humidity (50 ± 5) %.

### Date of test

May 17, 2006.