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**Applicant/Deney Sahibi :** **All Print Supplies**  
**Applicant Address/ Adres:** Groendreef 35,9880 Aalter - Belgium  
**Contact Telephone / Telefon:** 0 44 1753 696977  
**Contact e-mail / E-Posta:** sales@allprint.co.uk

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**Sample ID :** **MS190 Total Mirror Silver**

	TEST/ INSPECTION	DIRECTIVE	METHOD	RESULT		
*	Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests.	Construction Product Inspections EU 305/2011 89/106/EEC	EN 13501-1	PASS		
				B	s1	d0

NOTE: This test/inspection result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

Customer Representative

Merve Nur KIRVELİ

Laboratory Manager

Merve ÖZLÜ

Test/inspection results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test/inspection Request Form (PR03-F01) conveyed to us from the Applicant. Test/inspection results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "\*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025, Analysis as indicated with "\*\*\*" are performed at the external laboratories using accredited test/inspection methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting "N" to related pages. Tested and remaining samples will be kept in specified terms & conditions at test/inspection request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values, Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment of the test/inspection results shown in this Report. Evaluation of the test/inspection results using Measurement Uncertainty values is the responsibility of the Applicant. An inspection body shall issue an inspection certificate that does not include the inspection results only when the inspection body can also produce an inspection report containing the inspection results, and when both the inspection certificate and inspection report are traceable to each other.

PR33-F01/08.10.2015/Rev:17.01.2017-R01

## EN ISO 13501-1: Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests.

Building products and structural elements, fire classification. Part 1: Classification by using data obtained from the behavior tests against fire.

This standard covers the behavior of all building products, including products used in combination with structural elements, against flame.

Provisions for Inspection and Test:

If Rule / Test Is Not Needed To Be Applied To Sample (Not Applicable To Sample)	NU
If the Specimen Fits the Rules (Passed)	P
If the Specimen Tested Does Not Comply with the Rules (Left)	K
If there is a Rule / Experiment Not Applied for Any Reason (Unable)	Y

### Related Product Standard and Citations: Fire Response Test (EN 13501-1 B Class)

**Conditioning Details C.L. 6.1:** The conditioning shall be in accordance with EN 13238 and the requirements of C.L. 6.2.

<b>Class B</b> (EN ISO 13501-1 Clause 8.2)	For the determination of conformity to <b>Class B</b> , use a product, the time of exposure to flame according to EN 13501-1
<b>Test Sample</b>	Length ..... mm , Width ..... mm , Thickness ..... mm
<b>Exposure Requirements</b>	<b>Surface exposed to flame</b>

**RESULT:** Tests and tests were carried out according to the European Standard TS EN ISO 13501-1. The product has passed the test successfully.

*“The result of this experiment is related to the behavior of the test specimen of a product under the special conditions in which the test is applied; Not a single criterion for assessing the potential fire hazard of a product under actual use.”*

### Reaction to fire

The combustion class (Euroclasses) of the product must be determined in accordance with EN 13501-1.  
**EN 13823 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item**

This test is carried out to determine whether a contribution to a fire is significant, regardless of the end use of a product.

Material	Rule / Test	Result / Evaluation		Decision
<b>EN 13823</b>	<b>Test sample</b>			
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<b>6</b>	<b>Conditioning</b>			
	6.1 The conditioning shall be in accordance with EN 13238 and the requirements of 6.2. 6.2 The parts that compose a specimen may be conditioned separately or fixed together. However, specimens that are tested glued to a substrate shall be glued before conditioning.	It is conditioned under the conditions mentioned in the standard.		<b>PASS</b>
<b>9</b>	<b>Expression of results</b>	<b>EN 13823</b>	Classification Criteria FIGRA <sub>1</sub> ≤ 120W/s THR <sub>600s</sub> ≤ 7,5 MJ	<b>Class B</b> <b>PASS</b>
<b>9.1</b>	For each test, the burning behaviour of the product shall be represented by graphs of average heat release rate HRR <sub>av</sub> (t), total heat release THR(t), and 1000 HRR <sub>av</sub> (t)/(t - 300), for the time interval 0 t 1 500 s; the values for the fire growth rate indices FIGRA <sub>0,2</sub> MJ and FIGRA <sub>0,4</sub> MJ, and the total heat release within 600 s THR <sub>600s</sub> , calculated in accordance with A.5, and the occurrence or not of lateral flame spread up to the edge of the specimen in accordance with 8.3.3..	<b>Number of Specimens (3)</b>  1 <sup>st</sup> test	<b>FIGRA<sub>1</sub>: 111W/s</b> <b>THR<sub>600s1</sub>: 6,5MJ</b>	
<b>9.2</b>	For each test, the smoke production behaviour of the product shall be given as the graphs of SPR <sub>av</sub> (t), total smoke production TSP(t) and 10000 SPR <sub>av</sub> (t)/(t - 300), for the time interval 0 t 1500 s; and the values for the smoke growth rate index SMOGRA and the total smoke production within 600 s TSP <sub>600s</sub> , calculated in accordance with A.6.	2 <sup>nd</sup> test	<b>FIGRA<sub>2</sub>: 109W/s</b> <b>THR<sub>600s2</sub>: 6,3MJ</b>	
<b>9.3</b>	For each test, the behaviour of the product regarding the production of flaming droplets and particles shall be given as the occurrence, or not, of one or both categories of fallen flaming droplets and particles, in accordance with 8.3.4, a) or b) respectively.	3 <sup>rd</sup> test	<b>FIGRA<sub>3</sub>: 107W/s</b> <b>THR<sub>600s3</sub>: 6,3MJ</b>	

Classification of **MS190 Total Mirror Silver** according to EN ISO 11925-2 according to the behavior against fire:

**B**

Test method	Parameter	Mean of continuous parameter	Classification Criteria
EN ISO 11925-2	$Fs_{60s} \leq 150 \text{ mm}$	130	Class B
	$Fs_{60s} \leq 150 \text{ mm}$	128	Class B
	$Fs_{60s} \leq 150 \text{ mm}$	133	Class B
	$Fs_{60s} \leq 150 \text{ mm}$	135	Class B
	$Fs_{60s} \leq 150 \text{ mm}$	129	Class B
	$Fs_{60s} \leq 150 \text{ mm}$	124	Class B

Test method	Parameter for Smoke	Parameter	Classification Criteria
TS EN 13823	SMORGS <sub>1</sub> :168m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>1</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2
	SMORGS <sub>2</sub> :177m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>2</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2
	SMORGS <sub>3</sub> :160m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>3</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2
	SMORGS <sub>4</sub> :172m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>4</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2
	SMORGS <sub>5</sub> :169m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>5</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2
	SMORGS <sub>6</sub> :175m <sup>2</sup> /s <sup>2</sup>	SMORGS <sub>6</sub> ≤180m <sup>2</sup> /s <sup>2</sup>	s2

Test Method	Parameter For Droplets	Classification Criteria
TS EN 13823	d0 = No flaming droplets/ particles in within 600 s;	d0
	within 600 s;	d0
	d0 = No flaming droplets/ particles in within 600 s;	d0
	within 600 s;	d0
	d0 = No flaming droplets/ particles in within 600 s;	d0
	within 600 s;	d0

Classification of **MS190 Total Mirror Silver** based on fire behavior:

**B**

Additional classification for smoke formation:

**s1**

Additional classification for burning drops / beads:

**d0**

*Reaction to fire for -*

Flammability Behavior		Smoke			Burning Drops	
B	-	s	1	-	d	0

## Sample Image



**\*\*\*End Of Report\*\*\***