

Report

2004-1457

12.05.2004

Thema: Testing the EU building class according to DIN EN 13501-1 in the SBI-Test according to DIN EN 13823 and according to ISO 11925-2:2002(E) of a facade panelling, by the order of the Fa. Alumil Milonas S.A..

Abridged version:

By the order of the Fa. Alumil Milonas S.A. 3 specimen of a facade panelling had to be tested in the SBI –test according to DIN EN 13823 and each 3 specimen had to be tested with edge- and surface ignition according to ISO 11925-2:2002(E).

Material designation: Facade panelling, 4 mm sandwich panels
(0,5 mm Al - 3 mm Polyethylen - 0,5 mm Al), thickness 4 mm (measured)

Construction: Specimen for the SBI – test covered with calciumsilicat plates behind thickness 10 mm / density: 800 kg/m³) without further fixings.
Cover film removed for the test; dull surface to the burner.

Date of arrival: **05.05.2004** Date of test: **11.05.2004**

Single results: see annexes 1-2

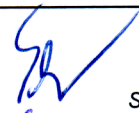
Fotos: see annexes 3-4

Test results SBI:	FIGRA _{0,4MJ}	[W/s]	13,3531
(average)	THR _{600s}	[MJ]	1,2661
	SMOGR-index	[m ² /s ²]	5,0175
	TSP _{600s}	[m ²]	64,6639
	LFS		< edge of specimen Probe

Classification: The tested material passes:
the requirements of the EU – building classes **B or better, s2 und d0**
according to DIN EN 13501-1.

This report contains of 1 page and 4 annexes

Remarks: These test results relate only to the behaviour of the test specimens 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.
2 Testreports in German and English / No part of the test report may be reproduced without written permission of the test laboratory.

Distributor	Signatures
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Annex 1

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Test results SBI according to DIN EN 13823

Single results of 3 tests:

		Test 1	Test 2	Test 3	Average
FIGRA _{0,4MJ}	[W/S]	9,9351	19,4344	10,6899	13,3531
THR _{600s}	[MJ]	0,7305	2,2383	0,8295	1,2661
SMOGRA-index	[m ² /s ²]	8,4527	4,52	2,0798	5,0175
TSP _{600s}	[m ²]	115,520	44,482	33,9896	64,6639
LFS		< edge	< edge	< edge	< edge
Burning drops	yes/no	no	no	no	no

Bemerkungen: The material/the plates were tested with open edges, covered with calziumpulicat plates behind it without further fixings.

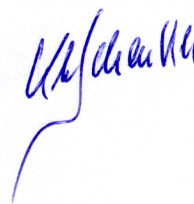
The variation of the results (burning behaviour and smoke) is caused by the different outflow behaviour of the polyethylene layer from the open edges of the aluminium plates

Prepared:


Scheinkönig

Walter

Approved:



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Annex 2

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Test results according to ISO 11925-2:2002(E)

Customer: Fa. Alumil Milonas S.A.

Material: Facade panelling, 4 mm sandwich panels
(0,5 mm Al - 3 mm Poyethylen - 0,5 mm Al), thickness 4 mm (measured)

Construction: without covering

Clima storage (23°C / 50% rel. F.): >72 h

Test direction: length, edge ignition

Ignition time: 30 [s]

Specimen no.		1	2	3
Thickness of material	[mm]	4	4	4
Reaching the 150mm mark after	[s]	-	-	-
Flame time	[s]	0	0	0
Sample parts	non flaming after	[s]	-	-
	flaming after	[s]	-	-

Remarks:

Test direction: length, surface ignition

Ignition time: 30 [s]

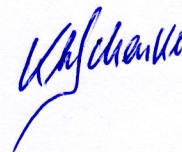
Specimen no.		1	2	3
Thickness of material	[mm]	4	4	4
Reaching the 150mm mark after	[s]	-	-	-
Flame time	[s]	0	0	0
Sample parts	non flaming after	[s]	-	-
	flaming after	[s]	-	-

Remarks:

Prepared:


Scheinkönig

Approved:



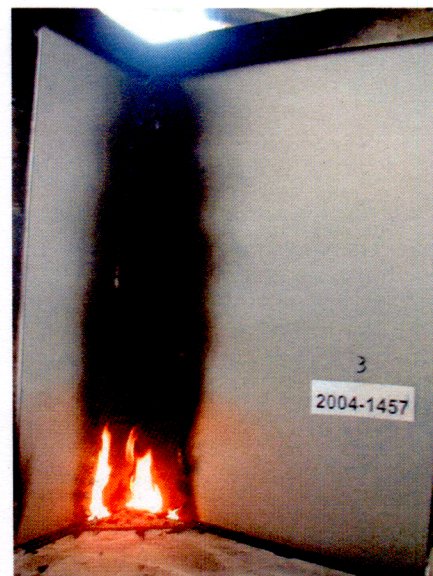
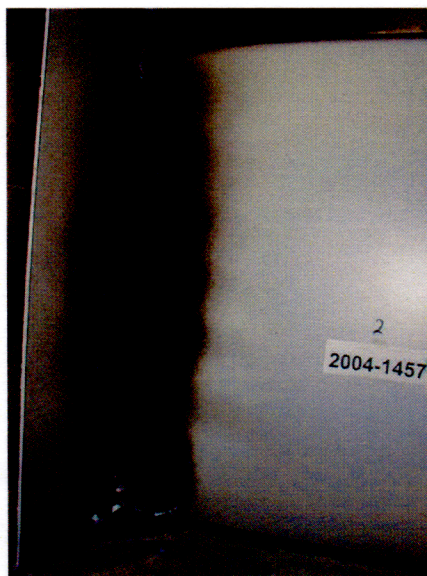
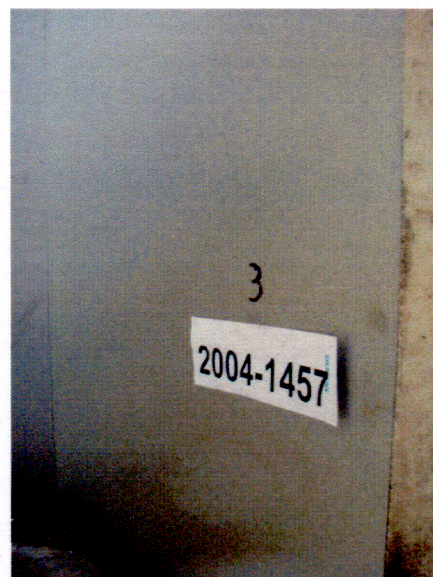
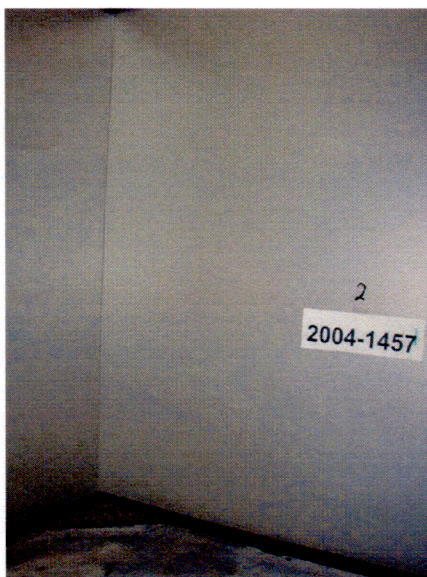
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Annex 3

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Annex 4

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