



- Certified translation from the German language -

Unit III
Structural fire prevention

General Manager:

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Working group fire behaviour of building materials

CLASSIFICATION REPORT

No. KB III/B-05-038

of 01/11/2005 1st copy

Applicant: Novelis Deutschland GmbH, Werk Göttingen
Hannoversche Strasse 1
37075 Göttingen

This classification report defines the classification of the building product in compliance with the procedure specified in DIN EN 13501-1.

Subject matter: Novelis coloured aluminium from coil coated aluminium

1 Details of the classified building product

1.1 Description of the building product

The building product to be classified is coil-coated aluminium plate which is provided at the exposed and rear side with one or several coats one on top of the other.

The coloured aluminium is used for the building products ceiling panels, jalousie bar Siding, roof window Falzonal, FF2 facade cladding and Signicolor advertising signs.

This test report consists of 4 text sheets and one Annex.

The test report shall be published in unabridged form only. Publication – also of excerpts – shall be subject to the prior written approval by MFPA Leipzig GmbH.

The coil-coated aluminium plates as coloured aluminium are structured and composed as follows:

Refer to Annex 1 to this classification report.

1.2 Structure of samples for the tests according to DIN EN 13823

- NE wide panels, type HS 400-04 (smooth) of Messrs. NE Deckensysteme GmbH, 45733 Oer-Erkenschwick, panel width 400 mm, joint width 4 mm, plate thickness of panels 0.77 mm, applied on a NE-HZF sub-structure of 0.77 mm thick coil-coated Novelis coloured aluminium

2 Classification based on the following test reports and test results

2.1 Test reports

Name of laboratory	Principal	Number of test report	Test method
MFPA Leipzig GmbH	Novelis Deutschland GmbH, Göttingen	PB III/B-05-274 dated 01/11/2005	DIN EN ISO 1716
MFPA Leipzig GmbH	Novelis Deutschland GmbH, Göttingen	PB III/B-05-166 dated 15/07/2005	DIN EN 13823

2.2 Test result acc. to DIN EN 13823

Test methods	Parameters	Number of tests	Test results	
			Continuous parameters (average value)	Requirements met (Y/N)
EN 13823	Figra _{0.2 MJ}	3	0	Y
	Figra _{0.4 MJ}	3	0	
	LFS < edge	3		
	THR _{600s} [MJ]	3	0.2	
	Smogra [m ² /s ²]	3	0	
	TSP _{600s} [m]	3	34	
	Burning dripping down/falling down	3	-	Nor burning dripping down/falling down

2.3 Test results acc. to DIN EN ISO 1716

Test methods	Parameters	Number of tests	Test results	
			Continuous parameters (average value)	Requirements met (Y/N)
EN ISO 1716	Aluminium plate PCS [MJ/kg]: Basic paint as part of the finish coat	-	0	-
	PCS [MJ/kg]: Clear coat as part of the finish coat	3	13.546	-
	PCS [MJ/kg]: Finish coat (basic coat and clear coat)	3	30.817	-
	PCS [MJ/kg]: Rear side coat	3	0.842	-
	PCS [MJ/kg]: Rear side coat	3	24.068	-
	PCS [MJ/kg]: Product as a whole	3	0.094	-
	PCS [MJ/kg]:	3	0.727	-

3 Classification and direct application

3.1 Reference

This classification procedure has been carried out in compliance with sections 10 and 12.1 of the norm DIN EN 13501-1:2002.

3.2 Classification

The coil-coated aluminium plates as coloured aluminium are classified in terms of its fire behaviour: A1

Additional classification in terms of smoke development is: --

Additional classification in terms of burning dripping/falling down is: --

Format of classification of fire behaviour of the building product is:

Fire behaviour		Smoke development	Burning dripping/falling down
A1	-	--	--

i.e. A1

3.3 Application of the product

This classification is applicable to the following final application conditions:

- as panel material
- Coil-coated aluminium plates with a thickness of min. 0.43 mm and the paint coats according to Annex 1 to this classification report
- The coil-coated aluminium plates shall not be backed by other area building materials and shall be arranged at a minimum distance of 25 mm to other inflammable building materials.
- The coil-coated aluminium plates can be used for suspended ceiling systems with sub-structures of coil-coated aluminium of Novelis Deutschland GmbH as closed finish coats and as finish coats with joints of max. 40 mm joint width.

4 Restrictions

This document shall not be deemed a type admission or product certification.

This classification report shall not replace a verification, if necessary, according to the German Law of Construction (regional construction regulations) issued by the building inspectorate.

The validity of this classification report expires on 30/11/2010.

Leipzig, November 01, 2005

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