



مختبر الإمارات للسلامة
EMIRATES SAFETY LABORATORY

TEST REPORT

REPORT NUMBER.
0302-26-CR-01

Reaction to Fire Classification Report of Alesta HD applied on 1mm thick Aluminium Sheet

According to: EN 13501-1:2018

Date of issue: 2 September 2026



Table of contents

ITEM	PAGE
Table of contents	2
1 Introduction	3
2 Details of the Classified Product	3
3 Classification and Field of Application	6
4 Signatories	7

1 Introduction

This classification report defines the classification assigned to Alesta HD applied on 1mm thick Aluminium Sheet in accordance with the procedures given in EN 13501-1:2018.



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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2018

Sponsor:	Axalta Coating Systems (ME) LLC Al Ghail Industrial Park, P.O.Box 86446 Ras Al Khaimah, United Arab Emirates
Prepared by:	Emirates Safety Laboratory Warsan Third, Dubai, United Arab Emirates
Notified Body No:	Not applicable
Test performed at:	Emirates Safety Laboratory Warsan Third, Dubai, United Arab Emirates
Product name:	Alesta HD applied on 1mm thick Aluminium Sheet
Classification report no.	0302-26-CR-01
Issue number:	1
Date of issue:	2 September 2026

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2 Details of the Classified Product

2.1 General

The product is defined by the test sponsor as Alesta HD applied on 1mm thick Aluminium Sheet.

2.2 Product Description

The product, Alesta HD applied on 1mm thick Aluminium Sheet is described in support of the classification listed in Section 4.

Note: ^(A) The information/value was provided by the test sponsor.

^(B) The information/value was measured/verified by ESL Testing.

Table 1

General description	Alesta HD applied on 1mm thick Aluminium Sheet ^(A)	
Manufacturer	Axalta Coating Systems (ME) LLC ^(A) Al Ghail Industrial Park, P.O.Box 86446 Ras Al Khaimah, United Arab Emirates	
Thickness	1.21mm ^(B)	
Area weight	3.06 kg/m ² ^(B) (measured from 193.5 x 492.5mm panel)	
Topcoat	Type	Powder coat ^(A)
	Tested colour	Black, DR09842 ^(B)
		Please see Table 2 of 0302-26-TR-01 test report
	Manufacturer	Axalta Coating Systems ^(A)
	Thickness	50-65microns ^(A)
Substrate	Density	1500-1600 kg/m ³ ^(A)
	Material	Aluminium sheet ^(A)
	Thickness, mm	1 ^(B)
	Density, kg/m ³	2720 ^(A)

2.3 Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date
Emirates Safety Laboratory	Axalta Coating Systems	0302-26-TR-01 2 September 2026	EN ISO 1716:2018
		0302-26-TR-02 2 September 2026	EN 13823:2020+A1:2022

2.4 Results

Test standard	Parameter	No. of tests	TEST RESULTS	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823:2020+A1:2022 (0302-26-TR-02)	For Class “A2”			
	THR _{600s} ≤ 7.5 MJ	3	1.3	Compliant
	FIGRA _{0.2MJ} ≤ 120 W/s	3	34	Compliant
	Lateral flame spread < Edge of specimen	3	< Edge of specimen	Compliant
	For subclass “s1”			
	TSP _{600s} ≤ 50 m²	3	5	Compliant
	SMOGRA ≤ 30m²/s²	3	0	Compliant
	For subclass “d0”			
	No flaming droplets/ particles within 600s	3	Not observed	Compliant
EN ISO 1716-2:2020 (0302-26-TR-01)	External non-substantial layer (Topcoat) Q _{pcs} MJ/m² ≤ 4.0 MJ/m²	3	1.9	Compliant
	Substantial Layer (Aluminium) Q _{pcs} MJ/kg ≤ 3.0 MJ/kg		0	
	Product as a whole Q _{pcs} MJ/kg ≤ 3.0 MJ/kg		0.7	

3 Classification and Field of Application

3.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

3.2 Classification

The product, Alesta HD applied on 1 mm thick Aluminium Sheet in relation to its reaction to fire behaviour is classified as:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour		Smoke production		Flaming droplets
A2	-	s	1	, d 0

Reaction to fire classification: **A2-s1, d0**

3.3 Field of application

The classification is valid for the following product parameters:

Colour of topcoat	Any variation allowed
Type of the coatings	No variation allowed
Thickness and density of the components	No variation allowed
Product composition and layout	No variation allowed
Substrate	Any thickness greater than the tested substrate. Any end use metal substrates with melting point equal to or greater than 500°C
Joints	For assembly without joints
Air gap	Non-ventilated

This classification is valid for the following end-use applications:

Details of buildup/Construction - No variation in the build-up allowed.

3.4 Limitations

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

4 Signatories

Prepared by	Reviewed and Authorized by
Rachel Marie Novelo Principal Engineer Reaction to Fire	Sebastian Ukleja Testing Manager
Signature	Signature
	

--END OF REPORT--