

CLASSIFICATION OF REACTION TO FIRE

IN ACCORDANCE WITH

EN 13501-1:2018

Sponsor	: AFS BORU SANAYİ A.Ş. İvedik OSB 1468. Cadde, No: 153 6370, Ostim, Ankara / TURKEY
Prepared by	: EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası Osb Mah. Fırat Cad. No: 18 Dilovası, Kocaeli / TURKEY
Product name	: ISOAFS-ALU HYGIENE ECOSOFT
Classification report No.	: ERA – 21 – 230
Issue Number	: 1/2
Date of issue	: 24.12.2021

This classification report consists of 5 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “ISOAFS-ALU HYGIENE ECOSOFT” in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

ISOAFS-ALU HYGIENE ECOSOFT is defined as a “type of classified product”.

2.2. Description:

ISOAFS-ALU HYGIENE ECOSOFT is fully described in the test reports in support of the classification listed in clause 3.

Manufactured Plant: AFS BORU SANAYİ A.Ş.

İvedik OSB 1468. Cadde, No: 153 6370, Ostim, Ankara / TURKEY

Tested product types:

Product name	Mineral wool		Polyurethane based glue	Polyester lamination	Aluminium foil	Total product thickness (mm)
	Density (kg/m ³)	Thickness (mm)	Consumption (g/m ²)	Total thickness (µm)	Total thickness (µm)	
ISOAFS-ALU HYGIENE ECOSOFT	16	25	N/A	24	27	25,12

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	AFS BORU SANAYİ A.Ş.	FTST211056	EN 13823:2020
		FTST211057	EN ISO 11925-2:2020
		FTST211058	EN ISO 11925-2:2020

3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean	Compliance parameters
EN 13823	FIGRA _{0,2 MJ} (W/s)	3	505,9	(-)
	FIGRA _{0,4 MJ} (W/s)	3	30,3	(-)
	LFS > edge	3	No	No
	THR _{600 s} (MJ)	3	1,7	(-)
	SMOGR _A (m ² /s ²)	3	8,8	(-)
	TSP _{600 s} (m ²)	3	15,8	(-)
	Flaming droplet(s)/particle (s)	3	None	None
EN ISO 11925-2 Flame exposition: 30 s	F _s ≤ 150 mm ⁽¹⁾	6	Yes	Yes
	ignition of filter paper ⁽¹⁾	6	No	No
	F _s ≤ 150 mm ⁽²⁾	6	Yes	Yes
	ignition of filter paper ⁽²⁾	6	No	No
(-): Not applicable (1): Surface flame attack (2): Edge flame attack				

Test method	Parameter	Classification result	Compliance parameters
EN 13823	FIGRA _{0,4 MJ} [W/s]	30,3	≤ 250 (C)
	LFS > edge	No	No (C)
	THR _{600 s} (MJ)	1,7	≤ 15 (C)
	SMOGR _A [m ² /s ²]	8,8	≤ 30 (s1)
	TSP _{600 s} [m ²]	15,8	≤ 50 (s1)
	Flaming droplet(s)/particle (s)	None	None (d0)
EN ISO 11925-2	F _s ≤ 150 mm	Yes	Yes (B – D)
	Ignition of filter paper	No	No (d0)
(-): Not applicable			

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.5, 11.9.2, 11.10.1 and 11.10.1 of EN 13501-1:2018

4.2. Classification

ISOAFS-ALU HYGIENE ECOSOFT, in relation to its reaction to fire behaviour is classified:

C

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 *ISOAFS-ALU HYGIENE ECOSOFT* is:

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

Reaction to fire classification: C-s1,d0

4.3. Field of application

This classification is valid for the following product parameters:

Product name	Mineral wool		Polyurethane based glue	Polyester lamination	Aluminium foil	Total product thickness (mm)
	Density (kg/m ³)	Thickness (mm)	Consumption (g/m ²)	Total thickness (μm)	Total thickness (μm)	
ISOAFS-ALU HYGIENE ECOSOFT	16	25	N/A	24	27	25,12

This classification applies to the following end-use conditions:

- Applications without an airgap between the product and the backing board.

5. LIMITATIONS

5.1. Restrictions

This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3.

This classification report does not represent any type approval or certification of the product. This report is initially valid until 24th December 2022 providing that no significant modifications are made in technical specification of the specimen and related test and classification standards.

5.2. Warning

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

Signed:

e-signed

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Uğur ÇAVAŞ

Person in the charge of tests



Approved:

e-signed

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Ali BAYRAKTAR

Laboratory Manager