

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

Sponsor : HİS YALITIM İZOLASYON İNŞAAT MADENCİLİK SAN. VE
TİC. LTD. ŞTİ.
İncesu O.S.B. Sultansazı Mah. 2. Cad. No: 11, Melikgazi,
Kayseri, TURKEY

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Product name : Terrawool Insulation Boards

**Classification
report No.** : ERA – 20 – 219

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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 “Terrawool Insulation Boards” in accordance with the procedures given in EN 13501-1:2018

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

Terrawool Insulation Boards is defined as a “type of classified product”. Its classification is valid for the following end use application:

EN 14303:2009+A1:2013: Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products - Specification

2.2. Description:

Terrawool Insulation Board TW150 and Terrawool Insulation Board TWCT50 are fully described in the test reports in support of the classification listed in clause 3.

Manufactured Plant: HİS YALITIM İZOLASYON İNŞAAT MADENCİLİK SAN. VE TİC. LTD. ŞTİ.
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Tested product types:

Product Name	Density [kg/m ³]	Thickness [mm]	Organic matter content [kg/m ³]	Surface coating		
				Type	Mass per unit area [g/m ²]	Thickness [µm]
TERRAWOOL INSULATION BOARD TWCT50	50	50	1,5	Black glass tissue	60	30
TERRAWOOL INSULATION BOARD TW150	150	50	5,55	Uncoated		

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.	HİS YALITIM İZOLASYON İNŞAAT MADENCİLİK SAN. VE TİC. LTD. ŞTİ.	FTST20770	EN ISO 1716:2018
		FTST20771	EN ISO 1182:2020
		FTST20772	EN 13823:2020
		FTST20773	EN ISO 1716:2018

EFFECTIS

3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean	Compliance parameters
EN 13823 ⁽¹⁾	FIGRA _{0,2 MJ} (W/s)	3	0,0	(-)
	FIGRA _{0,4 MJ} (W/s)	3	0,0	No
	LFS > edge	3	(-)	(-)
	THR _{600 s} (MJ)	3	0,5	(-)
	SMOGRA (m ² /s ²)	3	0,0	(-)
	TSP _{600 s} (m ²)	3	6,4	(-)
	Flaming droplet(s)/particle (s)	3	None	None
EN ISO 1716 ⁽¹⁾	PCS (MJ/kg) ^(a)	3	1,27	(-)
	PCS (MJ/kg) ^(b)	3	5,68	(-)
	PCS (MJ/m ²) ^(b)	3	0,34	(-)
	PCS (MJ/kg) ^(c)	3	1,38	(-)
EN ISO 1716 ⁽²⁾	PCS (MJ/kg)	3	1,27	(-)
EN ISO 1182 ⁽¹⁾⁽²⁾	ΔT (°C)	5	7,4	(-)
	Δm (%)	5	1,70	(-)
	t_f (s)	5	0,0	(-)
(-): Not applicable (a): Stone wool (b): Black glass tissue (c): The product as a whole (1): Terrawool Insulation Board TWCT50 (2): Terrawool Insulation Board TW150				

Test method	Parameter	Parameter	Compliance parameters
EN 13823 ⁽¹⁾	FIGRA _{0,2 MJ} [W/s]	0,0	≤ 20 (A1)
	LFS < edge	(-)	Yes (A1)
	THR _{600s} [MJ]	0,5	≤ 4 (A1)
	SMOGRA [m ² /s ²]	0,0	≤ 30 (A1)
	TSP _{600s} [m ²]	6,4	≤ 50 (A1)
	Flaming droplet(s)/particle (s)	None	None (A1)
EN ISO 1716 ⁽¹⁾	PCS (MJ/kg) ^(a)	1,27	≤ 2 (A1)
	PCS (MJ/m ²) ^(b)	0,34	≤ 2 (A1)
	PCS (MJ/kg) ^(c)	1,38	≤ 2 (A1)
EN ISO 1716 ⁽²⁾	PCS (MJ/kg)	1,27	≤ 2 (A1)
EN ISO 1182 ⁽¹⁾⁽²⁾	ΔT (°C)	7,4	≤ 30 (A1)
	Δm (%)	1,70	≤ 50 (A1)
	t_f (s)	0,0	= 0 (A1)
(-): Not applicable (a): Stone wool (b): Black glass tissue (c): The product as a whole (1): Terrawool Insulation Board TWCT50 (2): Terrawool Insulation Board TW150			

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.8.2 of EN 13501-1:2018

4.2. Classification

Terrawool Insulation Boards, in relation to its reaction to fire behaviour is classified:

A1

The additional classification in relation to smoke production is:

not classified

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

not classified

The format of the reaction to fire classification for *Terrawool Insulation Boards* is:

Fire behaviour		Smoke production			Flaming droplets	
A1	-	s	Not classified	,	d	Not classified

Reaction to fire classification: A1

4.3. Extended field of application

This classification is valid for the following product parameters:

Product Name	Density [kg/m ³]	Thickness [mm]	Organic matter content [kg/m ³]	Surface coating		
				Type	Mass per unit area [g/m ²]	Thickness [µm]
Terrawool Insulation Boards	≤ 50	≤ 50	≤ 1,5	Black glass tissue	60	30
	Without limitation	Without limitation	≤ 5,55	Uncoated		

EFKtjs

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.

5.2. Warning

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

Signed:

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Uğur ÇAVAŞ
Person in the charge of tests



Approved:

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Ali BAYRAKTAR
Laboratory Manager