



**Institut pro testování a certifikaci, a.s.  
Divize CSI - Centrum stavebního inženýrství**

**Fire Technical Laboratory**

**AUTHORIZED  
BODY**

**NOTIFIED  
BODY**

\*\*\*Brandschutz\*\*\*

**CLASSIFICATION OF REACTION TO FIRE IN  
ACCORDANCE WITH ČSN EN 13501-1:2019**

**Applicant:** Merino Industries Limited,  
70, KLJ Complex,  
2nd Floor, Moti Nagar,  
New Delhi -110015, INDIA

**Prepared by:** Institut pro testování a certifikaci, a.s.  
Divize CSI – Centrum stavebního  
inženýrství  
Pražská 16, 102 00 Praha 10  
Czech Republic

**Product name:** *Merino Exterior FR Grade Compact –  
6 mm thickness*

**Classification  
report No.:** PK-22-043

**Issue number:** 1/2

**Date of issue:** 17<sup>th</sup> March 2022

This classification report consists of 4 pages and may only  
be used or reproduced in its entirety.

## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

The product, *Merino Exterior FR Grade Compact – 6 mm thickness*, is defined as a type of HPL composite panel according to ČSN EN 438-7.

### Description:

The product *Merino Exterior FR Grade Compact – 6 mm thickness* is fully described in the test reports in support of the classification listed in clause 2.

## 2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
ITC a.s. - Divize CSI, AZL No. 1007.4	Merino Industries Limited	22/P093	ČSN EN ISO 11925-2
		22/P094	ČSN EN 13823

### Measured values and test results:

Test method	Parameter	Number of test	Results		
			Continuous parameter mean (m)	Compliance parameters	
ČSN EN ISO 11925-2	$F_s \leq 150 \text{ mm}^{(1)}$ ignition of the filter paper <sup>(1)</sup>	6 6	yes no	yes (B to D) no (d0)	
	$F_s \leq 150 \text{ mm}^{(2)}$ ignition of the filter paper <sup>(2)</sup>	6 6	yes no		
	ČSN EN 13823	$FIGRA_{0,2 \text{ MJ}}$ (W/s)	3	113,2	$\leq 120$ (B)
		LFS > edge	3	no	no (B, C)
$THR_{600 \text{ s}}$ (MJ)		3	5,6	$\leq 7,5$ (B)	
SMOGRA ( $\text{m}^2/\text{s}^2$ )		3	4,5	$\leq 30$ (s1)	
$TSP_{600 \text{ s}}$ ( $\text{m}^2$ )		3	35,2	$\leq 50$ (s1)	
	flaming droplets / particles	3	no	no (d0)	

(1): surface flame attack, exposition = 30 s

(2): edge flame attack, exposition = 30 s

## 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

### Reference and direct field of application

This classification has been carried out in accordance with the clause 11.6, 11.9.2 and 11.10.1 of ČSN EN 13501-1:2019.

**Classification**

The product *Merino Exterior FR Grade Compact – 6 mm thickness*, in relation to its reaction to fire behaviour is classified:

**B**

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 *Merino Exterior FR Grade Compact – 6 mm thickness* is:

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

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

**Field of application:**

This classification is also valid for the following product parameters:

- thickness  $\geq 6$  mm

This classification is valid for the following end use conditions:

- valid for interior and exterior applications
- supporting frame: valid for wood-based frame or any other frames (for example aluminium or steel frame)
- fixing: valid for fixing spacing up to 800 mm

**4. LIMITATIONS****Restrictions**

This classification report is valid, provided that the technical specifications of the product will not be changed.

**Warning**

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

Prepared:

  
.....  
Jiří Socha

Reviewed:

  
.....

Vít Slaboch  
head of laboratory