

## Declaration of Performance

Number DOP.GAR.61.EN

1. Name – identification code of the product-type

### **Fireshield Building**

*Fire rated full poplar plywood*

2. Intended use of the construction product

- For internal use as structural component in dry conditions EN 636-1

3. Name and contact address of the manufacturer:

Company name:

GRUPO GARNICA PLYWOOD, S.A.

Parque San Miguel, 10 bajos

Logroño (La Rioja) SPAIN

Manufacturing site:

GARNICA PLYWOOD VALENCIA DE DON JUAN, S.L.

Ctra. Villafer, km. 2

24200 VALENCIA DE DON JUAN (León). SPAIN

GARNICA PLYWOOD BAÑOS DE RÍO TOBÍA, S.A.U.

Ctra. De Lerma, km 56

26320 BAÑOS DE RÍO TOBÍA (La Rioja). SPAIN

5. System of assessment of constancy of performance

AVCP system 1

6. Certification body details:

- Certification body: AENOR (No. 0099)
- Certificate of constancy of performance: 0099/CPR/A65/0049 and 0099/CPR/A65/0052

7. Declared performance:

Characteristics			Performance			Technical specification
Thickness			4-7mm	7-20mm	20-45mm	
N° of layers			3-5	5-11	11-25	---
Resistant properties	Bending strength	$f_m \parallel$ (N/mm <sup>2</sup> )	10	10	10	EN 13986:2006+A1:2015
		$f_m \perp$ (N/mm <sup>2</sup> )	10	10	10	
	Compression	$f_c \parallel$ (N/mm <sup>2</sup> )	4	4	4	
		$f_c \perp$ (N/mm <sup>2</sup> )	5	5	5	
	Traction	$f_t \parallel$ (N/mm <sup>2</sup> )	4	4	4	
		$f_t \perp$ (N/mm <sup>2</sup> )	5	5	5	
	Char. Panel shear	$f_v$ (N/mm <sup>2</sup> )	4,3	4,3	4,3	
	Char. Planar shear	$f_r$ (N/mm <sup>2</sup> )	0,7	0,7	0,7	
Modulus of Elasticity properties	Bending strength	$E_m \parallel$ (N/mm <sup>2</sup> )	2500	2500	2500	
		$E_m \perp$ (N/mm <sup>2</sup> )	2500	2500	2500	
	Compression	$E_c \parallel$ (N/mm <sup>2</sup> )	1250	1250	1250	
		$E_c \perp$ (N/mm <sup>2</sup> )	2000	2000	2000	
	Traction	$E_t \parallel$ (N/mm <sup>2</sup> )	1250	1250	1250	
		$E_t \perp$ (N/mm <sup>2</sup> )	2000	2000	2000	
	Char. Panel shear	$G_v$ (N/mm <sup>2</sup> )	360	360	360	
	Char. Planar shear	$G_r$ (N/mm <sup>2</sup> )	22	22	22	
Bonding quality			Class 1			
Formaldehyde release			E1 ( $\leq 3,5$ mg/h·m <sup>2</sup> )			
Fire resistance			$\geq 4\text{mm} < 7\text{mm}$ B-s2,d0 $\geq 7\text{mm} \leq 45\text{mm}$ B-s1,d0			
Pentachlorophenol content			< 5 ppm			
Water vapour permeability			Wet: 60 $\mu$ Dry: 175 $\mu$ (Table 9 En 13986:2006+A1:2015)			
Sound absorption			Frequency range: 250 Hz to 500 Hz: 0.10 Frequency range 1000 Hz to 2000 Hz: 0.30 (Table 10 En 13986:2006+A1:2015)			
Thermal conductivity ( $\lambda$ )			0.11 W/(m·K) (Table 11 En 13986:2006+A1:2015)			
Density			440-600kg/m <sup>3</sup>			

Other performance declared:

Characteristics	Performance	Reference standard
Emission Class COV	A	DEVL1104875A
Formaldehyde release	CARB Phase 2	Tabla 1, sección 93120.2 de Phase 2, California ARB
	TSCA Title VI compliant	TSCA Title VI. Sección 770.10 (b).
	≤ 0,05ppm	EN 717-1 Compliant with Appendix 1 to the German Chemicals Prohibition Ordinance (Chem-Verbots)

Fire resistance classification is valid for the following end use conditions:

**Substrates:** Gypsum plasterboard (paper faced) and any end use substrate of Euroclasses A1 or A2-s1, d0, at least 12 mm thick, having a density  $\geq 525 \text{ Kg/m}^3$

**Fixings:** Mechanically fixed with screws

**Joints:** Vertical joints

**Void:** Without a void

In compliance with EN 13986:2004+A1:2015

The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued, according to Rule (UE) nº 305/2011, under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer:



The image shows a blue ink stamp and a handwritten signature. The stamp is rectangular and contains the following text: 'garnica' in a stylized font, 'GRUPO GARNICA PLYWOOD, S.A.' in a smaller font, and 'Parque San Miguel, s/n bajo - 26007 Logroño, La Rioja' in the smallest font. A large, loopy handwritten signature in blue ink is written over the stamp.

Logroño, 21st November 2019

Natalia Tobías, Quality Manager