

**Id code: MAD. BH-DOP-2020-01**

**Product Identification: Strutral plywood**

**Product Types:**

09mm 5 ply - 12mm 5ply - 15mm 7ply - 18mm 7ply -18mm 9ply - 20mm 9ply

**Intended uses**

Internal use as structural components in humid conditions.

**Name and contact of the Manufacturer:**

**MADEIREIRA BELO HORIZONTE Ltda.**

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**Harmonized Standard:**

**EN 13986:2004+A:2015**

**AVCP System:**

**2+**

**Notified Body:**

**1034 - HFB Engineering GMBH, Leipzig, Germany**

**Certificate:**

**1034-CPR-2645/01/2019**

Essential Characteristics	Declared Performance	Technical Specification
Release of Formoldehyde	E1 (Phenolic resin bonded	EN 13986 Annex B Note 2
Bond Quality	Class 3	EN 314-1/2 Type Testing
Density	545 Kg/m <sup>3</sup>	EN 323 Type testing
Reaction to fire	Ds-02,d0/D <sub>FL</sub> s1	EN13986 Table 8
Water vapour permeability	Wet - 70 μ / Dry - 200 μ	EN 13986 Table 9
Airborne sound insulation	R = 13 x lg (mA) + 14	EN 13986 part 5.10
Sound absorption coefficient	0,10 / 0,30	EN 13986 Table 10
Thermal conductivity	0,13 W/(m.K)	EN 13986 Table 11
Content of pentachlorophenol	< 5 ppm	EN 13986 part 5.18
Biological durability	Class 2	EN 335/EN 1099

Dimensional Tolerances	Declared Performance	Technical Specification
Lenght and width	+ 0 / - 3.0mm	EN 324-2
Squareness	+ 0 / - 1.0mm/m	
Straigthness	+ 0 / - 1.0mm/m	
Thickness	EN 324-1 / EN 315	

Product Type	Thickness		Bending Properties (N/mm <sup>2</sup> )-EN 310				Classes F/E	
			Bending strength N/mm <sup>2</sup>		Bending Stiffness N/mm <sup>2</sup>			
	Minimum	Maximum	Fk,0	FK,90	EK,0	EK,90		
9mm 5ply	8,33	9,47	38	15	4500	1350	F25/F10	E50/E15
12mm 5ply	11,24	12,56	23	15	2250	1800	F15/F10	E25/E20
15mm 7ply	14,25	15,65	23	15	3150	2250	F15/F10	E35/E25
18mm 7ply	17,3	18,7	23	15	2.250	1.800	F15/F10	E25/E20
18mm 9ply	17,3	18,7	30	15	3.150	1.800	F20/F10	E35/E20
20mm 9ply	19	20,8	30	30	4.500	3.600	F20/F20	E50/E40

For usesas STRUCTURAL COMPONENTS in dry and humid conditions

Essential Characteristics		Declared performance			Technical Specification		
Characteristic values (L5%)		See below per Type			EN 12369-2		
Product types		9mm	12mm	15mm	18mm	18mm	24mm
		5ply	5ply	5ply	7ply	9ply	9ply
Strength (N/mm <sup>2</sup> )	Parallel. //	25	15	15	15	20	20
	Perpen.  _	10	10	10	10	10	20
Stiffness (N/mm <sup>2</sup> )	Parallel. //	5000	2500	3000	3000	3000	5000
	Perpen.  _	1500	2000	2500	2000	2000	4000

September 20<sup>th</sup>, 2022

*Debera R. R. de Castro*

Technical Responsible