



**DECLARATION OF PERFORMANCE (DOP)**

**No: 086/MT-DoP/XI/2021**

1. Unique identification code of the product : **MUJ 122119 MLM NON - STRUCTURAL PLYWOOD**
2. Type and batch number : **10052019.**
3. Intended use : **Non Structural Plywood in External Conditions (EN 636-3S), internal humid condition (EN 636-2S), internal dry condition (EN 636-1S) as Structural Components, Phenol Formaldehyde, Emission class E1**
4. Manufacturer : **PT. Mujur Timber, Jalan Arah ke Barus KM 8, Sibolga, Tapanuli Tengah, Sumatera Utara - Indonesia**
5. System or systems of assessment and verification of constancy of performance : **4+**

Performed initial inspection of the manufacturing plant and of factory production control, and evaluation of factory production control.

Issued certificate :

6. Declared performance

Essential characteristics	Performance	Harmonised Technical Specification
	Thickness (mm)	
	5.5 mm	
<b>Mean of bending strength</b>		EN 13986:2004 +A1 : 2015 EN 310:1993
0° (N/mm <sup>2</sup> )	F60	
90° (N/mm <sup>2</sup> )	F50	
<b>Mean of modulus of elasticity</b>		EN 310:1993
0° (N/mm <sup>2</sup> )	E140	
90° (N/mm <sup>2</sup> )	E90	
<b>Mean of bonding quality (N/mm<sup>2</sup>)</b>	Class 3	EN 314-1:2004 & EN 314-2:1993
5.1.1	1.40	
5.1.4	0.81 (50%)	
<b>Mean of moisture content (%)</b>	10.0	EN 322:1993
<b>Mean of density (kg/m<sup>3</sup>)</b>	≥ 700	EN 323:1993
<b>Durability (moisture resistance)</b>	-	-
<b>Release of formaldehyde</b>	E1	EN 13986:2004 Annex B
<b>Reaction of fire</b>	NPD	EN 13986:200s A1 : 2015 Table 8
<b>Water vapour permeability</b>		EN 13986:200s A1 : 2015 Table 9
Wet cup (μ)	90	
Dry cup (μ)	220	
<b>Sound absorption</b>		EN 13986:200s A1 : 2015 Table 10
250 – 500 Hz	0.1	
1000 – 2000Hz	0.3	
<b>Thermal conductivity (W/(m.k))</b>	0.17	EN 13986:200s A1 : 2015 Table 11
<b>Strength and stiffness for structural use</b>	-	-
<b>Dimensional tolerance:</b>		EN 315:2000
<b>Thickness</b>	5.42 – 6.38	EN 324-1
<b>Width</b>	1216.5 – 1223.5	EN 324-1
<b>Length</b>	2436.5 – 2443.5	EN 324-1
<b>Straightness</b>	Max 0.5 - 1	EN 324-2
<b>Squareness</b>	Max 0.5	EN 324-1

7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by PT. Mujur Timber

Sibolga, 12 November 2021

**Wu Sheng Ping**

Factory Manager





## DECLARATION OF PERFORMANCE (DOP)

No: 086/MT-DoP/XI/2021

- Unique identification code of the product : **MUJ 122119 MLM STRUCTURAL PLYWOOD**
- Type and batch number : **03102020,19092020,23072020,13072020,29062020,14052020,02052020,29042020.**
- Intended use : **External Conditions (EN 636 class-3) as Structural Components, Phenol Formaldehyde, Emission class E1**
- Manufacturer : **PT. Mujur Timber, Jalan Arah ke Barus KM 8, Sibolga, Tapanuli Tengah, Sumatera Utara - Indonesia**
- System or systems of assessment and verification of constancy of performance : **2+**
- Name and identification number of the notified body : **Element Material Technology Rotterdam B.V (Identification no.: 2812 ) Zekeringstraat 33,1014 BV,Amsterdam,Netherlands**
- Performed initial inspection of the manufacturing plant and of factory production control, and evaluation of factory production control. Issued certificate : **2812-CPR-0297**
- Declared performance

Essential characteristics	Performance				Harmonised Technical Specification
	THICKNESS				
	9.0 mm	12.0 mm	18.0 mm	22.0 mm	
Mean of bending strength					EN 13986:2004 +A1 : 2015 EN 310:1993
0° (N/mm <sup>2</sup> )	F35	F38	F35	F25	
90° (N/mm <sup>2</sup> )	F30	F31	F30	F20	
Mean of modulus of elasticity					EN 310:1993
0° (N/mm <sup>2</sup> )	E80	E80	E85	E80	
90° (N/mm <sup>2</sup> )	E75	E76	E75	E70	
Mean of bonding quality (N/mm <sup>2</sup> )	Class 3	Class 3	Class 3	Class 3	EN 314-1:2004 & EN 314-2:1993
5.1.1	1.50	1.47	1.37	1.38	
5.1.4	0.81 (52%)	0.83 (51%)	0.88 (54%)	0.87 (49%)	
Mean of moisture content (%)	10.0	10.2	9.9	10.0	EN 322:1993
Mean of density (kg/m <sup>3</sup> )	≥ 700	≥ 700	≥ 700	≥ 700	EN 323:1993
Durability (moisture resistance)					-
Release of formaldehyde	E1	E1	E1	E1	EN 13986:2004 Annex B
Reaction of fire	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	EN 13986:2004 Tabel 8
Water vapour permeability					EN 13986:2004 Tabel 9
Wet cup (μ)	90	90	90	90	
Dry cup (μ)	220	220	220	220	
Sound absorption					EN 13986:2004 Tabel 10
250 – 500 Hz	0.1	0.1	0.1	0.1	
1000 – 2000Hz	0.3	0.3	0.3	0.3	
Thermal conductivity (W/(m.k))	0.17	0.17	0.17	0.17	EN 13986:2004 Tabel 11
Strength and stiffness for structural use	-	-	-	-	-
Dimensional tolerance:					EN 315:2000
Thickness	8.33 – 9.47	11.24 – 12.56	17.06 – 18.74		EN 324-1
Width	1216,5 – 1223,5	1216,5 – 1223,5	1216,5 – 1223,5	1216,5 – 1223,5	EN 324-1
Length	2436,5 – 2443,5	2436,5 – 2443,5	2436,5 – 2443,5	2436,5 – 2443,5	EN 324-1
Straightness	Max 0,5 - 1	Max 0,5 - 1	Max 0,5 - 1	Max 0,5 - 1	EN 324-2
Squareness	Max 0,5	Max 0,5	Max 0,5	Max 0,5	EN 324-1

- The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.  
Signed for and on behalf of the manufacturer by PT. Mujur Timber

Sibolga, 12 November 2021

  
Wu Sheng Ping  
Factory Manager





## DECLARATION OF PERFORMANCE (DOP)

No: 083/MT-DoP/XI/2021

1. Unique identification code of the product : MUJ 122119 MLM NON - STRUCTURAL PLYWOOD
2. Type and batch number : 13092021,06102021.
3. Intended use : *Non Structural Plywood in External Conditions (EN 636-3S), internal humid condition (EN 636-2S), internal dry condition (EN 636-1S) as Structural Components, Phenol Formaldehyde, Emission class E1*
4. Manufacturer : *PT. Mujur Timber, Jalan Arah ke Barus KM 8, Sibolga, Tapanuli Tengah, Sumatera Utara - Indonesia*
5. System or systems of assessment and verification of constancy of performance : **4+**

Performed initial inspection of the manufacturing plant and of factory production control, and evaluation of factory production control.

Issued certificate :

6. Declared performance

Essential characteristics	Performance	Harmonised Technical Specification
	Thickness (mm)	
	6.0 mm	
<b>Mean of bending strength</b>		EN 13986:2004 +A1 : 2015 EN 310:1993
0° (N/mm <sup>2</sup> )	F65	
90° (N/mm <sup>2</sup> )	F45	
<b>Mean of modulus of elasticity</b>		EN 310:1993
0° (N/mm <sup>2</sup> )	E110	
90° (N/mm <sup>2</sup> )	E75	
<b>Mean of bonding quality (N/mm<sup>2</sup>)</b>	Class 3	EN 314-1:2004 & EN 314-2:1993
5.1.1	1.36	
5.1.4	0.76 (59%)	
<b>Mean of moisture content (%)</b>	10.3	EN 322:1993
<b>Mean of density (kg/m<sup>3</sup>)</b>	≥ 700	EN 323:1993
<b>Durability (moisture resistance)</b>		-
<b>Release of formaldehyde</b>	E1	EN 13986:2004 Annex B
<b>Reaction of fire</b>	NPD	EN 13986:200s A1 : 2015 Table 8
<b>Water vapour permeability</b>		EN 13986:200s A1 : 2015 Table 9
Wet cup (μ)	90	
Dry cup (μ)	220	
<b>Sound absorption</b>		EN 13986:200s A1 : 2015 Table 10
250 – 500 Hz	0.1	
1000 – 2000Hz	0.3	
<b>Thermal conductivity (W/(m.k))</b>	0.17	EN 13986:200s A1 : 2015 Table 11
<b>Strength and stiffness for structural use</b>	-	-
<b>Dimensional tolerance:</b>		EN 315:2000
<b>Thickness</b>	5.42 – 6.38	EN 324-1
<b>Width</b>	1216.5 – 1223.5	EN 324-1
<b>Length</b>	2436.5 – 2443.5	EN 324-1
<b>Straightness</b>	Max 0.5 - 1	EN 324-2
<b>Squareness</b>	Max 0.5	EN 324-1

7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by PT. Mujur Timber

Sibolga, 12 November 2021.

**Wu Sheng Ping**

Factory Manager





**DECLARATION OF PERFORMANCE (DOP)**

**No: 083/MT-DoP/XI/2021**

1. Unique identification code of the product : **MUJ 122119 MLM Structural Plywood**
2. Type and batch number : **22092021,15102021,14102021,08092021,07092021,01092021,31082021,30082021,28082021,27082021,12012021,11012021.**
3. Intended use : **External Conditions (EN636 Class-3) as Structural Components, Phenol Formaldehyde, Emission class E1**
4. Manufacturer : **PT. Mujur Timber, Jalan Arah ke Barus KM 8, Sibolga, Tapanuli Tengah, Sumatera Utara - Indonesia**
5. System or systems of assessment and verification of constancy of performance : **2+**
6. Name and identification number of the notified body : **Element Material Technology Rotterdam B.V (Identification no.: 2812 ) Zekeringstraat 33,1014 BV,Amsterdam,Netherlands**

Performed initial inspection of the manufacturing plant and of factory production control, and evaluation of factory production control.

Issued certificate : **2812-CPR-0297**

**7. Declared performance**

Essential characteristics	Performance				Harmonised Technical Specification
	Thickness (mm)				
	9.0 mm	12.0 mm	18.0 mm	25.0 mm	
<b>Mean of bending strength</b>					EN 310:1993
0° (N/mm <sup>2</sup> )	F40	F40	F30	F30	
90° (N/mm <sup>2</sup> )	F32	F30	F30	F27	
<b>Mean of modulus of elasticity</b>					EN 310:1993
0° (N/mm <sup>2</sup> )	E90	E90	E90	E86	
90° (N/mm <sup>2</sup> )	E85	E90	E80	E76	
<b>Mean of bonding quality (N/mm<sup>2</sup>)</b>	Class 3	Class 3	Class 3	Class 3	EN 314-1:2004 & EN314-2:1993
5.1.1	1.51	1.53	2.18	1.38	
5.1.4	0.85 (61%)	1.20	1.73	0.94 (56%)	
<b>Mean of moisture content (%)</b>	10.0	10.4	10.3	10.2	EN 322:1993
<b>Mean of density (kg/m<sup>3</sup>)</b>	≥ 700	≥ 700	≥ 700	≥ 700	EN 323:1993
<b>Durability (moisture resistance)</b>					
<b>Release of formaldehyde</b>	E1	E1	E1	E1	EN 13986:2004 Annex B
<b>Reaction of fire</b>	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	EN 13986:2004 Tabel 8
<b>Water vapour permeability</b>					EN 13986:2004 Tabel 9
Wet cup (μ)	90	90	90	110	
Dry cup (μ)	220	220	220	220	
<b>Sound absorption</b>					EN 13986:2004 Tabel 10
250 – 500 Hz	0.1	0.1	0.1	0.1	
1000 – 2000Hz	0.3	0.3	0.3	0.3	
<b>Thermal conductivity (W/(m.k))</b>	0.17	0.17	0.17	0.17	EN 13986:2004 Tabel 11
<b>Strength and stiffness for structural use</b>					
<b>Dimensional Tolerance :</b>					EN 315:2000
Thickness (mm)	8.33 – 9.47	11.24 – 12.56	17.06 – 18.74	23.85 – 25.95	EN 324-1
Width (mm)	1216,5 – 1 1223,5	1216,5 – 1 1223,5	1216,5 – 1223,5	1216,5 – 1223,5	EN 324-1
Length (mm)	2436,5 – 2443,5	2436,5 – 2443,5	2436,5 – 2443,5	2436,5 – 2443,5	EN 324-1
Straightness (mm/m)	Max 0,5 - 1	Max 0,5 - 1	Max 0,5 - 1	Max 0,5 - 1	EN 324-2
Squareness (mm/m)	Max 0,5	Max 0,5	Max 0,5	Max 0,5	EN 324-1

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by PT. Mujur Timber

Sibolga, 12 November 2021

**Wu Sheng Ping**  
Factory Manager

Notice : Product is identical to the production of Marine plywood according to BS 1088 : 2018 and the additional information contained in the corresponding document is in accordance to section 6.2 of the standard



**Marine Marking Documentation**  
**According to Section 6.2 of the Standard**

Contract No. : MUJ 122119 MLM Meyer  
Buyer. : Sustainable Timber Direct  
Quantity : 190 Crate = 10.588 Pcs = 509.0328 Cbm.  
Destination : Tilbury.

Marking of goods

- Type of Product : Marine Plywood BS 1088 : 2018
- Adhesive : Phenolic resin, BS EN 314-2 Bonding Class 3
- Construction : Balanced (Not Applicable)
- Preservative treatment : Not Applicable
- Nominal panel thickness : 6.0 mm, 9.0 mm, 12.0 mm, 18.0 mm, and 25.0 mm
- Composition of thickness

NO.	THICKNESS OF PLYWOOD	Σ PLY	COMPOSITION OF VENEER THICKNESS	SPECIES GRAIN VENEER
1	6.0 mm	3	1.3+3.8+1.3 = 6.4	FB = Keruing SC & LC = Keruing or Meranti
2	9.0 mm	5	1.2+2.4+2.4+2.4+1.2 = 9.6	
3	12.0 mm	5	1.2+3.4+3.4+3.4+1.2 = 12.6	
4	18.0 mm	9	1.2+2.4+2.4+2.4+2.4+2.4+2.4+2.4+1.2 = 19.2	
5	25.0 mm	9	1.2+3.4+3.4+3.4+3.4+3.4+3.4+3.4+1.2= 26.2	

- Manufacture name : PT. Mujur Timber
- Country manufacture : Made in Indonesia
- Panel Type : Standard Marine ( Density ≥ 500 kg/m<sup>3</sup>)
- Species ( BS EN 350-2 ) : Keruing (*Dypterocarpusspp.*) and Meranti (*Shoreaspp.*)
- Issued certificate : 3<sup>RD</sup> Party Verified No. MP 311002381/1/2018

This declaration complements Declaration of Performance Marine Plywood and become an integral attachment.

Sibolga, 12 November 2021

**Wu Sheng Ping**  
Factory Manager