

Malvaux

M A R I N E



MALVAUX MARINE

LEADER IN BOAT INTERIORS AND PANELS FOR THE
LEISURE AND BOATING INDUSTRIES

BRAND OF THE GROUP

Malvaux

SUBLIME LE BOIS DEPUIS 1928

Malvaux Marine is a brand of the Malvaux group. The brand is leader in boat interiors and panels for the leisure and boating industries.

In addition to our rich collection of fine wood species, stamped with eco-labels, we benefit from a modern and efficient machining center that enables us to use multiple materials and all types of finishes.

In collaboration with our design office, we coordinate and manufacture all furnitures and parts in our workshops.

Malvaux
MARINE

RAW PLYWOOD

OKOUME PLYWOOD (CTBX and BS1088)

- **Dimensions** : 2500 x 1220 mm and 3100 x 1530 mm
- **Thicknesses** : 5, 10, 12, 15, 18, 22, 25, 30, 35 and 40 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :



Thickness (mm)	Number of plies	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
		Length	Width	Length	Width
5	3	5930	1710	59	29
10	5	4600	4170	45	46
12	7	4150	4500	41	49
15	7	4300	4480	42	47
18	9	4430	4010	40	42
22	11	4530	4750	39	45
25	11	4700	4810	35	39
30	13	4470	4650	38	40
35	15	4450	4600	35	38
40	17	4640	4790	36	37

- **Volumetric mass** (Norm EN 323) : 510 kg/m³ ± 30
- **Glue class** (Norm EN 314) : Class 2 and Class 3
- **Mean screw holding strength** ⁽²⁾ : Face : 1050N - Edge : 980N
- **Application** : Designed for structural application.

MALVO FLAM EXCELLENCE

- **Dimensions** : 2500 x 1220 mm and 3100 x 1530 mm
- **Thicknesses** : 5, 10, 12, 15, 18, 25 and 30 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :



Thickness (mm)	Number of plies	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
		Length	Width	Length	Width
5	5	4770	3500	56	48
10	9	4340	4530	41	49
12	9	4590	4570	47	47
15	11	4540	4420	41	43
18	13	4610	4510	40	43
25	19	4750	4490	38	38
30	19	4500	4380	38	39

- **Volumetric mass** (Norm EN 323) : 580 kg/m³ ± 30
- **Glue class** (Norm EN 314) : Class 3
- **Fire rating** (Norm NFP 92501) : M1
- **Mean screw holding strength** ⁽²⁾ : Face : 1090N - Edge : 990N
- **Application** : Designed for structural application.
- **Product benefit** : Excellent fire resistance.

OKOUME EPICEA TWIN PLY

- **Dimensions** : 2500 x 1220 mm and 3100 x 1530 mm
- **Thicknesses** : 5, 8, 10, 12, 15, 18, 22, 25, 30, 35 and 40 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :



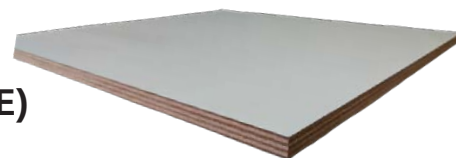
Thickness (mm)	Number of plies	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
		Length	Width	Length	Width
15	7	3900	4440	30	33

- **Volumetric mass** (Norm EN 323) : 500 kg/m³ ± 30
- **Glue class** (Norm EN 314) : Class 2
- **Mean screw holding strength** ⁽²⁾ : Face : 980N - Edge : 960N
- **Application** : Designed for structural application.

FACED PLY

FACED PLY (2 FACES)

- **Dimensions** : 2500 x 1220 mm and 3040 x 1290 mm
- **Thicknesses** : 6.6 ; 9.6 ; 11.6 ; 13.6 ; 16.6 ; 19.6 ; 23.6 ; 31.6 ; 36.6 and 41.6 mm



FACED PLY (1 FACE) + WOOD VENEER (1 FACE)

- **Dimensions** : 2500 x 1220 mm and 3040 x 1290 mm
- **Thicknesses** : 6.6 ; 9.6 ; 11.6 ; 13.6 ; 16.6 ; 19.6 ; 23.6 ; 31.6 ; 36.6 and 41.6 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :

Ply with laminate on the visible surface and a decorative kraft on the reverse.

Thickness (mm)	Face Awl	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
		Length	Width	Length	Width
16.6	Laminate	6360	5082	64.4	56.8
	Veneer	6300	5040	61.4	54.4

DECORATIVE PLY – WOOD VENEER

DECORATIVE PLY – WOOD VENEER

- **Dimensions** : 2500 x 1220 mm and 3100 x 1530 mm
- **Thicknesses** : 5, 10, 12, 15, 18, 22, 25, 30, 35 and 40 mm

MALVO PHON



- **Nature** : Okoumé / Birch / Dense medium
- **Dimensions** : 2500 x 1220 mm and 3100 x 1530 mm
- **Thicknesses** : 15, 18 and 22 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :

Épaisseur (mm)	Volumetric mass (kg/m³)	Number of plies	Modulus of elasticity (N/mm²)		Breaking point (N/mm²)	
			Length	Width	Length	Width
15	1050	11	3600	4600	37	57
18	970	11	4200	4700	41	50
22	920	13	3900	5400	36	56

- **Glue class** (Norm EN 314) : Class 3
- **Fire rating** (Norm NFP 92501) : M2
- **Index of noise reduction** (Norm ISO 140-3) :
 - Malvo-Phon 15mm : $R_w (C ; C_{tr}) = 34 (-1 ; -2)$ dB
 - Malvo-Phon 22mm : $R_w (C ; C_{tr}) = 35 (-1 ; -3)$ dB
- **Application** : Designed for structural application.
- **Product benefit** : Excellent insulation from airborne noises.

MALVO CORK



- **Nature** : Okoumé / Cork
- **Dimensions** ⁽³⁾ : 2480 x 1200 mm and 3080 x 1510 mm
- **Thicknesses** in mm and **Volumetric mass** in kg/m³ ⁽³⁾ (Norm EN 323) :

Total thickness	12	15	18	25	40
Ply thickness	3	3	3	3	3
Cork thickness	6	9	12	19	34
Volumetric mass (± 30)	370	330	310	270	230
Masse by area (± 0.3)	4.5	5	5.6	6.8	9.2

- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :

Thickness (mm)	Modulus of elasticity (N/mm²)		Breaking point (N/mm²)	
	Length	Width	Length	Width
15	1470	530	14	9

- **Glue class** (Norm EN 314) : Class 2
- **Mean screw holding strength** ⁽²⁾ (EN 320) : Face : 370N - Edge : 80N
- **Product benefit** : Excellent insulation from impact noises.

MALVO PU FOAM

- **Nature** : Okoumé / PU Foam 35kg/m³
- **Dimensions**⁽³⁾ : 2480 x 1200 mm and 3080 x 1510 mm
- **Thicknesses** in mm and **Volumetric mass** in kg/m³⁽³⁾ (Norm EN 323) :



Total thickness	12	15	18	25	40
Ply thickness	3	3	3	3	3
Foam thickness	6	9	12	19	34
Volumetric mass (± 30)	310	260	220	180	130
Masse by area (± 0.3)	3.7	3.9	4	4.5	5.2

- **Mechanical flexibility characteristics**⁽¹⁾ (Norm EN 310) :

Thickness (mm)	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
	Length	Width	Length	Width
18	890	500	10.8	7.9
40	340	300	5.1	3.7

- **Peel strength** (Norm EN 311) : Class 2
- **Mean screw holding strength**⁽²⁾ : Face : 290N - Edge : 12N
- **Product benefits** : Lightweight and excellent thermal resistance.

MALVO PET FOAM 150 kg/m³

- **Nature** : Okoumé / Recycled PET Foam 150kg/m³
- **Dimensions**⁽³⁾ : 2480 x 1200 mm and 3080 x 1510 mm
- **Thicknesses** in mm and **Volumetric mass** in kg/m³⁽³⁾ (Norm EN 323) :



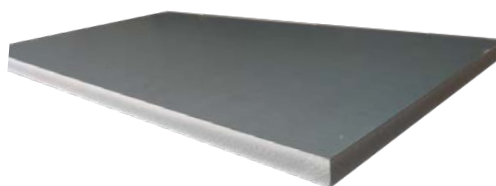
Total thickness	12	15	18	25	40
Ply thickness	3	3	3	3	3
Foam thickness	6	9	12	19	34
Volumetric mass (± 30)	370	330	310	270	230
Masse by area (± 0.3)	4.5	5.0	5.6	6.8	9.2

- **Mechanical flexibility characteristics**⁽¹⁾ (Norm EN 310) :

Thickness (mm)	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
	Length	Width	Length	Width
18	3340	2380	28.0	20.6

- **Peel strength** (Norm EN 311) : Class 2
- **Mean screw holding strength**⁽²⁾ : Face : 480N - Edge : 230N
- **Application** : Designed for structural application.

RENOZIST



- **Nature** : Expanded PVC
- **Dimensions** : 2500 x 1220 mm
- **Thicknesses** : 15, 10 and 5 mm
- **Mechanical flexibility characteristics** ⁽¹⁾ (Norm EN 310) :

Thickness (mm)	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
	Length	Width	Length	Width
5	1270	680	17	11
10	850	730	12	12
15	615	160	11	7

- **Volumetric mass** (Norm EN 323) : 480 kg/m³ ± 30
- **Mean screw holding strength** ⁽²⁾ : Face : 350N - Edge : 275N
- **Product benefits** : Lightweight and excellent humidity resistance.

MALVO NIDA POLYPROPYLENE



- **Nature** : Okoumé / Polypropylene honeycomb 65kg/m³
- **Dimensions**⁽³⁾ : 2480 x 1200 mm
- **Thicknesses** in mm and **Volumetric mass** in kg/m³⁽³⁾ (Norm EN 323) :

Total thickness	12	15	18	25	40
Ply thickness	3	3	3	3	3
Honeycomb thickness	6	9	12	19	34
Volumetric mass (± 30)	310	260	230	180	140
Mass by area (± 0.3)	3.5	3.7	3.9	4.4	5.6

- **Mechanical flexibility characteristics**⁽¹⁾ (Norm EN 310) :

Thickness (mm)	Modulus of elasticity (N/mm ²)		Breaking point (N/mm ²)	
	Length	Width	Length	Width
18	1980	1910	16.4	14.6

- **Glue class - Peel strength** (Norm EN 311) : Class 2
- **Mean screw strength in crimped (and glued) nut with threaded sleeve** (EN 320) : 520N
- **Product benefits** : Lightweight and stiff panel.

NB : The okoumé faces are Quality II. The 'back' faces are Quality III.

The dimensional tolerances of the plywoods meet Norms EN315 and EN 324.

(1) : The mechanical flexibility characteristics are obtained over a running average (up to 10 tests) on modulus of elasticity and breaking points.

(2) : Tear resistance of a 4mm dia screw with a 15mm thread inserted into a 2mm pre-drilled hole.

(3) : The dimensions of sandwich panels are representative for raw panels (okoumé faces) or wood veneers. For panels containing at least 1 laminate, the dimensions of the large format panels will be reduced to 3040x1280mm. The mechanical characteristics will also be impacted as observed on the values of laminated plywood.

Images sources :

Fountaine Pajot | Elba 45 - MY6 - MY44 | @Gilles Martin Raget

Neel Trimarans | Neel 65 | @Olivier Blanchet

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