



N° 002/01-2022
Version :01-EN



DECLARATION OF PERFORMANCE (DOP)

MARINE PLYWOOD

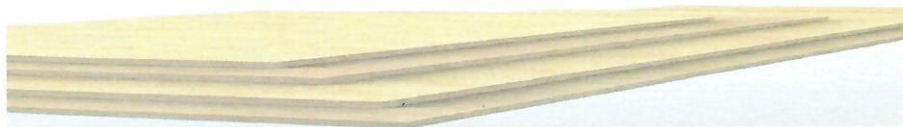
Manufacturer	STAR PLY GABON Address: BP 1024 B2/B1 GSEZ Libreville -Gabon Email : starplygabon@gmail.com			
Certificates	CE N°:0380-CPR-800			
	CTB-X: N°80			
	KOMO : 21100			
	Mill N°ICTT-19076			
Harmonised standard	BS EN 13986:2004+A1:2015			
Evaluation system	2+			
Type of use according BS 1088:2018	Structural use			
Specie and appearance quality of veneer standard BS EN 635-2	100% Okoume			
Durability of specie according BS EN 350:2016	Face quality and face down B/ BB and II/II			
Sizes	1 to 4			
Thickness (mm)	2440 x 1220 ,2500 X 1220 mm and 3100 X 1530 mm			
Dimensional tolerance standard BS EN 315:2020 and EN 324 1 and 2	2,7.4.6.9.12.15.18.22.25.28.30			
Thickness deviation in the same plywood According BS EN 315:2000	Length and width: $\pm 3,5$ mm Edge straightness and squaring:1mm/m Thickness deviation in the same plywood : 0,6 mm ≤ 25 (Thickness plywood) 0,8 mm $\times 25$ (Thickness plywood)			
Density Standard BS EN 323 :	500 kg /m3 ± 30			
Gluing class BS EN 314-1 and 2	Class 3 for use in an exterior environment According BS EN 636-3 S			
type of glue according BS 1203	phenol exterior			
Formaldehyde release EN ISO 12460-3 :2016	E1 -Release $\leq 3,5$ mg/M2 h			
Bonding Quality Standards	Thickness (mm)	Number plies	Tensile stress (N/mm2)	Percentage of apparent wood rupture (%)
BS EN 314-1 and 2	2,7	3	0.92	70
	4	3	1.5	40
	6	5	1.32	75
	9	5	1.86	58
	12	7	0.96	70
	15	7	1.41	60
	18	9	1.12	65
	22	9	1.32	55
	25	11	1.71	70
	28	11	1.32	45
	30	17	1.32	75

Manager quality and certifications
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Mechanical characteristic Standard BS EN 310	Thickness (mm)	Number plies	Modulus of elasticity average (N/mm ²)		Tensile Strength average (N/mm ²)	
			Along grain	Short grain	Along	across
	6	5	4200	3900	39.2	42.3
	9	5	4295	4099	40.1	40.6
	12	5	4010	4200	40.2	41.2
	15	7	4800	4200	39.8	45.9
	18	7	5300	4200	39.9	45.8
	22	9	4800	4080	40.7	49.6
	25	11	4320	3800	39.7	43.2
	28	17	4430	4100	39.1	45.2
	30	19	4300	3900	60.8	46.8
Sound absorption	NPD					

reaction to fire	D,s2-d0 for the thicknesses ≥ 9mm					
	According norm EN 13986:2004+A1 2015 (§ 5.8)					
	construction plywood					
Nominal Thickness plywood	Face		Ames(panel)		Core (Interior)	
	Thickness(m)	number of plies(mm)	thickness(mm)	number of plies	Thickness (cm)	number of plies
2.7	0.9	2			1.0	1
4	1.2	2			2.0	1
6	0.9	2	1.8	1	1.8	1
9	1.2	2	2.0	1	2.5	2
12	1.2	2	2.0	2	2.0	3
15	1.2	2	3.0	2	2.5	3
18	1.2	2	2.6	3	2.0	4
22	1.2	2	3.1	3	2.6	4
25	1.2	2	3.1	4	2.1	5
28	1.2	2	3.1	4	2.8	5
30	1.2	2	3.1	4	3.1	5

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