DECLARATION OF PERFORMANCE (DOP) NO: 01/KB/I/2014 (EXT)

1. Unique identification code of the product: Structural plywood

2. Type and batch number: Indonesian Hardwood Plywood, External gluing quality

3. Intended Use: External dry conditions as srtuctural components, Emission class E1

- 4. Manufacturer: PT.Balikpapan Forest Industries, Penajam Paser Utara East Kalimantan, Indonesia
- 5. System or system of assessment and verification of constancy of performance:2+
- 6. Name and identification number of the notified body:
 BM TRADA Certification Ltd. (Identification no:1224)
 Stocking Lane, hughenden Valley,
 High wycombe, Bucks, HP14 4ND, UK

Notified Factory Production Control Body 1224, performed initial inspection of the manufacturing plant and of factory production control, continuous surveillance, assessment and evalution of factory production control and issued the certificate of conformity of the factory production control under system 2+ and issued the certificate of the conformity of the factory production control: 1224-CPR-0027

7. Declared performance (1)

8 17

Essential Characteristics			Harmonised Technical Specification				
	4.0	6.0	8.0	9.0	12.0	15.0	
Mean of bending strength							
0°(N/mm²)	F70	F40	F40	F30	F40	F30	EN 310: 1993
90°(N/mm²)	F30	F40	F30	F30	F30	F40	
Mean of modulus of elasticity							
0°(N/mm²)	E140	E90	E80	E50	E90	E60	EN 310: 1993
90°(N/mm²)	E25	E80	E60	E50	E60	E70	
Mean of bonding quality(N/mm²)	1.66	1.50	1.65	1.69	1.67	1.67	EN 314-1:2004
Mean of moisture content(%)	9.5	9.5	9.5	9.5	9.8	9.6	EN 322: 1993
Mean of density(Kg/m³)	609	619	674	686	686	690	EN 323: 1993
Durability (moisture resistance)	NPD	NPD	NPD	NPD	NPD	NPD	
Release of formaldehyde	E1	E1	E1	E1	E1	E1	EN 717-2:1994
Reaction of fire	NPD	NPD	NPD	D-s2,d0	D-s2,d0	D-s2,d0	EN 13986:2004 Tabel 8
water vapour permeability							
Wet cup (µ)	70	70	70	70	70	70	EN 13986:2004 Tabel 9
Dry cup (µ)	200	200	200	200	200	200	
Sound absorption							
250-500Hz	0.10	0.10	0.10	0.10	0.10	0.10	EN 13986:2004 Tabel 10
1000-2000Hz	0.30	0.30	0.30	0.30	0.30	0.30	
Thermal conductivity(W/(m.k))	0.13	0.13	0.13	0.13	0.13	0.13	EN 13986:2004 Tabel 11
Strength and stiffness for	NDD	NPD	NPD	NPD	NPD	NPD	
structural use	NPD						
Mechanical durability	NPD	NPD	NPD	NPD	NPD	NPD	
Biological durability	NPD	NPD	NPD	NPD	NPD	NPD	-
content of pentachlorophenol	NPD	NPD	NPD	NPD	NPD	NPD	•

7. Declared performance (2)

Essential Characteristics		р	Harmonised Technical			
		Th	Specification			
	18.0	21.0	24.0	27.0	30.0	
Mean of bending strength						
0°(N/mm²)	F40	F30	F30	F25	F30	EN 310: 1993
90°(N/mm²)	F40	F40	F50	F30	F40	
Mean of modulus of elasticity						
0°(N/mm²)	E80	E70	E60	E50	E70	EN 310: 1993
90°(N/mm²)	E60	E100	E100	E70	E100	
Mean of bonding quality(N/mm²)	1.60	1.65	1.59	1.61	1.64	EN 314-1:2004
Mean of moisture content(%)	9.8	10.5	9.2	10.2	10.3	EN 322: 1993
Mean of density(Kg/m³)	696	722	733	737	741	EN 323: 1993
Durability (moisture resistance)	NPD	NPD	NPD	NPD	NPD	**
Release of formaldehyde	E1	E1	E1	E1	E1	EN 717-2:1994
Reaction of fire	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	EN 13986:2004 Tabel 8
water vapour permeability						
Wet cup (µ)	70	90	90	90	90	EN 13986:2004 Tabel 9
Dry cup (µ)	200	220	220	220	220	
Sound absorption						
250-500Hz	0.10	0.10	0.10	0.10	0.10	EN 13986:2004 Tabel 10
1000-2000Hz	0.30	0.30	0.30	0.30	0.30	
Thermal conductivity(W/(m.k))	0.13	0.17	0.17	0.17	0.17	EN 13986:2004 Tabel 11
Strength and stiffness for	NPD	NPD	NPD	NPD	NPD	
structural use	INFO	INFD	INFD	INFO	INFD	-
Mechanical durability	NPD	NPD	NPD	NPD	NPD	-
Biological durability	NPD	NPD	NPD	NPD	NPD	-
content of pentachlorophenol	NPD	NPD	NPD	NPD	NPD	-

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 id issued under the sole responsibility of the manufacturer identified in point 4.

Acknowledged by

Management Representative

Jenebora, January 19, 2014 Prepared by

1.000

Lee Bkeong Ryong

OQ Manager