



VERLIJMD RAAMHOUT



IDEALE OPLOSSING VOOR BINNEN- EN BUITENSCHRIJNWERK

VOORDELEN

- * Hoge stabiliteit door verlijming en vingerlas
- * Hoog rendement

SERVICE

- * Ruime voorraad van houtsoorten, afmetingen en lengtes
- * Maatwerk mogelijk

ONDERSCHEIDEND

- * Gespecialiseerd in hoogwaardig tropisch hardhout
- * Ruime mogelijkheden in BEN conform raamhout



Het keurmerk voor
verantwoord bosbeheer



www.pefc.be



DENDERWOOD

VERLIJMD RAAMHOUT



DDW

Woordenlijst

DKD/DKKD	: Massieve buitenlamellen, middenlaag kan gevingerlast zijn
KKK/KKKK	: Alle lagen gevingerlast
SFJ	: Massief gevingerlast
KKK-LP	: Alle lagen gevingerlast, lengte buitenlamellen 1000 à 1500mm
2F	: 2 zijden foutvrij
3F	: 3 zijden foutvrij
4F	: 4 zijden foutvrij
FSC®	: Forest Stewardship Council (eco-certificaat)
PEFC	: Programme for the endorsement of forest certification
FLEGT	: Forest Law Enforcement, Governance and Trade (Indonesisch- Europees akkoord over legaal & ecologisch hout)
CITES	: Convention on International Trade in Endangered Species (handel enkel mogelijk met vergunning - quotasysteem)
EUTR	: European Union Timber Regulation (Europese houtverordening) stelsel van zorgvuldigheidseisen om illegaal hout te bannen

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ACACIA (Acacia mangium)
Maleisië

Klasse III-IV
+/- 550 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
72	88	KKK	5900	EUTR

AFRIKAANSE MAHONIE

Klasse III
+/- 550 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	86	KKK	5900	EUTR
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63	125	KKK	5900	EUTR
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AFRORMOSIA (Periscopsis E/M)
Kameroen, Gabon, DRC

Klasse I
+/-750 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	125	KKK	5900	CITES
63	145	KKK	5900	CITES

72	86	DKD	1200-2500	CITES
72	115	DKD	1600-3900	CITES
72	125	DKD	1500-3300	CITES
72	165	DKD	1200-2200	CITES

96	86	DKD	800-3300	CITES
96	115	DKD	900-2700	CITES
96	145	DKD	1200-1800	CITES

BOSSE (Guarea cedrata)
Kameroen

Klasse II
+/- 750 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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72	105	DKD	2100-2300	EUTR
72	124	DKD	2200	EUTR

DOUSSIE (Afzelia bipindensis)
Kameroen, Gabon, DRC

Klasse I
 +/-800 kg/m³



Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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72	86	DKD	2150-2750	EUTR
72	125	DKD	1850-3650	EUTR
72	145	DKD	2650	EUTR

72	86	KKK	6000	EUTR
72	125	KKK	6000	EUTR
72	145	KKK	6000	EUTR

96	115	KKK	6000	EUTR
96	125	KKK	6000	EUTR
96	145	KKK	6000	EUTR

DOUSSIE (Afzelia bipindensis)
Kameroen, Gabon, DRC

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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72	86	DKD	2150-2750	<u>FSC 100 %</u>
72	124	DKD	2150-2750	<u>FSC 100 %</u>
72	144	VV-MP	2400	<u>FSC 100 %</u>
72	240	VV-MP	2400	<u>FSC 100 %</u>

72	124	KKK	6000	<u>FSC 100 %</u>
92	86	KKK	6000	<u>FSC 100 %</u>

VLIESGEVELS

58	250	VV-MP	6000	EUTR
58	280	VV-MP	6000	EUTR
72	145	VV-MP	6000	EUTR
72	300	VV-MP	6000	EUTR

EIKEN - WIT AMERIKAANS (Quercus Alba)
Verenigde Staten

Klasse II-III

 +/- 740 kg/m³

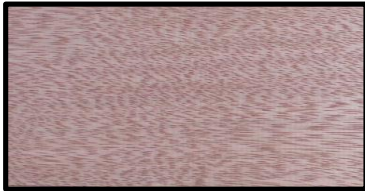

Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	145	DKD	2600	EUTR
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GOMBE (*Didelotia africana*)
Kameroen, Gabon, DRC

Klasse IV
 +/- 640 kg/m³



FSC 100%

Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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38,2	42	DD	2220	<u>FSC 100 %</u>
46,2	61	DD	2220	<u>FSC 100 %</u>
46	85	DD	3600	<u>FSC 100 %</u>

72	125	DKD	1250-3600	<u>FSC 100 %</u>
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IROKO (*Milicia excelsa*)
Kameroen, Gabon, DRC

Klasse I-II
 +/- 650 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	105	DKD	950-2300	EUTR
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72	105	DKD	1000-2600	EUTR
72	125	DKD	950-3700	EUTR
72	125	KKK	5900	EUTR

KOTIBE (*Nesogordonia papaverifera*)
Kameroen, Gabon, DRC

Klasse III
 +/- 730 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	105	DKD	2200-2500	EUTR
63	124	DKD	2200-2500	EUTR

72	86	DKD	2000-2700	EUTR
72	105	DKD	2000-2600	EUTR
72	145	DKD	2000-2600	EUTR



LARIKS (Larix decidua)
Europa

 Klasse III
 +/- 650 kg/m³

FSC 100%

Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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72	86	KKK	6000	<u>FSC 100 %</u>
72	125	KKK	6000	<u>FSC 100 %</u>
72	145	KKK	6000	<u>FSC 100 %</u>

72	86	KKK-LP	6000	<u>FSC 100 %</u>
72	125	KKK-LP	6000	<u>FSC 100 %</u>
72	145	KKK-LP	6000	<u>FSC 100 %</u>



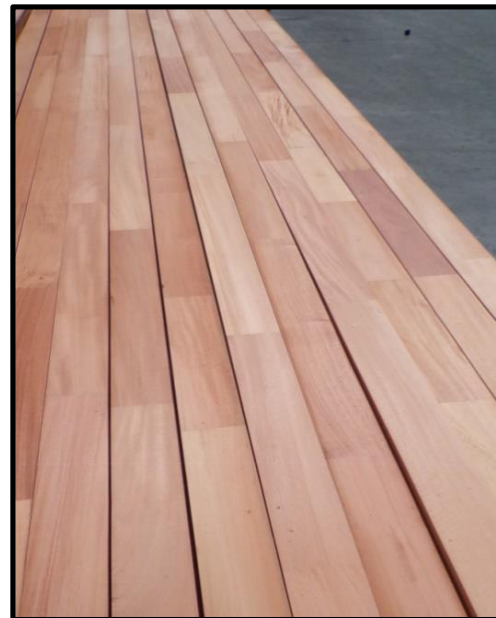
MAHOGANY (Swietenia macrophilia King Acajou/Mongo)

 Klasse II
 +/- 540 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	86	KKK	5900	FLEGT
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72	105	KKK	5900	FLEGT
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DARK RED MERANTI - 2 face clear - QFR

 +/- 480 kg/m³
Maleisië, Indonesië


Dikte mm	Breedte mm	Samenstelling	Lengte	Eco-cert.
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63	75	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	95	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	105	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	115	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	125	KKK	5900	EUTR <u>100 % PEFC certified</u>

72	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	95	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	115	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	125	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	145	KKK	5900	EUTR <u>100 % PEFC certified</u>

MERANTI GERUTU (Parashorea)
Maleisië, Indonesië

Klasse III
+/- 750 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte	Eco-cert.
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63	86	DKD	1000-3900	EUTR 100 % PEFC certified
63	86	KKK	5900	EUTR 100 % PEFC certified

72	86	DKD	2000-3900	EUTR 100 % PEFC certified
72	105	DKD	2450	EUTR 100 % PEFC certified
72	124	DKD	900-3300	EUTR 100 % PEFC certified

72	86	KKK	5900	EUTR 100 % PEFC certified
72	115	KKK	5900	EUTR 100 % PEFC certified
72	125	KKK	5900	EUTR 100 % PEFC certified
72	145	KKK	5900	EUTR 100 % PEFC certified

92	125	KKKK	3300	EUTR 100 % PEFC certified
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MERANTI GERUTU (Parashorea)

Maleisië, Indonesië

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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96	86	KKKK	2100-3900	EUTR <u>100 % PEFC certified</u>
96	115	KKKK	2000-3900	EUTR <u>100 % PEFC certified</u>
96	124	KKKK	2100-3600	EUTR <u>100 % PEFC certified</u>

DARK RED MERANTI NEMESU (Shorea pauciflora) - 3 face clear
Maleisië

Klasse II-III

 +/- 650 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte	Eco-cert.
----------	------------	---------------	--------	-----------

63	65	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	75	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	96	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	115	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	125	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	145	KKK	5900	EUTR <u>100 % PEFC certified</u>

72	86	DKD	2100-3000	EUTR <u>100 % PEFC certified</u>
72	125	DKD	1000-3600	EUTR <u>100 % PEFC certified</u>
72	125	DKD	2100-3000	EUTR <u>100 % PEFC certified</u>
72	145	DKD	1000-3600	EUTR <u>100 % PEFC certified</u>
72	145	DKD	2200-3000	EUTR <u>100 % PEFC certified</u>

DARK RED MERANTI NEMESU (Shorea pauciflora) - 3 face clear
Maleisië

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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72	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	86	KKK	5900	EUTR <u>100 % PEFC certified</u> KOMO
72	86	KKK-LP	5900	EUTR <u>100 % PEFC certified</u>
72	125	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	145	KKK	5900	EUTR <u>100 % PEFC certified</u>

96	86	DKD/DKKD	1200-3600	EUTR <u>100 % PEFC certified</u>
96	86	DKD/DKKD	2100-3000	EUTR <u>100 % PEFC certified</u>
96	124	DKD/DKKD	2100-3000	EUTR <u>100 % PEFC certified</u>
96	145	DKD/DKKD	2200-3000	EUTR <u>100 % PEFC certified</u>

96	86	KKKK	5900	EUTR <u>100 % PEFC certified</u>
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DARK RED MERANTI NEMESU (Shorea pauciflora) - 4 face clear
Maleisië

 Klasse II-III
 +/- 650 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	75	KKK	5900	EUTR 100 % PEFC certified
63	95	KKK	5900	EUTR 100 % PEFC certified

72	86	KKK	5900	EUTR 100 % PEFC certified
72	86	KKK-LP	5900	EUTR 100 % PEFC certified



DARK RED MERANTI SERAYA - 3 face clear
Maleisië

 +/- 500 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte	Eco-cert.
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62	86	SFJ	5900	EUTR <u>100 % PEFC certified</u>
62	86	solid	2100/2400	EUTR <u>100 % PEFC certified</u>
63	65	DKD	2000-4200	EUTR <u>100 % PEFC certified</u>
63	75	DKD	2100	EUTR <u>100 % PEFC certified</u>
63	75	DKD	2300-3000	EUTR <u>100 % PEFC certified</u>
63	86	DKD	2100	EUTR <u>100 % PEFC certified</u>
63	86	DKD	2300-3000	EUTR <u>100 % PEFC certified</u>
63	95	DKD	2100-3000	EUTR <u>100 % PEFC certified</u>
63	95	DKD	2300-3900	EUTR <u>100 % PEFC certified</u>
63	105	DKD	2100-2400	EUTR <u>100 % PEFC certified</u>
63	115	DKD	2000-3900	EUTR <u>100 % PEFC certified</u>
63	125	DKD	2100-3000	EUTR <u>100 % PEFC certified</u>
63	145	DKD	1800-2100	EUTR <u>100 % PEFC certified</u>
63	145	DKD	2000-3900	EUTR <u>100 % PEFC certified</u>

DARK RED MERANTI SERAYA - 3 face clear
Maleisië, Indonesië

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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63	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	105	KKK	4800	EUTR <u>100 % PEFC certified</u>
63	125	KKK	5900	EUTR <u>100 % PEFC certified</u>
60	140	KKK	5900	EUTR <u>100 % PEFC certified</u>
63	145	KKK	5900	EUTR <u>100 % PEFC certified</u>

72	86	DKD	800-3000	EUTR <u>100 % PEFC certified</u>
72	86	DKD	1200-3600	EUTR <u>100 % PEFC certified</u>
72	86	DKD	900-3000	<u>FSC 100 %</u>
72	105	DKD	1200-3000	EUTR <u>100 % PEFC certified</u>
72	125	DKD	800-3000	EUTR <u>100 % PEFC certified</u>
72	125	DKD	2100-3000	EUTR <u>100 % PEFC certified</u>
72	127	DKD	900-3000	EUTR <u>100 % PEFC certified</u>
72	145	DKD	900-3000	EUTR <u>100 % PEFC certified</u>
72	145	DKD	900-3600	EUTR <u>100 % PEFC certified</u>

DARK RED MERANTI SERAYA - 3 face clear
Maleisië, Indonesië

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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72	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	86	KKK-LP	5900	EUTR <u>100 % PEFC certified</u>
72	125	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	145	KKK	5900	EUTR <u>100 % PEFC certified</u>

84	86	DKD/DKKD	800-3000	EUTR <u>100 % PEFC certified</u>
84	115	DKD/DKKD	1200-2500	EUTR <u>100 % PEFC certified</u>

84	86	KKK	800-3000	EUTR <u>100 % PEFC certified</u>
84	124	KKK	1200-2500	EUTR <u>100 % PEFC certified</u>

96	86	DKD/DKKD	900-3600	EUTR <u>100 % PEFC certified</u>
96	86	DKD/DKKD	2100-3000	EUTR <u>100 % PEFC certified</u>
96	86	DKD/DKKD	2200-3600	EUTR <u>100 % PEFC certified</u>
96	115	DKD/DKKD	2100-3600	EUTR <u>100 % PEFC certified</u>
96	124	DKD/DKKD	2000-3600	EUTR <u>100 % PEFC certified</u>



DARK RED MERANTI SERAYA - 3 face clear

Maleisië, Indonesië

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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96	86	KKKK	5900	EUTR <u>100 % PEFC certified</u>
96	115	KKKK	5900	EUTR <u>100 % PEFC certified</u>
96	124	KKKK	5900	EUTR <u>100 % PEFC certified</u>

DARK RED MERANTI SERAYA - 4 face clear
Maleisië, Indonesië

 +/- 500 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte	Eco-cert.
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72	86	KKK	5900	EUTR <u>100 % PEFC certified</u>
72	86	KKK-LP	5900	EUTR <u>100 % PEFC certified</u>



PADOUK (*Pterocarpus soyauxii*)
Kameroen, Gabon, DRC

Klasse I
 +/- 790 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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72	86	DKD	1850-3450	EUTR
72	125	DKD	2250-3050	EUTR
72	145	DKD	2000-3050	EUTR

72	56	KKK	5900	EUTR
72	86	KKK	5900	EUTR
72	115	KKK	5900	EUTR
72	125	KKK	5900	EUTR
72	145	KKK	5900	EUTR

72	86	DKD	2150-3150	<u>FSC 100 %</u>
72	125	DKD	2150-4050	<u>FSC 100 %</u>

PADOUK (Pterocarpus soyauxii)
Kameroen, Gabon, DRC

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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72	86	KKK	5900	<u>FSC 100 %</u>
72	115	KKK	5900	<u>FSC 100 %</u>
72	125	KKK	5900	<u>FSC 100 %</u>
72	145	KKK	5900	<u>FSC 100 %</u>

84	86	DKD	2000-3050	EUTR
84	145	DKD	2250-2350	EUTR

84	86	KKK	6000	EUTR
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92	86	DKKD	2000-3600	EUTR
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96	86	DKKD	2100-3300	EUTR
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PADOUK (Pterocarpus soyauxii)
Kameroen, Gabon, DRC

Dikte mm	Breedte	Samenstelling	Lengte	Eco-cert.
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96	86	KKKK	5900	EUTR
96	124	KKKK	5900	EUTR
96	145	KKKK	5900	EUTR

96	86	DKKD	1200-2500	<u>FSC 100 %</u>
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VLIESGEVELS

58	250	VV-MP	6000	EUTR
58	280	VV-MP	6000	EUTR
72	252	VV-MP	5500	EUTR



SAPELLI (*Entandrophragma cylindricum* Sprague)
Kameroen, DRC

Klasse III
 +/-650 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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72	86	KKK	5900	EUTR
72	125	KKK	5900	EUTR

SIPO (Entandrophragma utile Sprague)
Kameroen, DRC

Klasse II-III
 +/- 650 kg/m³



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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72	86	KKK	5900	EUTR
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TIAMA (Entandrophragma angolense C.DC.)
Kameroen, Gabon, DRC

Klasse III

 +/- 550 kg/m³


Dikte mm	Breedte mm	Samenstelling	Lengte mm	Eco-cert.
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63	86	DKD	2450-3050	EUTR
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63	75	KKK	5900	EUTR
63	86	KKK	5900	EUTR
63	95	KKK	5900	EUTR
63	125	KKK	5900	EUTR

72	75	KKK	5900	FCBA
72	86	KKK	5900	FCBA
72	95	KKK	5900	FCBA
72	125	KKK	5900	FCBA



ISOPROFILE

KOZIJNHOUT VOOR HOOGISOLERENDE BEGLAZING
(B)EN conform



Dikte mm	Breedte mm	Samenstelling	Lengte mm	Houtsoort
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96	86	DDDD	1800-3600	DRM Seraya
96	115	DDDD	2400-3300	DRM Seraya
96	125	DDDD	2100-3600	DRM Seraya
96	145	DDDD	2100-3600	DRM Seraya

96	86	DDDD	1800-3600	DRM Nemesu
96	96	DDDD	1800-3600	DRM Nemesu
96	115	DDDD	1800-3600	DRM Nemesu
96	125	DDDD	1800-3600	DRM Nemesu
96	145	DDDD	1800-3600	DRM Nemesu

**KOZIJNHOUT VOOR HOOGISOLERENDE BEGLAZING
(B)EN conform**

Dikte mm	Breedte mm	Samenstelling	Lengte mm	Houtsoort
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96	86	KKKK	5900	Swietenia
96	105	KKKK	5900	Swietenia
96	125	KKKK	5900	Swietenia

96	86	KKKK	5900	Sib.Lariks
96	125	KKKK	5900	Sib.Lariks

PROJECT GEBONDEN MAATWERK MOGELIJK





DELAMINATIEPROEF WOOD.BE



Our references: RWSP16/Report 200198-4/DDW Hardwoods

REPORT no.200198-4

Customer: DDW Hardwoods
Joseph Cardijnstraat 3
BE-9420 Erpe-Mere
Object: Testing of glue-lines in glued laminated timber for non-structural uses according to CEN/TS 13307-2
Wood species: meranti seraya
Date: 07/04/2020

VOORBEELD
DELAMINATIE TEST
WOOD BE

This report covers 3 pages and can only be distributed in full. The results only relate to the tested samples. Unless stated to the contrary, the untested and/or tested samples are only kept in our laboratory for one month counting from the date of the report.

Alleen Ref: Verkeersweg 3 - B-1079 Brussels - T: 00 22 7 558 15 50
info@wood.be - www.wood.be
TVA: BE 0456.625.650.BTW



Report no. 200198-4
Page 2 of 3

Test method

Scope: Glue line testing of glued laminated timber for non-structural uses
Test standard / protocol: CEN/TS 13307-2 / PT-07-001
Deviations from the standard protocol: none
Evaluation according to: CEN/TS 13307-2
Service class: service class 3
Test date: 07/04/2020
Report date: 07/04/2020

Sampling

Sample number WOOD.BE: W200309
Client: DDW Hardwoods
Address: Joseph Cardijnstraat 3
BE-9420 Erpe-Mere
Date of sample delivery: 07/02/2020
Date of inspection: n/a
Sampling carried out by: DDW Hardwoods

Sample description

Description of the samples: 16 glued laminated timber profiles (3 layers, 80 x 72 mm)
Ref. DDW Hardwoods: "Part 120601"
Wood species: meranti seraya
Glue type: "Synitko 1915/Hardener 1999" (D4)
Carco Adhesives
Amount of samples: 30 glue-lines were selected out of the laminated timber profiles
Remarks: none

Test procedure

After submitting the samples to the conditioning sequence according to the selected service class, the delamination test is carried out. In case of negative test results, a shear assessment is required for both the reference ("test") test pieces and the test pieces that have already been submitted to the optimization test cycle. The residual strength R_0 (average strength of the set of the test pieces/ average strength of the set of reference pieces) is calculated. The coefficient of variation CV of the strength is calculated for the 2 series of samples. The evaluation of the performance of the glue lines is carried out by means of limit values for R_0 and CV.

This report covers 3 pages and can only be distributed in full. The results only relate to the tested samples.



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Test results

The evaluation of the performance of the glue-lines according to CEN/TS 13307-2 is carried out by means of the following parameters and requirements:

Table with 6 columns: Test, Ref., MV, D_u, D_w, Requirement, OK/NOK. Row: Delamination

Table with 6 columns: Test, Ref., M_0, M_1, R_0, Requirement, OK/NOK. Row: Shear assessment

Table with 6 columns: Test, Ref., CV_0, OK/NOK, CV_1, OK/NOK. Row: Shear assessment

MV: average volumetric mass of the batch
D_u: average delamination rate of the test pieces
D_w: upper estimate of average delamination rate of the test pieces
Requirement: D_u <= (33 * MV/1000) - 7 [%]
M_0: average strength of the set of the test pieces
M_1: average strength of the set of reference pieces
M_U: requirement: R_0 >= 14 - (30 * MV/1000) [%]
CV_0: coefficient of variation within the set of "aged" test pieces
Requirement: CV_0 <= 25 %
CV_1: coefficient of variation within the set of fresh test pieces
Requirement: CV_1 <= 15 %

Evaluation

The performance of the samples complies with the requirements stated in CEN/TS 13307-2, for service class 3.

Brussels, 07/04/2020

Signature of Ir. Inge Wulfens

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VERLIJMD RAAMHOUT



DELAMINATIEPROEF CSTC

Report form for CSTC delamination test, including client information, test details, and signatures.

VOORBEELD DELAMINATIE TEST CSTC

Report page 1: Introduction and description of the test specimens.

Report page 2: Results of the delamination test, including a table of results.

Report page 3: Results of the delamination test, including a table of results.

Report page 4: Results of the delamination test, including a table of results.