

- 1) Product name:  
Supergarant (100% okoume for exterior conditoins)
- 2) Unique identification code of the product type:  
SGAFM
- 3) Intended use:  
Structural exterior
- 4) Manufacturer / authorised representative:  
Houtwerf BV, Produktieweg 62-70, 2382 PD Zoeterwoude, The Netherlands
- 5) System of assesment and verification of constancy of performance:  
2+
- 6) Certificate of conformity of the factory production control issued by:  
FCBA (0380)
- 7) European technical assesment
- 8) Declared performances:  
Harmonised tecnical specification EN 13986:2004+A1:2015

Essential characteristics	Performance									
Thickness	4 mm	6 mm	8 mm	10 mm	12 mm	15 mm	18 mm	22 mm	40 mm	
Number of plies	3	4	5	5	5	7	9	11	15	
Resistance (N/mm <sup>2</sup> )										
Tension $f_t$	//	9,1	6,1	12,7	10,2	12,6	10,1	8,4	8,2	12,2
	⊥	14,4	17,4	12,1	14,6	12,2	14,7	16,4	16,6	12,6
Compression $f_c$	//	15	10	22,1	17,8	22	17,6	14,6	14,3	21,2
	⊥	23,5	28,5	21,1	25,4	21,2	25,6	28,6	28,9	22
Bending $f_m$	//	45,5	35	40,8	34,4	31,7	30,4	27,5	25,9	31,3
	⊥	22	32,4	24,7	31,1	33,8	35,1	38	39,6	34,2
Planar shear $f_r$	//	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
	⊥	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
Panel shear $f_v$	//	7	7	8,2	8,2	8,2	8,2	8,2	8,2	8,2
	⊥	7	7	8,2	8,2	8,2	8,2	8,2	8,2	8,2
Modulus of elasticity (N/mm <sup>2</sup> )										
Tension $f_t$	//	3597	2398	6018	4838	5971	4792	3960	3882	5761
	⊥	5653	6852	5732	6912	5779	6958	7790	7868	5989
Compression $f_c$	//	3597	2398	6018	4838	5971	4792	3960	3882	5761
	⊥	5653	6852	5732	6912	5779	6958	7790	7868	5989
Compression $f_m$	//	7139	5490	7317	6170	5692	5456	4940	4650	5621
	⊥	2111	3760	4433	5580	6058	6294	6810	7100	6129
Planar shear $G_r$	//	91	91	178	221	179	223	270	275	186
	⊥	91	91	71	62	62	92	96	103	148
Panel shear $G_v$	//	552	552	552	552	552	552	552	552	552
	⊥	552	552	552	552	552	552	552	552	552

Reaction to fire*	End use condition	Minimum thickness	Class excluding floorings	Class floorings
	Without an air gap behind the panel	9 mm	D-s2, d0	Dfl-s1
	With a closed or an open air gap not more than 22 mm behind the woodbased panel	9 mm	D-s2, d0	-
	With a closed air gap behind the wood-based panel	15 mm	D-s2, d1	Dfl-s1
	With an open air gap behind the wood-based panel	18 mm	D-s2, d0	Dfs-s1
*In reference to table 8 of EN 13986 – 2004+A1:2015	Any	3 mm	E	Efl
Thermal conductivity (W/m.K)		$\lambda = 0,13$		

Mean stiffness in bending under concentrated load -  $R_{mean}$  (N/mm)  
No performance declared

Ultimate characteristic strength under concentrated load – F <sub>max,k</sub> (kN) No performance declared
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Serviceability characteristic strength under concentrated F <sub>ser,k</sub> (kN) No performance declared
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Racking resistance (wall sheathing on studs)	No performance declared To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 500 (kg/m <sup>3</sup> )
Impact resistance	No performance declared In accordance with the requirements of EN 12871 in impact resistance

Water vapour permeability	μ Wet cup	μ Dry cup
	44	187
Release of formaldehyde	E1	
Content of pentachlorophenol	PCP < 5 ppm	
Airborne sound absorption	No performance declared The sound transmission loss R of a single wood-based panel, measured in dB, is related the mean surface mass mA en kg/m <sup>2</sup> according to the following equation (which is only valid for the frequency range of 1 kHz to 3 kHz and at a surface mass > 5 kg/m <sup>2</sup> ): R = 13 × lg (mA) + 14	
Sound absorption (coefficient)	Frequency range 250 Hz to 500 Hz	Frequency range 1000 Hz to 2000 Hz
	0,10	0,30
Embedment strength	No performance declared To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 500 kg/m <sup>3</sup>	
Air permeability (flow)	0,0 m <sup>3</sup> /(h.m <sup>2</sup> )	
Bonding	Class 3 (EN 636-3) according to EN 314-2	

Modification factor k <sub>mod</sub>	Duration of load				
	Permanent	Long	Medium	Short	Instaneous
	0,50	0,55	0,65	0,70	0,90
Deformation factor k <sub>def</sub>	Service class				
	1	2		3	
	0,80	1,00		2,50	
Biological durability - Use class	3				

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance is issued under the sole responsibility of the manufacturer/authorized representative referred to in point 4.

Signed for and on behalf of the manufacturer / authorized representative by:



Naam: P.F. Verbeek  
Zoeterwoude