

- 1) Product name:
Supergarant (100% okoume for exterior conditions, pre-paint coating system on both sides)
- 2) Unique identification code of the product type:
SGAWIFM
- 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 technical specification EN 13986:2004+A1:2015

| Essential characteristics | | Performance | | | | |
|--|----|-------------|-------|-------|-------|-------|
| Thickness | | 10 mm | 12 mm | 15 mm | 18 mm | 40 mm |
| Number of plies | | 5 | 5 | 7 | 9 | 15 |
| Resistance (N/mm ²) | | | | | | |
| Tension f_t | // | 10,2 | 12,6 | 10,1 | 8,4 | 12,2 |
| | ⊥ | 14,6 | 12,2 | 14,7 | 16,4 | 12,6 |
| Compression f_c | // | 17,8 | 22 | 17,6 | 14,6 | 21,2 |
| | ⊥ | 25,4 | 21,2 | 25,6 | 28,6 | 22 |
| Bending f_m | // | 34,4 | 31,7 | 30,4 | 27,5 | 31,3 |
| | ⊥ | 31,1 | 33,8 | 35,1 | 38 | 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 |
| Planar shear f_v | // | 8,2 | 8,2 | 8,2 | 8,2 | 8,2 |
| | ⊥ | 8,2 | 8,2 | 8,2 | 8,2 | 8,2 |
| Modulus of elasticity (N/mm ²) | | | | | | |
| Tension f_t | // | 4838 | 5971 | 4792 | 3960 | 5761 |
| | ⊥ | 6912 | 5779 | 6958 | 7790 | 5989 |
| Compression f_c | // | 4838 | 5971 | 4792 | 3960 | 5761 |
| | ⊥ | 6912 | 5779 | 6958 | 7790 | 5989 |
| Compression f_m | // | 6170 | 5692 | 5456 | 4940 | 5621 |
| | ⊥ | 5580 | 6058 | 6294 | 6810 | 6129 |
| Planar shear G_r | // | 221 | 179 | 223 | 270 | 186 |
| | ⊥ | 62 | 62 | 92 | 96 | 148 |
| Panel shear G_v | // | 552 | 552 | 552 | 552 | 552 |
| | ⊥ | 552 | 552 | 552 | 552 | 552 |

| Reaction to fire * | End use condition | Minimum thickness | Class excluding floorings | Class floorings |
|---|---|-------------------------------------|---------------------------|-----------------|
| | *In reference to table 8 of EN 13986 – 2004+A1:2015 | Without an air gap behind the panel | 9 mm | D-s2, d0 |
| 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 |
| 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 – $F_{max,k}$ (kN)
No performance declared

Serviceability characteristic strength under concentrated $F_{ser,k}$ (kN)
No performance declared

| | |
|---|--|
| 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 ³) |
| Impact resistance | No performance declared In accordance with the requirements of EN 12871 in impact resistance |

| | | |
|--------------------------------|--|---------------------------------------|
| Water vapour permeability | μ Wet cij 44 | μ Dry cup 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 ² 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 ²): $R = 13 \times \lg(mA) + 14$ | |
| 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 ³ | |
| Air permeability (flow) | 0,0 m ³ /(h.m ²) | |
| Bonding | Class 3 (EN 636-3) according to EN 314-2 | |

| | | | | | |
|-----------------------------------|----------------|-------|-------------|-------|---------|
| Modification factor k_{mod} | Belastingsduur | | | | |
| | Permanente | Lange | Middellange | Korte | Direkte |
| | 0,50 | 0,55 | 0,65 | 0,70 | 0,90 |
| Deformation factor k_{def} | Gebruiksklasse | | | | |
| | 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