

DECLARATION OF PERFORMANCE

Reference number **WFOSB3DoPv11**

West Fraser Europe Ltd
Morayhill, Dalcross
Inverness
IV2 7JQ

| Unique Identification code of the product type* | Intended Use | Systems of AVCP | Notified Body | Harmonised standard |
|--|--|-----------------|---------------|----------------------|
| OSB/3 >6mm to 32mm* | Internal/external use as structural components in humid conditions | 2+ | 0502 | EN13986:2004+A1:2015 |
| *The unique identification code of the product type is a combination of the technical class and the individual product's nominal thickness | | | | |

Declared performance (covering a range of product-types OSB/3 >6mm to 32mm*)

| Essential characteristics | Performance | | | | | | | | | | | | | |
|--|-------------|------|------------|------|----------|------|-----------|-----|-----------------------------|------|------------------------------|------|------------------------------|------|
| Thickness range | 6 to 10 | | >10 to <18 | | 18 to 25 | | >25 to 32 | | 15 T&G 400mm centres | | 18 T&G 600mm centres | | 22 T&G 600mm centres | |
| | 0 | 90 | 0 | 90 | 0 | 90 | 0 | 90 | 0 - 90 | | 0- 90 | | 0-90 | |
| ¹ Characteristic Strength (N/mm ²) | 18.0 | 9.0 | 16.4 | 8.2 | 14.8 | 7.4 | NPD | NPD | 16.4 | 8.2 | 14.8 | 7.4 | 14.8 | 7.4 |
| - Bending | | | | | | | | | | | | | | |
| - Compression f_c | 15.9 | 12.9 | 15.4 | 12.7 | 14.8 | 12.4 | NPD | NPD | 15.4 | 12.7 | 14.8 | 12.4 | 14.8 | 12.4 |
| - Tension f_t | 9.9 | 7.2 | 9.4 | 7.0 | 9.0 | 6.8 | NPD | NPD | 9.4 | 7.0 | 9.0 | 6.8 | 9.0 | 6.8 |
| - Panel Shear f_v | 6.8 | | 6.8 | | 6.8 | | NPD | | 6.8 | | 6.8 | | 6.8 | |
| - Planar shear f_r | 1.0 | | 1.0 | | 1.0 | | NPD | | 1.0 | | 1.0 | | 1.0 | |
| ¹ Mean Stiffness values,(MOE) (N/mm ²) | 3800 | 3000 | 3800 | 3000 | 3800 | 3000 | NPD | NPD | 3800 | 3000 | 3800 | 3000 | 3800 | 3000 |
| - Tension E_t | | | | | | | | | | | | | | |
| - Compression E_c | 3800 | 3000 | 3800 | 3000 | 3800 | 3000 | NPD | NPD | 3800 | 3000 | 3800 | 3000 | 3800 | 3000 |
| - Bending E_m | 4930 | 1980 | 4930 | 1980 | 4930 | 1980 | NPD | NPD | 4930 | 1980 | 4930 | 1980 | 4930 | 1980 |
| - Panel Shear G_v | 1080 | | 1080 | | 1080 | | NPD | | 1080 | | 1080 | | 1080 | |
| - Compression E_c | 50 | | 50 | | 50 | | NPD | | 50 | | 50 | | 50 | |
| Punching Shear Characteristic strength under point load $F_{max,k}$ (kN) (for floors and roofs) | NPD | | NPD | | NPD | | NPD | | 2.64 | | 4.12 | | 4.96 | |
| Punching Shear Mean stiffness under point load, R (N/mm) (for floors and roofs) | NPD | | NPD | | NPD | | NPD | | 305 | | 489 | | 770 | |
| Racking resistance (for walls) Characteristic Strength $F_{Rd,max,k}$ (N) | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | |
| Racking resistance (for walls) Mean Stiffness R_{mean} (N/mm) | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | |
| Soft Body Impact resistance Floors/Roofs Walls | NPD | | NPD | | NPD | | NPD | | Impact Class 1 Pass Roof | | Impact Class 1 Pass Floor | | Impact Class 1 Pass Floor | |
| Embedment strength f_h (N/mm ²) | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | | NPD | |

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|--|---|-------------------|-------------------|-------|------------------------------|-------|---------------------|---------------|
| ²Reaction to fire (see notes to table for field of application details and associated documentation references) - | | | Minimum thickness | | Class (excluding floorings)ᵍ | | Class (Flooring)ʰ | |
| | Without an air gap behind the panel ^{abef} | | 9 | | D-s2,d0 | | D _{fi} ,s1 | |
| | With a closed or open air gap ≤ 22mm behind the panel ^{cef} | | 9 | | D-s2,d2 | | - | |
| | Closed air gap behind the panel ^{def} | | 15 | | D-s2,d0 | | D _{fi} ,s1 | |
| | With an open air gap behind the panel ^{def} | | 18 | | D-s2,d0 | | D _{fi} ,s1 | |
| | Any end use ^{ef} | | 3 | | E | | E _{fi} | |
| | a -Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m3 or at least class D-s2, d2 products with minimum density 400 kg/m3. b -A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings. c -Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m3. d -Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m3. e -Veneered, phenol- and melamine-faced panels are included for class excl. floorings. f -A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m² can be mounted in between the wood-based panel and a substrate if there are no air gaps in between. g -Class Provided for in Table 1 of the Annex to decision 2000/147/EC h -Class Provided for in Table 2 of the Annex to decision 2000/147/EC | | | | | | | |
| Water vapour permeability (EN:12572:2001) | | | | | | | | |
| Thickness (mm) | | 15 | | | | | | |
| Dry (µ) | | 207 | | | | | | |
| Wet (µ) | | 97 | | | | | | |
| Release of formaldehyde | | E1 | E1 | E1 | E1 | E1 | E1 | E1 |
| Release (content) of pentachlorophenol (PCP) | | ≤5ppm | ≤5ppm | ≤5ppm | ≤5ppm | ≤5ppm | ≤5ppm | ≤5ppm |
| Airborne sound insulation (surface mass) R (dB) | | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| ³Sound absorption Frequency range 250Hz to 500Hz (α) | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| ³Sound absorption Frequency range 1000Hz to 2000Hz (α) | | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Thermal conductivity λ (W/m.K) | | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Air Permeability V₀ (m3/h) | | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| Durability | | | | | | | | |
| Internal bond (N/mm²) | | 0.34 | 0.32 | 0.30 | 0.29 | 0.32 | 0.32 | 0.30 |
| Swelling in thickness (%) | | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Bending strength after cyclic test – major axis (N/mm²) | | 9 | 8 | 7 | 6 | 8 | 8 | 7 |
| ⁴Mechanical (creep k _{def}) Service class 1 | | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| ⁴Mechanical (creep k _{def}) Service class 2 | | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 |
| Mechanical (duration of load k _{mod}) | | Action Mode | | | | | | |
| | | Permanent | Long Term | | Medium Term | | Short Term | Instantaneous |
| ⁴Service class 1 | | 0.4 | 0.5 | | 0.7 | | 0.9 | 1.1 |
| ⁴Service class 2 | | 0.3 | 0.4 | | 0.55 | | 0.7 | 0.9 |
| Biological | | Use classes 1 & 2 | | | | | | |

NOTES TO TABLE

1 Taken from EN 12369-1:2001

2 reaction to fire classes from Table 1 of Commission Decision 2003/43/EC of January 2003 (OJEU L13 of 18.1.2003) corrected by Corrigendum (OJEU L33 of 8.2.2003) and amended by Commission decision 2007/348/EC of May 2007 (OJEU L131 of 23-05-2007); also reproduced in Table three of EN 13986:2004+A1:2015 for wood-based panels installed according to CEN/TR 12872

3 Taken from Table 10 of EN 13986:2004+A1:2015

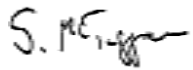
4 Taken from Eurocode 5 EN 1995-1-1 2004+A2:2014

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

This declaration of performance is issued in accordance with regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Steve McTaggart (HSEQ Manager)



At: Inverness, Scotland

On: 03 July 2023