

## TECHNICAL PROPERTIES

APRIL 2025

| OSB/3 EN300 - Characteristic values acc. to EN 13986 |          |                                       |
|------------------------------------------------------|----------|---------------------------------------|
|                                                      |          | Strand direction<br><b>Major axis</b> |
|                                                      | <b>d</b> | Board thickness<br><b>8 mm</b>        |

| Strength values [N/mm <sup>2</sup> ] |                     |      |
|--------------------------------------|---------------------|------|
| Stresses on board                    |                     |      |
| Bending                              | f <sub>m,k</sub>    | 18.0 |
| Compression                          | f <sub>c,90,k</sub> | 10.0 |
| Shear                                | f <sub>v,k</sub>    | 1.0  |
| Plate loading                        |                     |      |
| Bending                              | f <sub>m,k</sub>    | 9.9  |
| Tensile force                        | f <sub>t,k</sub>    | 9.9  |
| Compression                          | f <sub>c,k</sub>    | 15.9 |
| Shear                                | f <sub>v,k</sub>    | 6.8  |

| Stiffness values [N/mm <sup>2</sup> ]                                                                                         |                 |      |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------|------|
| Stresses on board                                                                                                             |                 |      |
| Bending modulus of elasticity                                                                                                 | E <sub>ma</sub> | 4930 |
| Shear modulus                                                                                                                 | G <sub>ra</sub> | 50   |
| Plate loading                                                                                                                 |                 |      |
| Tensile force modulus of elasticity                                                                                           | E <sub>ta</sub> | 3800 |
| Compression modulus of elasticity                                                                                             | E <sub>ca</sub> | 3800 |
| Shear modulus                                                                                                                 | G <sub>va</sub> | 1080 |
| <sup>a</sup> The characteristic stiffness values E05 and G05 are calculated as follows:<br>E05 = 0.85 x E, and G05 = 0.85 x E |                 |      |
| R Value                                                                                                                       | 0.083           |      |

| General and building physics values                             |   |                                                  |
|-----------------------------------------------------------------|---|--------------------------------------------------|
| Bulk density acc. to EN323                                      | m | 600 kg/m <sup>3</sup>                            |
| Max. deviations in board thickness                              |   | ± 0.8 mm (ContiFinish®)<br>± 0.3 mm (sanded)     |
| Tolerance in length and width                                   |   | ± 3 mm                                           |
| Perpendicularity acc. to EN 324-2                               |   | 2 mm/m                                           |
| Thermal conductivity acc. to EN 13986                           | λ | 0.13 W/mK                                        |
| Water vapour permeability value                                 | μ | 200 (moist) / 300 (dry)                          |
| Waste code                                                      |   | 03 01 05                                         |
| Air tightness at 50 Pa                                          |   | 0,14 [m <sup>3</sup> /hm <sup>2</sup> ]          |
| Thickness swelling acc. to EN 317                               |   | ≤ 15 %                                           |
| Coefficient of expansion for 1% change in wood moisture content |   | 0.03 %                                           |
| Emissions class                                                 |   | E1 - 100% Formaldehyde-free binders (< 0.03 ppm) |
| Environmental Product Declaration as per ISO 14025 and EN 15084 |   | EPD-KRO-20150067-IBD2-EN                         |
| Service classes acc. to EN 1995-1-1                             |   | 1 + 2                                            |
| Reaction to fire acc. to EN 13501-1                             |   | D-s2, d0                                         |
| Declaration of Performance No. acc. to CPR                      |   | SKDE_OSB-3_CPR_2019_044                          |

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| IBS RigidRAP®-XT Technical Data Sheet                                                                               |                                                      |                                              |           |           |        |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------|-----------|--------|
| Watertight Roof and Wall Wrap                                                                                       |                                                      |                                              |           |           |        |
| Characteristic                                                                                                      | Test Method                                          | Unit                                         | Value     | Tolerance |        |
|                                                                                                                     |                                                      |                                              |           | Min.      | Max    |
| Length                                                                                                              | EN 1848-2                                            | m                                            | 50        | -0        | +0     |
| Width                                                                                                               | EN 1848-2                                            | m                                            | 1,50      | -0,005    | +0,005 |
| Straightness                                                                                                        | EN 1848-2                                            | -                                            | pass      | -         | -      |
| Mass per unit area                                                                                                  | EN 1849-2                                            | g/m <sup>2</sup>                             | 120       | -10       | +10    |
| Thickness                                                                                                           | EN 1849-2                                            | mm                                           | 0,55      | -0,1      | +0,1   |
| Reaction to fire (free hanging)                                                                                     | EN 11925-2                                           | class                                        | F         | -         | -      |
| Resistance to water penetration                                                                                     | EN 1928 method A                                     | class                                        | W1        | -         | -      |
| Water vapour transmission properties                                                                                | EN ISO 12572 set C                                   | m                                            | 0,020     | -0,005    | +0,005 |
| Resistance to penetration of air                                                                                    | EN 12114                                             | m <sup>3</sup> /(m <sup>2</sup> x h x 50 Pa) | Max 0,050 | -         | -      |
| Tensile properties: Maximum tensile force                                                                           | EN 12311-1                                           | N/50 mm                                      | MD 245    | -45       | +45    |
|                                                                                                                     |                                                      |                                              | CD 140    | -25       | +25    |
| Tensile properties: Elongation                                                                                      | EN 12311-1                                           | %                                            | MD 50     | -25       | +25    |
|                                                                                                                     |                                                      |                                              | CD 80     | -30       | +30    |
| Resistance to tearing (nail shank)                                                                                  | EN 12310-1                                           | N                                            | MD 120    | -35       | +35    |
|                                                                                                                     |                                                      |                                              | CD 135    | -35       | +35    |
| Dimensional stability                                                                                               | EN 1107-2                                            | %                                            | 2         | -         | -      |
| Stability at low temperature                                                                                        | EN 1109                                              | °C                                           | -40       | -         | -      |
| Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat (80°C) | Elongation<br>EN 13859-1 zał. C                      | %                                            | MD 40     | -20       | +20    |
|                                                                                                                     |                                                      |                                              | CD 55     | -20       | +20    |
|                                                                                                                     | Tensile strength<br>EN 13859-1 zał. C                | N/50 mm                                      | MD 220    | -40       | +40    |
|                                                                                                                     |                                                      |                                              | CD 110    | -20       | +20    |
|                                                                                                                     | Resistance to water penetration<br>EN 13859-1 zał. C | class                                        | 1         | -         | -      |
|                                                                                                                     |                                                      |                                              |           |           |        |
| Water vapour transmission (23°C/85% RH)                                                                             | Lyssy                                                | g/m <sup>2</sup> x 24h                       | 1400      | -200      | +200   |
| Water vapour transmission (38°C/90% RH)                                                                             | Lyssy                                                | g/m <sup>2</sup> x 24h                       | 3200      | -400      | +400   |