

DECLARATION OF PERFORMANCE (according EU 305/2011, Annex V)

Reference number 03-0008-01

Identification code of the product type
STEICO LVL R

Name and address of the manufacturer
STEICO SE, Otto-Lilienthal-Ring 30, D-85622 Feldkirchen, Deutschland, Email: info@steico.com

Name and address of the authorised representative
not relevant

| Product type | Intended use | AVCP* | Notified Body reference | Notified Test Institute |
|--|-----------------------|-------|--|-------------------------|
| Structural laminated veneer lumber | Buildings and bridges | 1 | Materialprüfungsanstalt der Universität Stuttgart MPA Stuttgart – Otto-Graf-Institut (FMPA) Postfach 80 11 40 70511 Stuttgart / Germany | No 0672 |
| *Assessment and verification of constancy of performance system according to Annex V of regulation (EU) No 305/2011 | | | | |

Declared performance


| Essential Characteristics | Symbol | Unit | STEICOLVL R | Harmonised Technical Specification | |
|---|----------------------|-------------------|-------------|------------------------------------|--|
| Bending strength | | | | | |
| Edgewise, parallel to grain (depth 300 mm) | $f_{m,0,edge,k}$ | N/mm ² | 44 | EN 14374 | |
| Size effect parameter | S | - | 0,15 | | |
| Edgewise, perpendicular to grain (depth 300 mm) | $f_{m,90,edge,k}$ | N/mm ² | NPD | | |
| Flatwise, parallel to grain | $f_{m,0,flat,k}$ | N/mm ² | 50 | | |
| Flatwise, perpendicular to grain | $f_{m,90,flat,k}$ | N/mm ² | NPD | | |
| Tensile strength | | | | | |
| Parallel to grain (length 3 000 mm) | $f_{t,0,k}$ | N/mm ² | 36 | | |
| Perpendicular to grain, edgewise | $f_{t,90,edge,k}$ | N/mm ² | 0,9 | | |
| Compression strength | | | | | |
| Parallel to grain | $f_{c,0,k}$ | N/mm ² | 40 | | |
| Perpendicular to grain, edgewise | $f_{c,90,edge,k}$ | N/mm ² | 7,5 | | |
| Perpendicular to grain, flatwise | $f_{c,90,flat,k}$ | N/mm ² | 3,4 | | |
| Shear strength | | | | | |
| Edgewise parallel to grain | $f_{v,0,edge,k}$ | N/mm ² | 4,6 | | |
| Edgewise perpendicular to grain | $f_{v,90,edge,k}$ | N/mm ² | NPD | | |
| Flatwise, parallel to grain | $f_{v,0,flat,k}$ | N/mm ² | 2,6 | | |
| Flatwise, perpendicular to grain | $f_{v,90,flat,k}$ | N/mm ² | NPD | | |
| Modulus of elasticity | | | | | |
| Parallel to grain | $E_{0,mean}$ | N/mm ² | 14000 | | |
| Parallel to grain | $E_{0,k}$ | N/mm ² | 12000 | | |
| Perpendicular to grain, edgewise | $E_{90,edge,mean}$ | N/mm ² | NPD | | |
| Perpendicular to grain, edgewise | $E_{90,edge,k}$ | N/mm ² | NPD | | |
| Perpendicular to grain, flatwise | $E_{m,90,flat,mean}$ | N/mm ² | NPD | | |
| Perpendicular to grain, flatwise | $E_{m,90,flat,k}$ | N/mm ² | NPD | | |

Declared performance (continued)

| Essential Characteristics | Symbol | Unit | STEICOLVL R | Harmonised Technical Specification |
|---|--------------------|-------------------|-------------|------------------------------------|
| Shear modulus | | | | EN 14374 |
| Edgewise, parallel to grain | $G_{0,edge,mean}$ | N/mm ² | 600 | |
| Edgewise, parallel to grain | $G_{0,edge,k}$ | N/mm ² | 400 | |
| Flatwise, parallel to grain | $G_{0,flat,mean}$ | N/mm ² | 560 | |
| Flatwise, parallel to grain | $G_{0,flat,k}$ | N/mm ² | 400 | |
| Flatwise, perpendicular to grain | $G_{90,flat,mean}$ | N/mm ² | NPD | |
| Flatwise, perpendicular to grain | $G_{90,flat,k}$ | N/mm ² | NPD | |
| Density | | | | |
| Mean value | ρ_{mean} | kg/m ³ | 550 | |
| Five percentile value | ρ_k | kg/m ³ | 480 | |
| Bonding quality | - | % | > 70 | |
| Reaction to fire | - | - | D-s1,d0 | |
| Release of formaldehyde | - | - | E1 | |
| Natural durability against biological attack | - | - | 4 | |

The performance of the product identified is in conformity with the declared performance.
 This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

| | | |
|--|--|---|
| Dr. Michael Makas Head of R&D / QM (name and function) | Feldkirchen, 29/01/2016 (place and date of issue) | b.o. (signature)  |
|--|--|---|

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| Date: 29/01/2016 | Revised: 29/01/2016 |
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