

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	3,6		
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					
Edgewise, parallel to grain	$G_{0,edge,mean}$	N/mm ²	600	EN 14374	
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		
Fifth 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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