

**DECLARATION OF PERFORMANCE (acc. EU 305/2011, Annex III)  
No 03-0006-01**

1. Unique identification code of the product-type: STEICO LVL X
2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Structural laminated veneer lumber for buildings and bridges
3. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5): STEICO SE, Otto-Lilienthal-Ring 30, D-85622 Feldkirchen, email: [info@steico.com](mailto:info@steico.com)
4. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: AVCP 1
5. In case of the declaration of performance concerning a construction product covered by a harmonised standard: Notified certification body No. 0672 MPA Stuttgart performed the determination of the product type on basis of type testing and type calculation
6. Declared performance

Essential Characteristics	Symbol	Unit	STEICO LVL X 21 – 24 mm	STEICO LVL X 27 – 75 mm	Harmonised Technical Specification	
<b>Bending strength</b>						
Edgewise, parallel to grain (depth 300 mm)	$f_{m,0,edge,k}$	N/mm <sup>2</sup>	30	32	EN 14374:2004	
Size effect parameter	S	-	0,15	0,15		
Edgewise, perpendicular to grain (depth 300 mm)	$f_{m,90,edge,k}$	N/mm <sup>2</sup>	NPD	NPD		
Flatwise, parallel to grain	$f_{m,0,flat,k}$	N/mm <sup>2</sup>	32	36		
Flatwise, perpendicular to grain	$f_{m,90,flat,k}$	N/mm <sup>2</sup>	7 <sup>1)</sup>	8		
<b>Tensile strength</b>						
Parallel to grain (length 3 000 mm)	$f_{t,0,k}$	N/mm <sup>2</sup>	18	18		
Perpendicular to grain, edgewise	$f_{t,90,edge,k}$	N/mm <sup>2</sup>	7	5		
<b>Compression strength</b>						
Parallel to grain	$f_{c,0,k}$	N/mm <sup>2</sup>	26	30		
Perpendicular to grain, edgewise	$f_{c,90,edge,k}$	N/mm <sup>2</sup>	9	9		
Perpendicular to grain, flatwise	$f_{c,90,flat,k}$	N/mm <sup>2</sup>	4	4		
<b>Shear strength</b>						
Edgewise parallel to grain	$f_{v,0,edge,k}$	N/mm <sup>2</sup>	4,6	4,6		
Edgewise perpendicular to grain	$f_{v,90,edge,k}$	N/mm <sup>2</sup>	4,6	4,6		
Flatwise, parallel to grain	$f_{v,0,flat,k}$	N/mm <sup>2</sup>	1,1	1,1		
Flatwise, perpendicular to grain	$f_{v,90,flat,k}$	N/mm <sup>2</sup>	1,1	1,1		
<b>Modulus of elasticity</b>						
Parallel to grain	$E_{0,mean}$	N/mm <sup>2</sup>	10000	10600		
Parallel to grain	$E_{0,k}$	N/mm <sup>2</sup>	9000	9000		
Perpendicular to grain, edgewise	$E_{90,edge,mean}$	N/mm <sup>2</sup>	3500	3000		
Perpendicular to grain, edgewise	$E_{90,edge,k}$	N/mm <sup>2</sup>	2700	2300		
Perpendicular to grain, flatwise	$E_{m,90,flat,mean}$	N/mm <sup>2</sup>	1300 <sup>1)</sup>	2500		
Perpendicular to grain, flatwise	$E_{m,90,flat,k}$	N/mm <sup>2</sup>	1000 <sup>1)</sup>	1800		

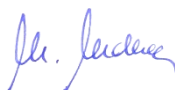
Declared performance (continued)

Essential Characteristics	Symbol	Unit	STEICO LVL X 21 – 24 mm	STEICO LVL X 27 – 75 mm	Harmonised Technical Specification
<b>Shear modulus</b>					
Edgewise, parallel to grain	$G_{0,edge,mean}$	N/mm <sup>2</sup>	600	600	EN 14374:2004
Edgewise, parallel to grain	$G_{0,edge,k}$	N/mm <sup>2</sup>	400	400	
Flatwise, parallel to grain	$G_{0,flat,mean}$	N/mm <sup>2</sup>	150	150	
Flatwise, parallel to grain	$G_{0,flat,k}$	N/mm <sup>2</sup>	130	130	
Flatwise, perpendicular to grain	$G_{90,flat,mean}$	N/mm <sup>2</sup>	150	150	
Flatwise, perpendicular to grain	$G_{90,flat,k}$	N/mm <sup>2</sup>	130	130	
<b>Density</b>					
Mean value	$\rho_{mean}$	kg/m <sup>3</sup>	530	530	
Fifth percentile value	$\rho_k$	kg/m <sup>3</sup>	480	480	
<b>Bonding quality</b>	-	%	≥ 70	≥ 70	
<b>Reaction to fire</b>	-	-	D-s1, d0	D-s1, d0	
<b>Release of formaldehyde</b>	-	-	E1	E1	
<b>Natural durability against biological attack</b>	-	-	4	4	

<sup>1)</sup> For the layup I-III-I the values  $f_{m,90,flat,k} = 14/N/mm^2$ ,  $E_{m,90,flat,mean} = 2600 N/mm^2$  und  $E_{m,90,flat,k} = 2600N/mm^2$  can be used.

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, 22/12/2016 (place and date of issue)	b.o. (signature) 
--	--	---

Date: 22/12/2016	Revised:
------------------	----------