



MADE FOR BUILDING  
BUILT FOR LIVING

# Declaration of Conformity

No.: DOC\_KLH\_K\_2022\_v01

1. Unique identification code of the product type:

**KLH® - CLT**

2. Intended use:

**Solid wood slab elements to be used as structural elements in buildings.**

3. Name, registered trade name or registered trademark and contact address of the manufacturer:

**KLH Massivholz GmbH  
8842 Teufenbach-Katsch, Gewerbestraße 4  
Austria**

4. Authorised representative:

**KLH Massivholz GmbH  
8842 Teufenbach-Katsch, Gewerbestraße 4  
Austria**

5. System of assessment and verification of constancy of performance:

**System 1**

6. UK Assessment Document:

**UKAD 130005-00-0304**

UK Technical Assessment:

**UKTA-0836-22/0028 of 16/02/2022**

Technical assessment body:

**BBA – British Board of Agrément**

Notified body:

**BBA – British Board of Agrément No 0836**

7. Declared properties:

Product dimensions	
Widths to	2 980 mm
Lengths to	16 500 mm
Thicknesses from	60 to 360 mm
The actual product dimensions can be obtained from the accompanying documents	

**KLH MASSIVHOLZ GMBH**

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Essential Characteristics	Performance
<b>1. Mechanical resistance and stability</b>	
<b>Plate actions</b>	
Modulus of elasticity parallel to the grain of the boards $E_{0,mean}$ perpendicular to the grain of the boards $E_{90,mean}$	12 000 MPa 450 MPa
Shear modulus parallel to the grain of the boards $G_{0,mean}$ perpendicular to the grain of the boards, rolling shear modulus $G_{90,mean}$	690 MPa 50 MPa
Bending strength parallel to the grain of the boards $f_{m,k}$	24 MPa
Tensile strength perpendicular to the grain of the boards $f_{t,90,k}$	0,12 MPa
Compressive strength perpendicular to the grain of the boards $f_{c,90,k}$	2,7 MPa
Shear strength parallel to the grain of the boards $f_{v,k}$ perpendicular to the grain of the boards (rolling shear strength) $f_{v,R,k}$	2,7 MPa 1,2 MPa
<b>Membrane actions</b>	
Modulus of elasticity parallel to the grain of the boards $E_{0,mean}$	12 000 MPa
Shear modulus parallel to the grain of the boards $G_{0,mean}$	500 MPa
Bending strength parallel to the grain of the boards $f_{m,k}$	24 MPa
Tensile strength parallel to the grain of the boards $f_{t,0,k}$	16,5 MPa
Compressive strength concentrated, parallel to the grain of the boards $f_{c,0,k}$	24 MPa
Shear strength regardless of loading direction, per glue line $f_{v,k,k}$ (Shear flow) parallel to the grain of the boards $f_{v,k}$ (Shear stress)	90 N/mm 3,9 to 8,4 MPa

Essential Characteristics	Performance
<b>Other mechanical actions</b>	
Embedment strength	According to EN 1995-1-1
Creep and duration of the load	$k_{mod}$ and $k_{def}$ according to EN 1995-1-1 for glued laminated timber
Dimensional stability as tolerances based on EN 336 for thickness and width	For elements with a length $> 1\text{ m} \pm 2\text{ mm}$ related to standard cutting and wood moisture content 12 %
Dimensional stability as wood moisture content after production	$u = 12 \pm 2\%$
Coefficient of thermal expansion according to EN 1995-1-1	$a = 5 \times 10^{-6}/K$
In-service environment as service classes according to EN 1995-1-1	1 and 2
Bond integrity according to UKAD 130005-00-0304 Adhesives used for surface bonding and finger jointing	Passed According to EN 15425
Glue line integrity as delamination test according to EN 14080, annex C, method B	Delamination fulfilled

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Essential Characteristics	Performance
<b>2. Safety in case of fire</b>	
Reaction to fire	D-s2, d0
Resistance to fire	Parameters for fire design according to annex 5, table 5 of UKTA-0836-22/0028  Fire resistance duration from REI 30 to REI 240 depending on the panel structure or possible fire protection claddings
<b>3. Hygiene, health and environment</b>	
Content, emission and/or release of hazardous substances as formaldehyde emissions	Formaldehyde emission class E1 according to EN 14080, formaldehyde free adhesive
Other hazardous substances	NPD
Water vapour permeability as water vapour diffusion resistance factor $\mu$ (including joints) according to EN ISO 12572	$\mu = 300$ (dry) to 46 (wet)
<b>4. Safety and accessibility in use</b>	
Impact resistance with a soft body	Fulfilled
<b>5. Protection against noise</b>	
Airborne sound insulation according to EN 10140-2	UKTA-0836-22/0028, annex 6
Impact sound insulation according to EN 10140-3	UKTA-0836-22/0028, annex 6
<b>6. Energy economy and heat retention</b>	
Thermal conductivity according to EN ISO 10456	$\lambda = 0,12$ W/(m K)
Air permeability according to EN 12114	Class 4 (tight) according to EN 12207
Thermal inertia as specific heat capacity $c_p$ according to EN ISO 10456	$c_p = 1\ 600$ J/(kg K)

The performance of the product is in accordance with/conforms to the declared performance. This declaration of conformity is issued under the sole responsibility of the manufacturer identified under item 3 above.

Signed for and on behalf of the manufacturer by:

  
  
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Mag. Marco Huter, Managing Director

Ing. Johann Hochegger M.Sc., Managing Director

Teufenbach-Katsch, 29.11.2022



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# Declaration of Conformity

No.: DOC\_KLH\_W\_2022\_v01

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**KLH® - CLT**

2. Intended use:

**Solid wood slab elements to be used as structural elements in buildings.**

3. Name, registered trade name or registered trademark and contact address of the manufacturer:

**KLH Massivholz GmbH  
8842 Teufenbach-Katsch, Gewerbstraße 4  
Austria**

4. Authorised representative:

**KLH Massivholz Wiesenau GmbH  
9462 Bad St. Leonhard, Wiesenau 2  
Austria**

5. System of assessment and verification of constancy of performance:

**System 1**

6. UK Assessment Document:  
UK Technical Assessment:  
Technical assessment body:  
Notified body:

**UKAD 130005-00-0304  
UKTA-0836-22/0028 of 16/02/2022  
BBA – British Board of Agrément  
BBA – British Board of Agrément No 0836**

7. Declared properties:

Product dimensions	
Widths to	3 500 mm
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Thicknesses from	60 to 360 mm
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**KLH MASSIVHOLZ WIESENAU GMBH**

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Signed for and on behalf of the manufacturer by:

  
  
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Bad St. Leonhard, 29.11.2022

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