

### **Declaration of Performance**

Unambiguous ID code of the product type: Glulam

Intended use: structural work and bridges

Manufacturer: Lilleheden A/S

Hovedvejen 114 9850 Hirtshals Denmark

Authorized representative: no external authorized representative

System for assessing and verifying the constancy of performance:

System 1

Harmonized standard: EN 14080:2013

Notified body: Nr. 0672

Performance declared:

Essential characteristics		Performance		
Mechanical properties as				
modulus of elasticity	Mechanical properties of strength classes for			
bending strength	Glulam	GL 24h		
compressive strength	Glulam	GL 24cs		
tensile strength	Glulam	GL 28cs		
shear strength	Glulam	GL 30c		
	The allocation of the construction products supplied to the individual strength classes can be taken from the accompanying documents.			
Geometric data	Geometric data for all product types			
	widths ranging between 38 mm and 240 mm			
	heights ranging between 100 mm and 2.000 mm			
	lengths of up to 48 m			
The relevant product dimensions can be documents.		uct dimensions can be taken from the accompanying		
Bonding strength as				
bending strength of finger	for all product types			
joints	as specified pursuant to EN 14080, Tables 2 & 3			
glue line integrity	delamination test	pursuant to EN 14080, Annex C, Method B		



Durability of bonding strength as				
species,	Glulam:	Spruce (picea abies)		
	Growth area;	NNE Europe (Northern and North Eastern Europe)		
adhesive	for all product types			
	adhesive for finger-joints:	MUF, EN301-I-90-FJ-0,1-S		
	adhesive for surface bonding:	MUF, EN301-I-90-GP-0,3-S		
Durability against biological	attack as			
natural durability class against wood destroying fungi EN 350-2 for all product types: 4				
Fire resistance as				
geometric data	for all product types: see "Geometric data"			
charring rate as	for all product types: characteristic raw density of the relevant strength class			
characteristic density				
• species	for all product types: see "Durability of bonding strength"			
Reaction to fire as				
Reaction to fire class	for all product types: D-s2, d0 pursuant to EN 14080, Table 11			
Emission of formaldehyde as				
formaldehyde emission class	for all product types: E 1			
Release of other dangerous substances				
release of other dangerous substances	for all product types: not relevant			

The characteristics of the above product conform to the performance declared. The above named manufacturer is exclusively responsible for preparing the Declaration of Performance in accordance with Regulation EU/305/2011.

Klaus Thomsen – Project Manager	
(Name and function)	
	A hayan
Hirtshals 02/06-2016	JAUS NOUSIN
(Place & date of issue)	(Signature)

Signed on behalf of the manufacturer and in his name by:



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Lilleheden A/S Hovedvejen 114 9850 Hirtshals Denmark

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### EN 14080:2013

Glued laminated timber to be used in buildings and bridges Glulam

# Mechanical properties and fire resistance as - strength class and characteristic raw density GL 24h Spruce (Picea abies) - species Bonding strength as pursuant to EN 14080:2013 - bending strength of finger joints glue line integrity Reaction to fire D-s2, d0 **Emission of formaldehyde** E1 Durability of bonding strength as Spruce (Picea abies) species - adhesive for the surface bonding between the lamellas MUF, EN301-I-90-GP-0,3-S MUF, EN301-I-90-FJ-0,1-S adhesive for finger joints Durability of other properties as 4 natural durability against wood destroying fungi



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### EN 14080:2013

Glued laminated timber to be used in buildings and bridges
Glulam

### Glulam Mechanical properties and fire resistance as GL 24cs strength class and characteristic raw density Spruce (Picea abies) species Bonding strength as bending strength of finger joints pursuant to EN 14080:2013 В glue line integrity Reaction to fire D-s2, d0 **Emission of formaldehyde** E1 Durability of bonding strength as Spruce (Picea abies) species - adhesive for the surface bonding between the lamellas MUF, EN301-I-90-GP-0,3-S MUF, EN301-I-90-FJ-0,1-S adhesive for finger joints Durability of other properties as 4 natural durability against wood destroying fungi



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### EN 14080:2013

Glued laminated timber to be used in buildings and bridges Glulam

# Mechanical properties and fire resistance as - strength class and characteristic raw density GL 28cs Spruce (Picea abies) - species Bonding strength as pursuant to EN 14080:2013 - bending strength of finger joints glue line integrity Reaction to fire D-s2, d0 **Emission of formaldehyde** E1 Durability of bonding strength as Spruce (Picea abies) species - adhesive for the surface bonding between the lamellas MUF, EN301-I-90-GP-0,3-S MUF, EN301-I-90-FJ-0,1-S adhesive for finger joints Durability of other properties as 4 natural durability against wood destroying fungi



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### EN 14080:2013

Glued laminated timber to be used in buildings and bridges

## Glulam Mechanical properties and fire resistance as - strength class and characteristic raw density GL 30c Spruce (Picea abies) - species Bonding strength as pursuant to EN 14080:2013 - bending strength of finger joints glue line integrity Reaction to fire D-s2, d0 **Emission of formaldehyde** E1 Durability of bonding strength as Spruce (Picea abies) species - adhesive for the surface bonding between the lamellas MUF, EN301-I-90-GP-0,3-S MUF, EN301-I-90-FJ-0,1-S adhesive for finger joints Durability of other properties as 4 natural durability against wood destroying fungi