



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

Authorised representative: **no external authorised 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 <i>Glulam</i> GL 24h <i>Glulam</i> GL 24cs <i>Glulam</i> GL 28cs <i>Glulam</i> GL 30c The allocation of the construction products supplied to the individual strength classes can be taken from the accompanying documents.
bending strength	
compressive strength	
tensile strength	
shear strength	
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 taken from the accompanying documents.
Bonding strength as	
bending strength of finger joints glue line integrity	for all product types as specified pursuant to EN 14080, Tables 2 & 3 delamination test pursuant to EN 14080, Annex C, Method B

Durability of bonding strength as	
species	<i>Glulam:</i> Spruce (<i>picea abies</i>) 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
<ul style="list-style-type: none"> • 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.

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

Klaus Thomsen – Project Manager

.....
(Name and function)



Hirtshals 02/06-2016

.....
(Place & date of issue)

.....
(Signature)



0672

Lilleheden A/S
Hovedvejen 114
9850 Hirtshals
Denmark

15

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
– species	Spruce (<i>Picea abies</i>)

Bonding strength as

– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B

Reaction to fire D-s2, d0

Emission of formaldehyde E1

Durability of bonding strength as

– species	Spruce (<i>Picea abies</i>)
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S

Durability of other properties as

– natural durability against wood destroying fungi	4
--	---

 0672	
Lilleheden A/S Hovedvejen 114 9850 Hirtshals Denmark 15	
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 24cs
– species	Spruce (<i>Picea abies</i>)
Bonding strength as	
– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B
Reaction to fire	D-s2, d0
Emission of formaldehyde	E1
Durability of bonding strength as	
– species	Spruce (<i>Picea abies</i>)
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S
Durability of other properties as	
– natural durability against wood destroying fungi	4



0672

Lilleheden A/S
Hovedvejen 114
9850 Hirtshals
Denmark

15

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
– species	Spruce (<i>Picea abies</i>)

Bonding strength as

– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B

Reaction to fire D-s2, d0

Emission of formaldehyde E1

Durability of bonding strength as

– species	Spruce (<i>Picea abies</i>)
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S

Durability of other properties as

– natural durability against wood destroying fungi	4
--	---



0672

Lilleheden A/S
Hovedvejen 114
9850 Hirtshals
Denmark

15

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
– species	Spruce (<i>Picea abies</i>)

Bonding strength as

– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B

Reaction to fire D-s2, d0

Emission of formaldehyde E1

Durability of bonding strength as

– species	Spruce (<i>Picea abies</i>)
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S

Durability of other properties as

– natural durability against wood destroying fungi	4
--	---