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 bending strength compressive strength tensile strength shear strength	Mechanical properties of strength classes for *Glulam* GL 24h *Glulam* GL 24cs *Glulam* GL 28cs *Glulam* GL 30c The allocation of the construction products supplied to the individual strength classes can be taken from the accompanying documents.
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,	*Glulam:*	Spruce *(picea abies)*
	Growth area;	NNE Europe (Northern and North Eastern Europe)
adhesive	for all product types	
	adhesive for finger-joints:	MUF, IGP70S
	adhesive for surface bonding:	MUF, IGP70S
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 • characteristic density	for all product types: characteristic raw density of the relevant strength class	
• 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)

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CE 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 *(Picea abies)*
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 *(Picea abies)*
– adhesive for the surface bonding between the lamellas	MUF, IGP70S
– adhesive for finger joints	MUF, IGP70S
Durability of other properties as	
– natural durability against wood destroying fungi	4

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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 *(Picea abies)*
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 *(Picea abies)*
– adhesive for the surface bonding between the lamellas	MUF, IGP70S
– adhesive for finger joints	MUF, IGP70S
Durability of other properties as	
– natural durability against wood destroying fungi	4

CE 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 *(Picea abies)*
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 *(Picea abies)*
– adhesive for the surface bonding between the lamellas	MUF, IGP70S
– adhesive for finger joints	MUF, IGP70S
Durability of other properties as	
– natural durability against wood destroying fungi	4

CE 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 *(Picea abies)*
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 *(Picea abies)*
– adhesive for the surface bonding between the lamellas	MUF, IGP70S
– adhesive for finger joints	MUF, IGP70S
Durability of other properties as	
– natural durability against wood destroying fungi	4