Surface Qualities of HESS TIMBER GmbH

Glued Laminated Timber

A brief overview of the possible surface qualities of the hess-timber.com natural product glued laminated timber from HESS TIMBER.

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Νο	CRITERA ¹	I N D U S T R I A L - Q U A L I T Y Definition: Studiengemeinschaft Holzleimbau	VISUAL-QUALITY Definition: Studiengemeinschaft Holzleimbau	N A T U R E - Q U A L I T Y Definition: HESS TIMBER Gmb
1	Firmly grown knots ^{2,3}	permitted	permitted	permitted
2	Fallen and loose knots ^{2,3}	permitted	Up to \emptyset < 20 mm permitted ⁴ \emptyset > 20 mm are to be replaced in the works ⁴	permitted
3	Resin gall ^{3,5}	permitted	Resin galls are permitted up to 5 mm	permitted
4	Knots and faulty points improved by means of knot hole plugs or "ships" ³	not necessary	permitted	not necessary
5	Knots and resin galls improved by means of filler compound ³	not necessary	permitted ⁶	not necessary
6	Insect attack ³	permitted are burrows up to 2 mm	permitted are burrows up to 2 mm	permitted are burrows up to 2
7	Pith	permitted	permitted	permitted
8	Cracks caused by shrinking ^{3,5,7}	no limit	up to 4 mm	no limit
9	Discolorations as a result of blue stain, red and brown nail solid stripes ⁵	no limit	up to 10 % of the visible surface of the whole construction component	up to 10 % of the visible surfa whole construction compone
10	Mould ⁵	not permitted	not permitted	not permitted
11	Contamination of the surface ⁵	permitted	not permitted	not permitted
12	Distance between fingerjoints	no limit	no limit	no limit
13	Surface	levelled out	planed and camfered chatter permitted up to a depth of 1 mm	planed and camfered

ANNOTATIONS

¹ Deviations from the limit values defined in the following in lines 2, 3, 6-9, 12, 13 are to be tolerated to the following extent: maximum of three deviations/m² visible surface for the quality of vision, maximum of one deviation/m² visible surface for selection quality.

² Permissible knot size according to DIN 4074: 2012

³ Without limitation of the number

⁴ Measurement of the diameter of the knots analogue to the measurement of the diameter of individual knots for scantlings according to DIN 4074-1: 2012, 5.1.2.1.

⁵ Delivery condition

⁶ Filler compound which can be painted over is to be demanded explicitly.

⁷ As in all constructional solid wood products cracks can be present. The depth of the crack, measured with a 0.1 mm thick feeler gauge and independent of the quality of the surface for construction components, may be, for members not being subject to tensile-stresses perpendicular to the grain up to 1/6 of the width of the construction component, for members being subject to tensile-stresses perpendicular to the grain, up to 1/8 of the width of the component from each side. With deeper cracks the non-critical state should be checked by an expert.



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INDUSTRIAL-QUALITY

permitted are firmly grown knots

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NATURE - QUALITY Definition: HESS TIMBER G

permitted are firmly grown



Fallen and loose knots Up to ø < 20 mm permitted 4 ϕ > 20 mm are to be replaced in the works 4

Resin galls are permitted up to 5 mm







up to 10 % of the visible surface of the





permitted





no limit



up to 10 % of the visible sur whole construction component



ANNOTATIONS

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7

8

9

C R I T E R A ¹

Resin gall

Pith

Cracks caused by shrinking

Discolorations as a result of blue stain,

red and brown nail solid stripes

Firmly grown knots

Fallen and loose knots

¹ These are examples for surface qualities. Due to natural variation of the material wood, it is possible to get variations because of material and season.



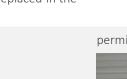


up to 4 mm



whole construction component







permitted



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