



GLT[®] - ceiling elements

HASSLACHER
NORICA TIMBER

Description of GLT[®]-ceiling elements:

Grading / quality

strength grading / design:

S10 according to DIN 4074-1, C24 according to EN 338 according to the technical approval as capable as glulam

optical quality:

Industry (NSI)
Standard
Industry/Select (Select on the right side of the board)
Select

Cross sections

ceiling element straight:

all standard cross sections with double tongue and groove
thickness: 60, 80, 90, 100, 110, 120 und 140 mm
width: 100, 120, 140, 160, 180, 200, 220, 240 mm

Advantages of GLT-ceiling elements

- economic
- easy and fast in assembling
- high load capacity

ceiling element STRAIGHT (profile C)



Structural analysis of GLT_MONO ceiling elements

(for deflection of $l/300$; This table can not replace detailed structural analysis)

structural analysis of GLT_MONO ceiling elements												
<div style="text-align: center;"> <p>total load q</p> <p>span length l</p> </div> <p>ceiling elements used as single-span-girder under total load q</p>												
span length [m]	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	$q = g + p$ [kN/m ²]	$g < p$
2,0	60	60	60	60	60	60	60	60	60	60	80	
2,5	60	60	60	80	80	80	80	80	80	80	100	
3,0	80	80	80	80	80	90	90	90	90	90	100	
3,5	80	80	90	90	100	100	100	100	100	110	110	
4,0	90	90	100	100	110	110	120	120	120	120	140	
4,5	100	100	110	120	120	120	140	140	140	140	140	
5,0	110	110	120	140	140	140	140	--	--	--	--	
5,5	120	120	140	140	140	--	--	--	--	--	--	
6,0	140	140	140	--	--	--	--	--	--	--	--	
this span table should be used for a first valuation of thickness of the element,not for replace a detailed structural analysis												
<div style="text-align: center;"> <p>total load q</p> <p>span length l</p> </div> <p>ceiling elements used as multi-span-girder under total load q</p>												
span length [m]	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	$q = g + p$ [kN/m ²]	$g < p$
2,0	60	60	60	60	60	60	60	60	60	60	60	
2,5	60	60	60	60	60	60	60	60	60	60	60	
3,0	60	60	60	60	60	60	80	80	80	80	80	
3,5	60	60	80	80	80	80	80	80	80	80	80	
4,0	80	80	80	80	80	80	90	90	90	90	100	
4,5	80	80	80	90	90	90	100	100	100	100	110	
5,0	80	90	90	100	100	100	110	110	110	110	120	
5,5	90	100	100	110	110	110	120	120	120	140	140	
6,0	100	100	110	110	120	120	140	140	140	140	140	
this span table should be used for a first valuation of thickness of the element,not for replace a detailed structural analysis												

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