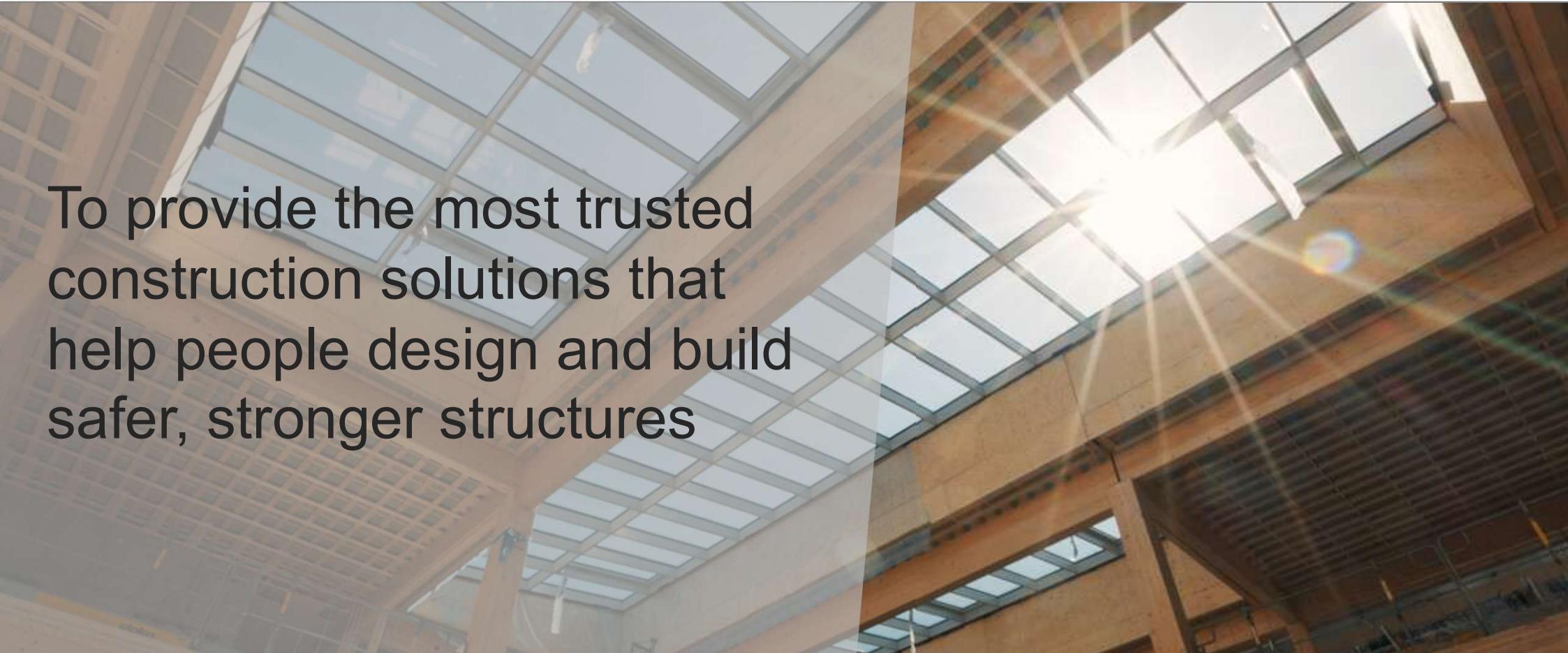


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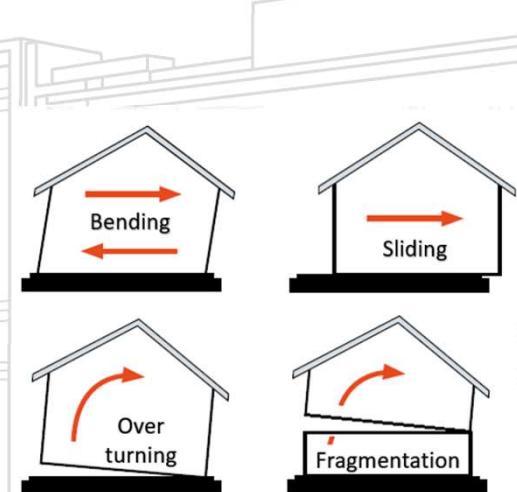
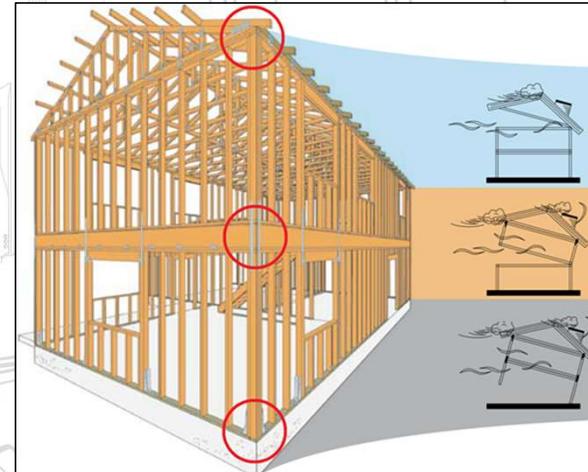
Janis Riekstins | Dec.2025



Timber structures and design principles

Continuous load path system

- Main structure connection solutions to the foundations
- Floor to Floor connection
- Roof structure and Truss connections to the building



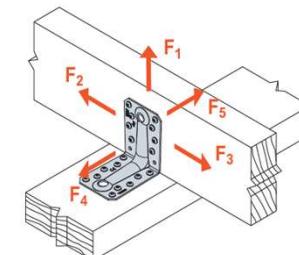
Main principles of how to indicate proper connectors in Timber structures

- Difference - Design values and Characteristic values
- How to read technical data in catalogues and ETA
- Most common failures

Beam to Beam connection (full nailing) ●●

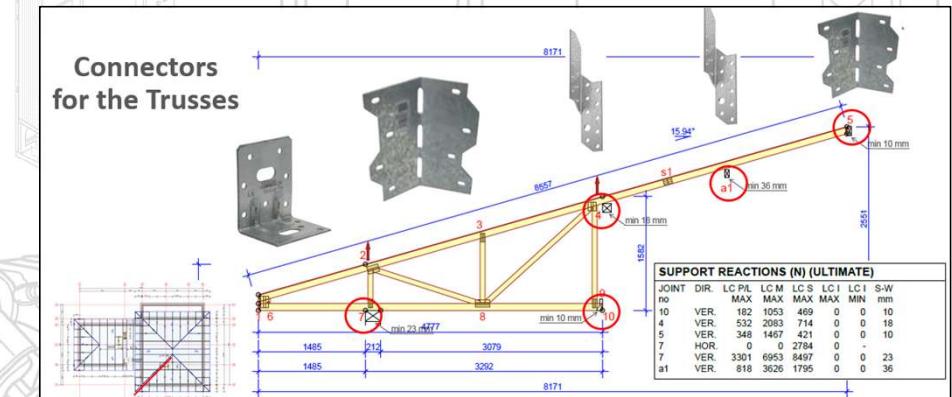
References	Fixing		Characteristic capacities Timber C24 - 2 angle brackets per connection [kN]		
	Flange A	Flange B	$R_{1,k}$	$R_{2/3,k}$	$R_{4/5,k}$
ABR7015	6xCNA4,0x40	8xCNA4,0x40	6,1	7,3	$4,8/k_{mod}^{0,3}$
ABR7015Z					
ABR9020	8xCNA4,0x40	10xCNA4,0x40	10,8	10,3	$4,9/k_{mod}^{0,7}$
ABR9020Z	8xCNA4,0x60	10xCNA4,0x60	14,9	13,0	$5,8/k_{mod}^{0,6}$
ABR10525	10xCNA4,0x40	14xCNA4,0x40	17,2	12,2	$11,5/k_{mod}^{0,4}$
ABR10525Z	10xCNA4,0x60	14xCNA4,0x60	29,5	19,7	$13,1/k_{mod}^{0,8}$

To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate



LOAD SCHEME
Beam to Beam
2 angle brackets per connection

Connectors for the Trusses





Available recourses, where to find

- BIM files
- Technical data sheets and product capacities
- Online software
- DoP, ETA



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XML IFC PDF**

BIM and CAD Library

From BIM models to XML files, our construction solutions, are ready to drop into building plans and design software in just a few clicks.



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