

EN

HASSLACHER
NORICA TIMBER

From **wood** to **wonders**.

Innovation

X-fix | The timber-to-timber connection system

The new generation of connection systems.

X-fix L

Timber-to-timber connection

For cross laminated timber wall elements

The **X-fix L** connects cross laminated timber wall elements very quickly and efficiently. The patented dovetail-shaped coupling strip is wedge-shaped and acts as a self-tightening connection.

Advantages

- Easily installable timber-to-timber connection
- Assembly from inside the room is possible
- Quick fixation with simultaneous tightening and without the need for additional tools
- Self-tensioning connector
- High mechanical properties through use of high-quality beech or birch plywood
- No steel in the connection

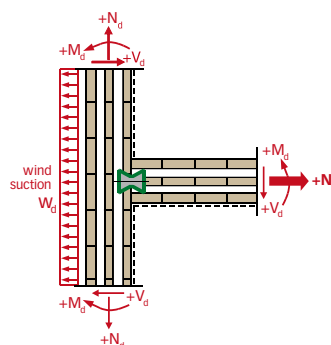
Areas of application

- Connection of cross laminated timber wall elements
- Connection in form of T- and L-joints

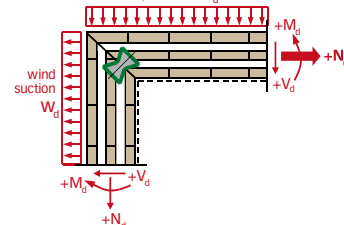
Load carrying capacity and stiffness of the X-fix L per running meter

- X-fix: beech or birch plywood
- Cross laminated timber:
HASSLACHER CROSS LAMINATED TIMBER
Panel thicknesses: 100 mm, 120 mm, 140 mm | 5-layered

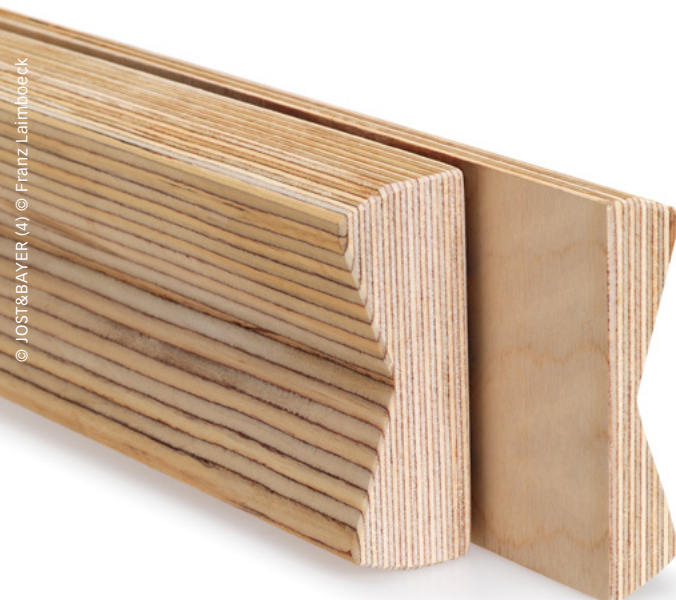
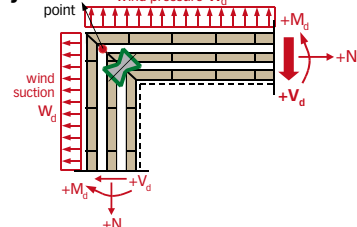
| Loading type/ Application | Load carrying capacity R_k [kN/m] | Stiffness K_{ser} [(kN/mm)/m] |
|------------------------------|--|------------------------------------|
| Tensile-T-Joint | 15.0 | 14.5 |



| | | |
|---------------------------------|------|-----|
| Tensile-corner-joint 45° | 14.0 | 8.3 |
|---------------------------------|------|-----|



| | | |
|-------------------------------|-----|-----|
| Shear-corner-joint 45° | 8.0 | 6.5 |
|-------------------------------|-----|-----|



X-fix C

Timber-to-timber connection

For cross laminated timber ceiling elements

The **X-fix C** connects cross laminated timber floor elements quickly, easily and safely. The patented dovetail-shaped coupling strip is wedge-shaped in order to enable a fast assembly by engaging the elements. Thereby, form and traction closure is achieved at the same time.

Advantages

- + Easily installable timber-to-timber connection
- + Quick fixation with simultaneous tightening and without the need for additional tools
- + Self-tensioning connector
- + High mechanical properties through use of high-quality beech or birch plywood
- + No steel in the connection
- + Step and spline joints are eliminated

Areas of application

- + Connection of cross laminated timber floor panels
- + Connection to cross laminated wall elements exposed to high shear forces

Product standard

ETA-18/0245



X-fix Cs

Minimum length 45 mm



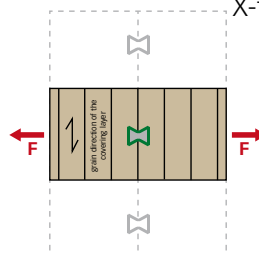
X-fix Cm

Minimum length 90 mm

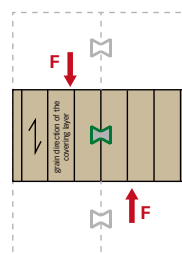
Load carrying capacity and stiffness of the X-fix C per connector

- + X-fix: beech or birch plywood
- + HASSLACHER CROSS LAMINATED TIMBER with a minimum thickness of: **X-fix Cm** 120 mm
X-fix Cs 60 mm

| Loading Type/ Application | | Load carrying capacity R_k [kN] | Stiffness K_{ser} [kN/mm] |
|------------------------------|----------|--------------------------------------|--------------------------------|
| Tension | X-fix Cm | 28.0 | 20.0 |
| | X-fix Cs | 14.0 | 20.0 |



| | | | |
|--------------|----------|------|------|
| Shear | X-fix Cm | 28.0 | 20.0 |
| | X-fix Cs | 14.0 | 20.0 |



The X-fix product family: Recommendations for design and assembly

- + Both **X-fix C** and **X-fix L** are precision-made timber-to-timber connectors and should be kept dry during storage and use.
- + For design ETA-18/0245 should be used.
- + In addition to the bearing capacity, the deformations must also be considered in the design process.
- + Damage caused by an improper application of large loads should be avoided as they reduce the load capacity of the connectors.
- + Please read and consider the provided assembly instructions.

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