

Innovation

X-fix | The timber-to-timber connection system The new generation of connection systems.

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



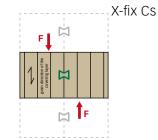
X-fix Cm Minimum length 90 mm

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

14.0





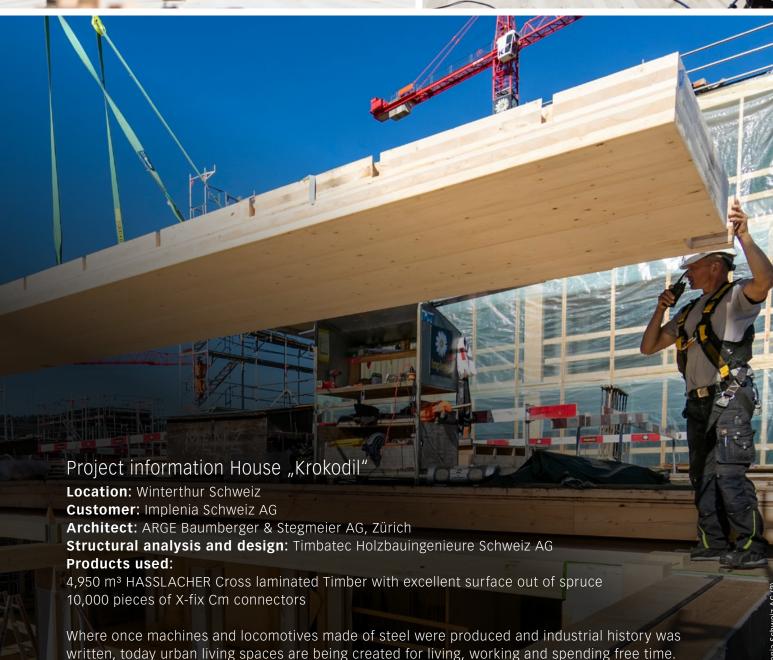
The X-fix product family: Recommendations for design and assembly

- 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.

20.0







written, today urban living spaces are being created for living, working and spending free time. The peculiar naming of the buildings of Lokstadt, bridges the gap between the old industrial site of Winterthur and the modern and innovatively designed district. The mega-project "Krokodil" - a multi-storey building with 248 apartments - is the first building in the new Lokstadt and "devours" a total of around 4,950 m³ of cross laminated timber, mainly as prefabricated ceiling elements. The homogeneous appearance of the ceiling is a result of the HASSLACHER excellent surface. In order to save valuable time when installing these ceiling elements, the 220 mm thick cross laminated timber were connected to one another with around 10,000 X-fix C wood-wood connectors.



From wood to wonders.



Development partner

X-fix wood connector GmbH Lamnitz 8 9833 Rangersdorf Austria T +43 4823 200 33 M +43 676 92 59 529

x-fix.at

office@x-fix.at

HASSLACHER group

Feistritz 1 | 9751 Sachsenburg | Austria T +43 4769 22 49-0 | F +43 4769 22 49-129 info@hasslacher.com | hasslacher.com