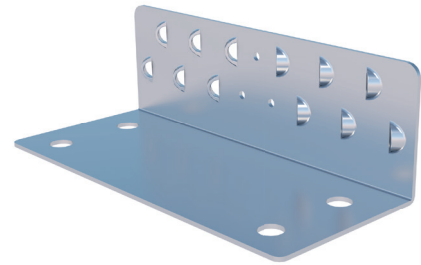


PRODUCT DATA SHEET

WC FLAT SHEARING BRACKET

PRODUCT DESCRIPTION

The WC (wood/concrete) flat shearing bracket is a bracket connector that was specifically developed for absorbing shearing forces **in modern timber constructions**. Its low height means it is ideally suited to use in timber frame construction. The **separately available pressure plate** allows the occurring loads to be optimally conducted into the concrete.



ADVANTAGES

- For installation in concrete
- Very high shear load-bearing capacity thanks to a new fastening concept
- Fewer connectors required
- When used in combination with the pressure plate, the following tensile forces can be absorbed in a concrete attachment

MATERIAL

- WC flat shearing bracket: S250 galvanised
- Pressure plate of the WC flat shearing bracket: S235 galvanised

APPLICATION IMAGE



WC flat shearing bracket with pressure plate for attaching a wall to a concrete foundation.



NOTE

May only be used in conjunction with the pressure plate of the WC flat shearing bracket (Art. no.: 954179).



INSTRUCTIONS FOR USE

For anchoring in wood, a total of 12 slanted screw connection holes and three 90° holes are available per shearing bracket. Anchoring in wood takes place with our Paneltwistec 5 x 120 mm and angle fitting screw 5 x 25 mm. Anchoring in concrete is carried out using the holes (14 mm in diameter) provided for this purpose with our rock concrete screws \varnothing 12.5 mm or bolt anchors \varnothing 12 mm.

PRODUCT DATA SHEET

WC FLAT SHEARING BRACKET

CERTIFICATION

- European Technical Assessment ETA-19/0020

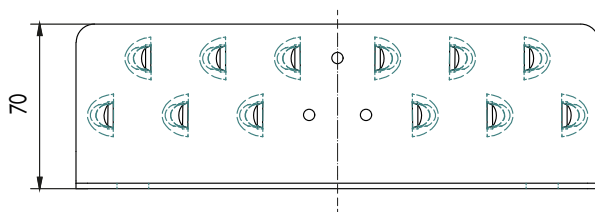


PRODUCT TABLE

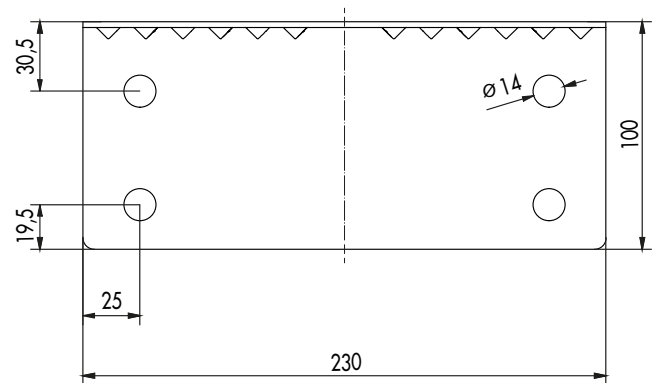
| WC flat shearing bracket | | | | |
|--------------------------|--------------------------------------------|-------------------------|-------------------------------|----|
| Art. no. | Designation | Material thickness [mm] | Dimensions ^{a)} [mm] | PU |
| 954087 | WC flat shearing bracket | 3 | 230 x 100 x 70 | 1 |
| 954179 | Pressure plate of WC flat shearing bracket | 12 | 230 x 48 x 12 | 1 |

a) Length x width x height

DRAWINGS



Front view

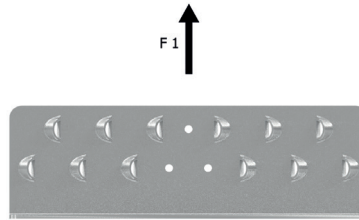


Top view

PRODUCT DATA SHEET

WC FLAT SHEARING BRACKET

STATIC VALUES



| Load direction F1 | | | | | |
|-------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------|-----------------|------------|
| | Force per shearing bracket | Fasteners | | | Steel |
| | | Two rock concrete screws | Two bolt anchors | PT SK Ø 5 x 120 | S355 |
| | $F_{1,Rk}$ [kN] | $F_{1,Rk}$ [kN] | k_{II} | Pc. | L_D [mm] |
| 230 x 100* shearing bracket + 230 base plate + two M12 screws near the bending line | 30 | 120 | 2 | 12 pc. | 10 |

* Values relate to two sets of six 5 x 120 screws and three 5 x 25 screws per side

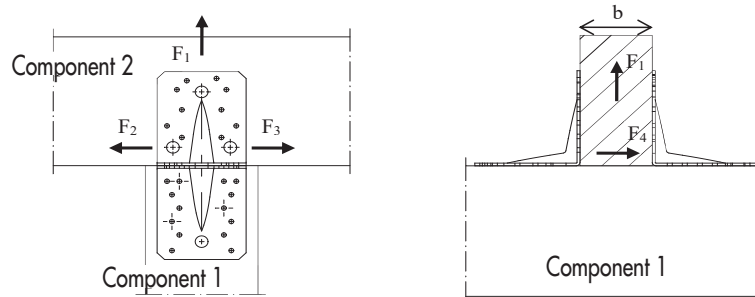


Load direction F2/3

$F_{23,Rk}$ per 230 x 100 shearing bracket with a full screw connection* / wood/concrete connection or steel connection, $pk = 350 \text{ kg/m}^3$ (six 5 x 120 screws and three 5 x 25 screws per vertical side):
 $F_{23,Rk} = \min \{40 \text{ kN}; nef \cdot F_{v,screw,Rk}\}$

where $nef = 1.89$ for two screws near the bending line, $nef = 1.48$ for two screws away from the bending line

$F_{4,Rk}$ per 230 x 100 shearing bracket with a full screw pattern* / wood/concrete connection or steel connection, $pk = 350 \text{ kg/m}^3$ (six 5 x 120 screws and three 5 x 25 screws per vertical side):
 $F_{4,Rk} = \min \{40 \text{ kN}; nB \cdot F_{v,screw,Rk}\}$



If you are not familiar with the application of this product, and particularly with the product's intended use, please contact our Application Technology Department (technik@eurotec.team).