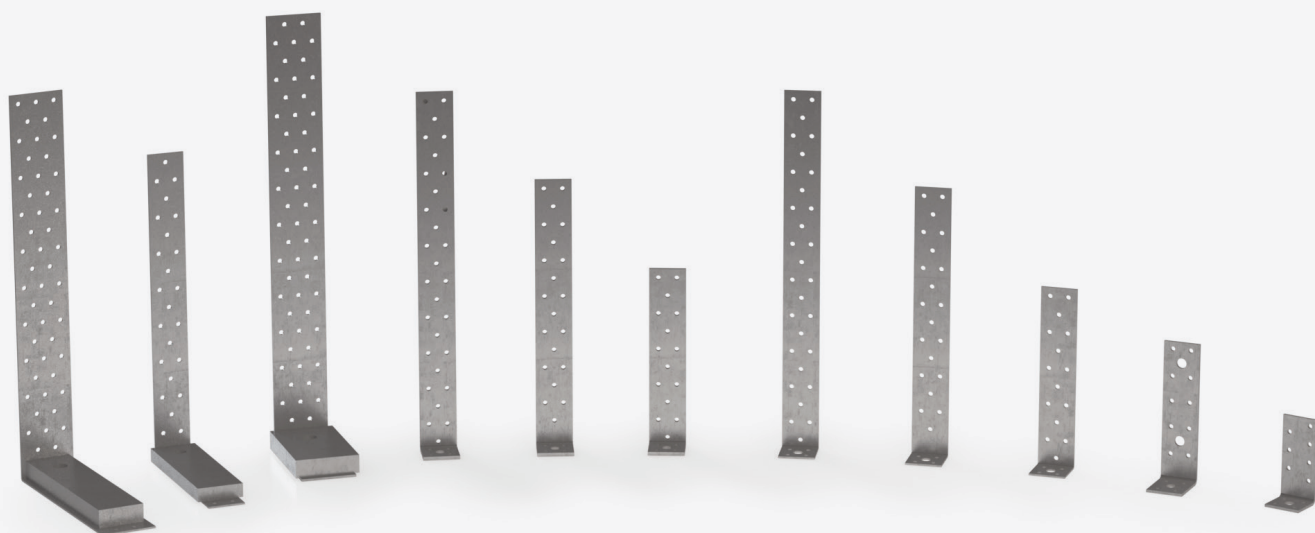


Angle bracket for tensile loads

Bright zinc plated carbon steel three-dimensional perforated plates



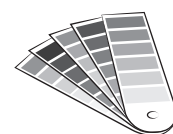
FIELD OF USE

Timber-to-timber and timber-to-concrete joints

- XLAM (Cross Laminated Timber)
- framed structures (platform frame)
- wood-based panels
- LVL (Laminated Veneer Lumber)
- solid timber
- glulam (Glued Laminated Timber)

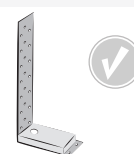
COMPLETE RANGE

Simple and effective system available in several sizes, to satisfy any application need



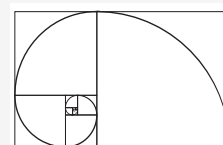
CERTIFIED STRENGTH

Suitability for use guaranteed by the CE mark, in accordance with ETA



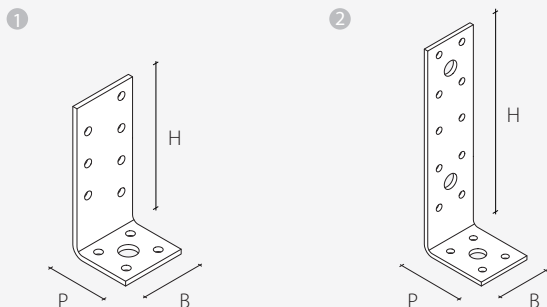
VERSATILE FIXING

Fixing with screws, nails and anchors. Hole size and disposition designed for an optimal application in any situation



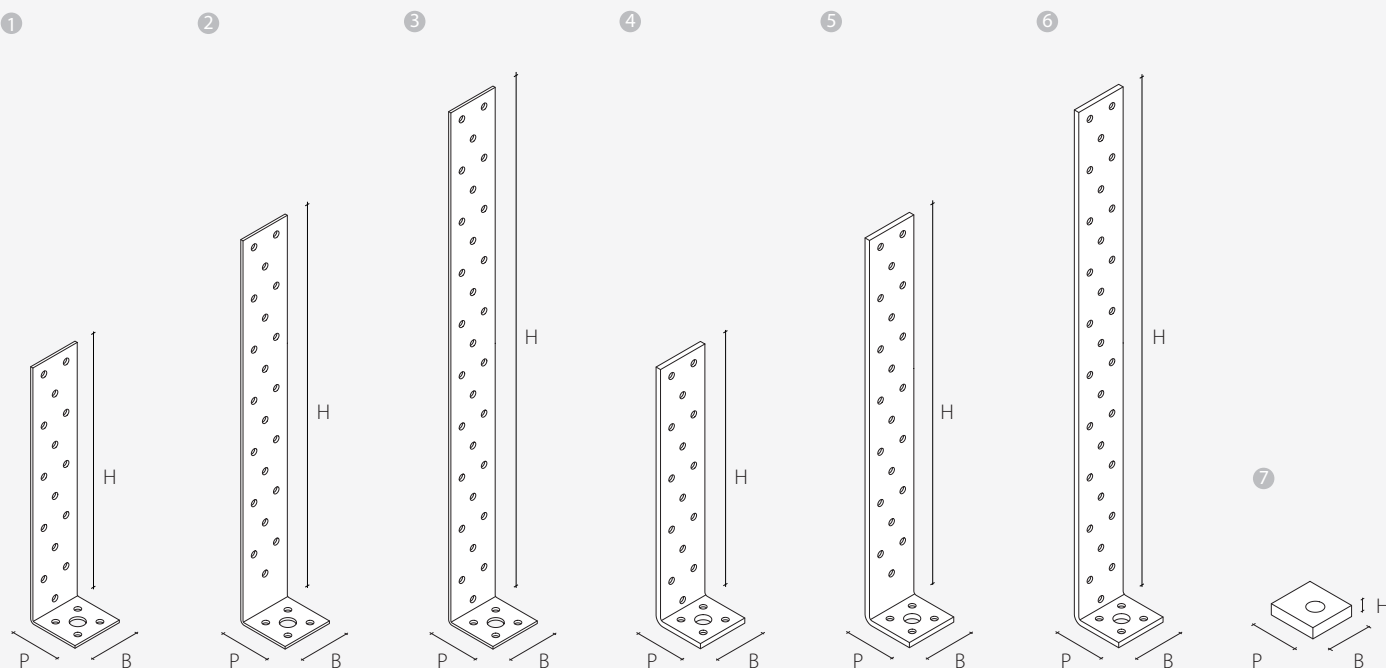
CODES AND DIMENSIONS

WZU 90/155



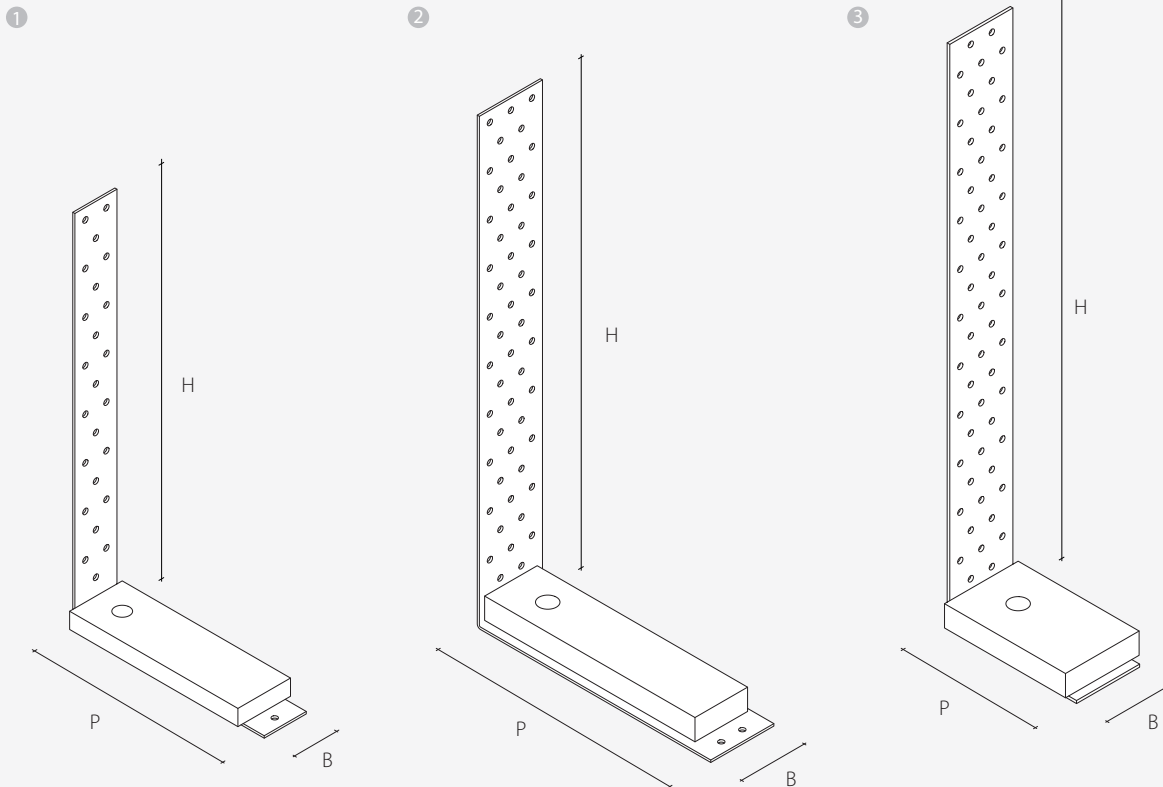
code	type	B [mm]	P [mm]	H [mm]	s [mm]	n Ø5 [pcs]	n Ø11 [pcs]			pcs/box
1 PF101080	WZU09035	40	35	90	3,0	11	1	•	•	100
2 PF101090	WZU15550	40	50	155	3,0	14	3	•	•	100

WZU 200/300/400



code	type	B [mm]	P [mm]	H [mm]	s [mm]	n Ø5 [pcs]	n Ø14 [pcs]			pcs/box
1 PF101100	WZU2002	40	40	200	2,0	19	1	•	•	100
2 PF101105	WZU3002	40	40	300	2,0	25	1	•	•	50
3 PF101110	WZU4002	40	40	400	2,0	34	1	•	•	50
4 PF101115	WZU2004	40	40	200	4,0	19	1	•	•	50
5 PF101120	WZU3004	40	40	300	4,0	25	1	•	•	50
6 PF101125	WZU4004	40	40	400	4,0	34	1	•	•	25
7 PF700005	WZUBS43	40	43	10	-	-	1	-	-	50

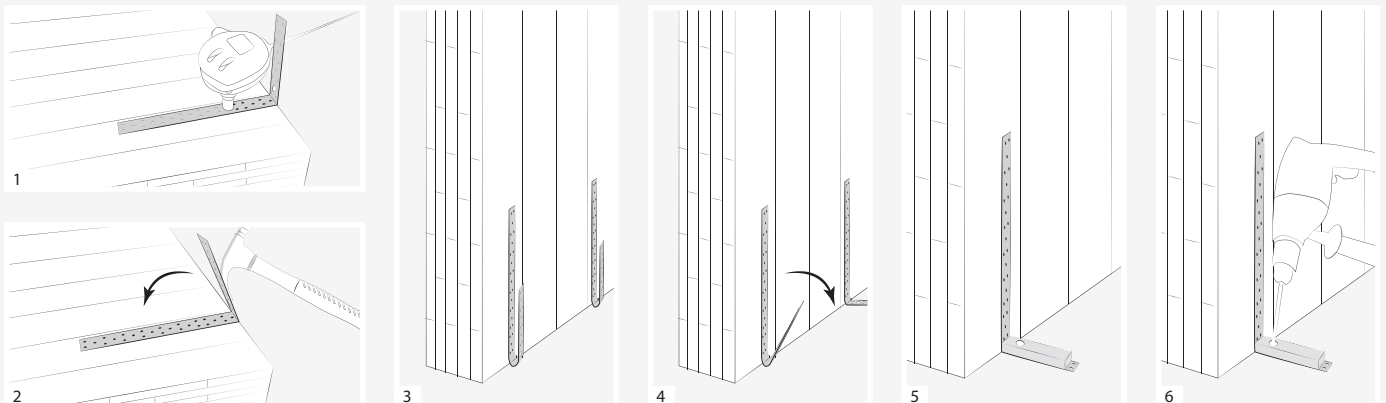
WZU STRONG



code	type	B [mm]	P [mm]	H [mm]	s [mm]	n Ø5 [pcs]	n Ø13 [pcs]	n Ø18 [pcs]	n Ø22 [pcs]	washer*			pcs/box
① PF103010	WZU342	40	182	340	2,0	39	1	-	-	160 x 50 x 15 Ø12,5	•	•	10
② PF103015	WZU422	60	222	420	2,0	79	-	1	-	200 x 60 x 20 Ø16,5	•	•	10
③ PF103020	WZU482	60	123	480	2,5	72	-	-	1	115 x 70 x 20 Ø20,5	•	•	10

* washer included in the box

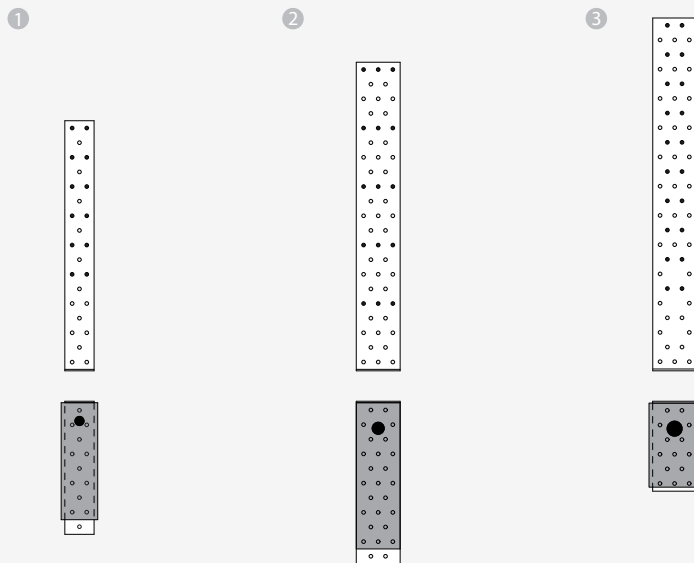
ASSEMBLING



Possibility of factory pre-assembly, to speed up the onsite installation of the pre-fabricated panels

STATIC VALUES - TENSION JOINT - TIMBER-TO-CONCRETE

WZU with washer



Different nailing patterns can be adopted

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GENERAL PRINCIPLES

- Characteristic values are consistent with EN 1995:2008 and in accordance with ETA.
- Design values can be obtained from characteristic values as follows:

$$R_d = \min \left\{ \begin{array}{l} \frac{R_{k \text{ timber}} \cdot k_{\text{mod}}}{\gamma_m} \\ \frac{R_{k \text{ steel}}}{\gamma_{\text{steel}}} \end{array} \right.$$

Coefficients γ_{steel} , γ_m and k_{mod} must be taken according to the current Standard adopted for the design.

- The fixing to the concrete must be checked separately.
- Dimensioning and verification of timber elements must be carried out separately.
- The strength values of the connection system are valid under the calculation hypotheses listed in the table; for different boundary conditions (e.g. minimum edge distances) verifications shall be carried out.