

WBR | WBO | WVS | WHO

STANDARD ANGLE BRACKETS



COMPLETE RANGE

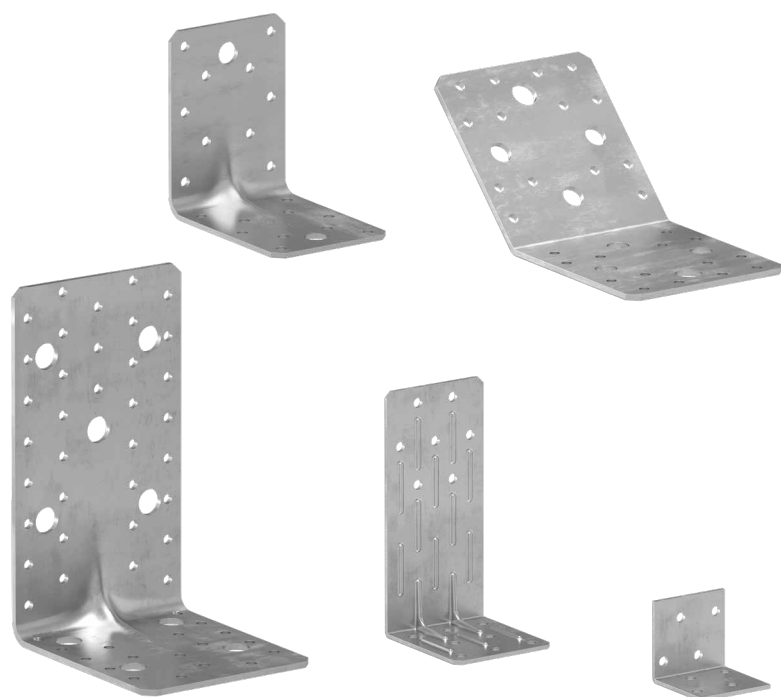
Simple and effective angle brackets available in a full range of sizes to meet all structural and non-structural needs.

TIMBER AND CONCRETE

Due to the quantity and arrangement of the fastening holes, they can be used for both timber to timber, and timber to concrete connections.

CERTIFICATION

Suitability of use is guaranteed by the CE marking according to ETA.

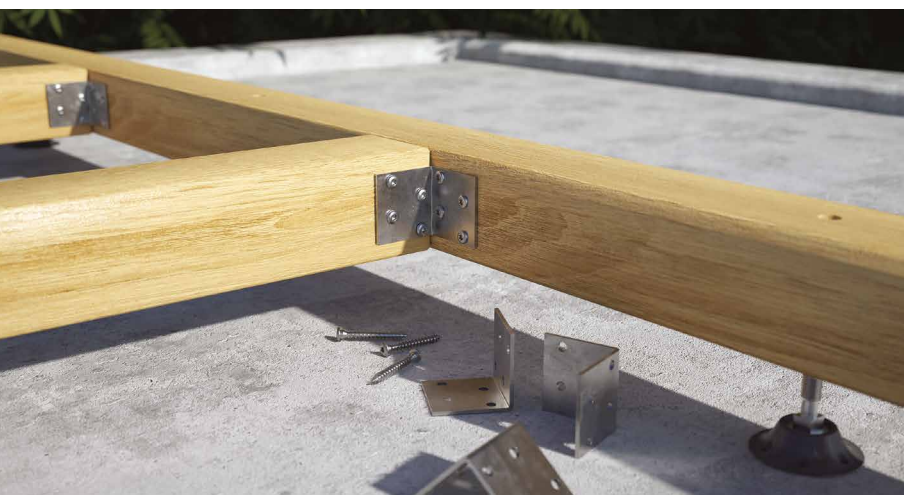


SERVICE CLASS

SC1	SC2	WBR, WBO, WVS, WHO	
SC1	SC2	SC3	WBR A2

MATERIAL

DX51D Z275	WBR: DX51D +Z275 carbon steel
A2 AISI 304	WBR A2, WHO A2, LBV A2: A2 AISI304 stainless steel
S250 Z275	WBO - WVS - WHO: S250GD +Z275 carbon steel



FIELD OF USE

Structural or non-structural applications for fastening any timber element.
Suitable for small structures, furniture and small joinery connections.

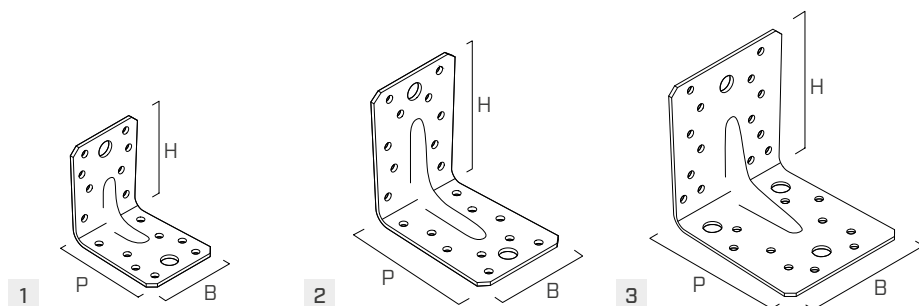
Can be applied to:

- solid timber and glulam
- LVL
- other timber-based materials

CODES AND DIMENSIONS

WBR 70-90-100

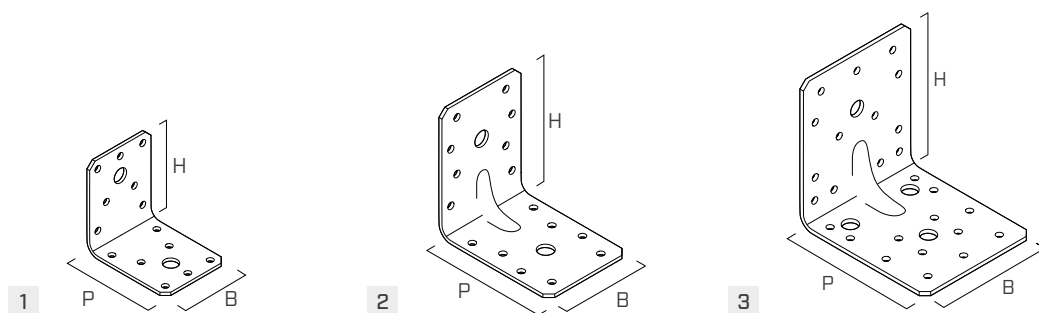
DX51D
2275



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]	n Ø11 n Ø0.44 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]					
1 WBR07015	55	70	70	1,5	2 3/16	2 3/4	2 3/4	0.06	16	2	●	●	100
2 WBR09015	65	90	90	1,5	2 9/16	3 1/2	3 1/2	0.06	20	2	●	●	100
3 WBR10020	90	105	105	2,0	3 1/2	4 1/8	4 1/8	0.08	24	4	●	●	50

WBR A2 70-90-100

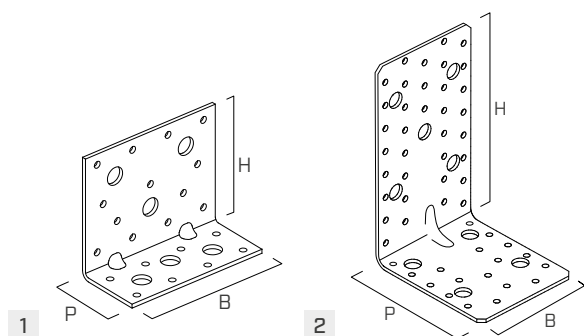
A2
AISI 304



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]	n Ø11 n Ø0.44 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]					
1 AI7055	55	70	70	2,0	2 3/16	2 3/4	2 3/4	0.08	14	2	●	●	100
2 AI9065	65	90	90	2,5	2 9/16	3 1/2	3 1/2	0.10	16	2	●	●	100
3 AI10090	90	105	105	2,5	3 1/2	4 1/8	4 1/8	0.10	26	4	●	●	50

WBR 90110-170

DX51D
2275

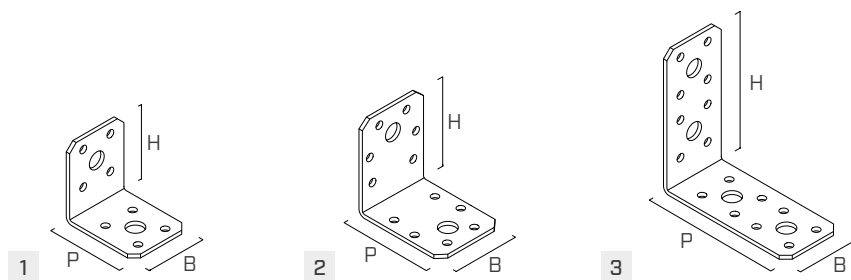


CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]	n Ø13 n Ø0.52 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]					
1 WBR90110	110	50	90	3,0	4 3/8	1 15/16	3 1/2	0.12	21	6	●	●	50
2 WBR170	95	114	174	3,0	3 3/4	4 1/2	6 7/8	0.12	53	9	●	●	25

CODES AND DIMENSIONS

WBO 50 - 60 - 90

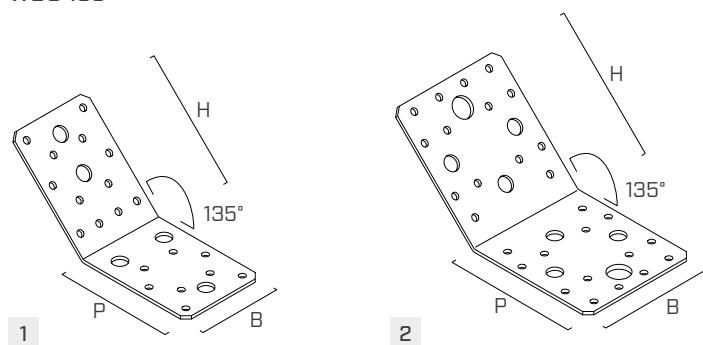
S250
Z275



c	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]	n Ø11 n Ø0.44 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]					
1 WBO5040	40	50	50	2,5	1 9/16	1 15/16	1 15/16	0.10	8	2	●	●	150
2 WBO6045	45	60	60	2,5	1 3/4	2 3/8	2 3/8	0.10	12	2	●	●	50
3 WBO9040	40	90	90	3,0	1 9/16	3 1/2	3 1/2	0.12	16	4	●	●	100

WBO 135°

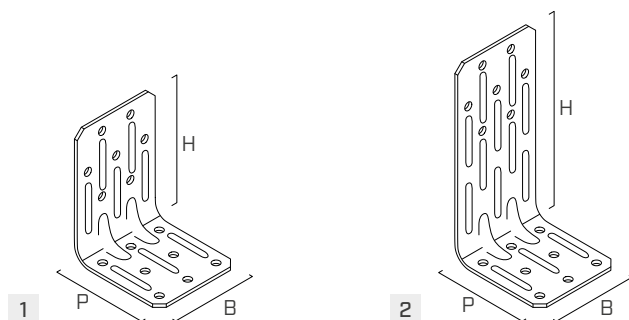
S250
Z275



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]	n Ø11 n Ø0.44 [pcs]	n Ø13 n Ø0.52 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]						
1 WBO13509	65	90	90	2,5	2 9/16	3 1/2	3 1/2	0.10	20	5	-	●	●	100
2 WBO13510	90	100	100	3,0	3 1/2	4	4	0.12	28	6	2	●	●	40

WVS 80 - 120

S250
Z275

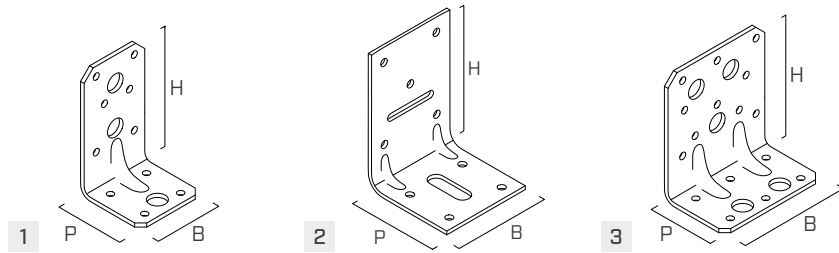


CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20 [pcs]			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]				
1 WVS8060	55	60	80	2,0	2 3/16	2 3/8	3 1/8	0.08	15	●	-	100
2 WVS12060	55	60	120	2,0	2 3/16	2 3/8	4 3/4	0.08	15	●	-	100

CODES AND DIMENSIONS

WVS 90

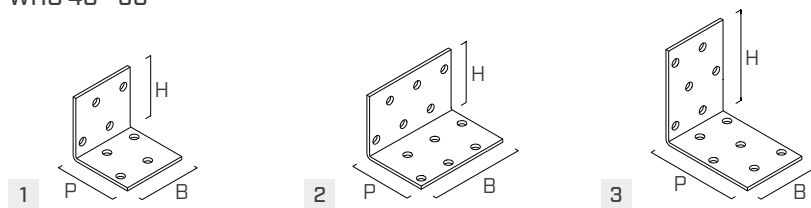
S250
2275



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20	n Ø13 n Ø0.52	n Ø _v	n Ø _H			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]	[pcs]	[pcs]	[pcs]	[pcs]			
1 WVS9050	50	50	90	3,0	115/16	115/16	3 1/2	0.12	10	3	-	-	●	●	100
2 WVS9060	60	60	90	2,5	2 3/8	2 3/8	3 1/2	0.10	9	-	1 - Ø5 x 30 1 - Ø0.20 x 13/16	1 - Ø10 x 30 1 - Ø0.40 x 13/16	●	-	100
3 WVS9080	80	50	90	3,0	3 1/8	115/16	3 1/2	0.12	16	5	-	-	●	●	100

WHO 40 - 60

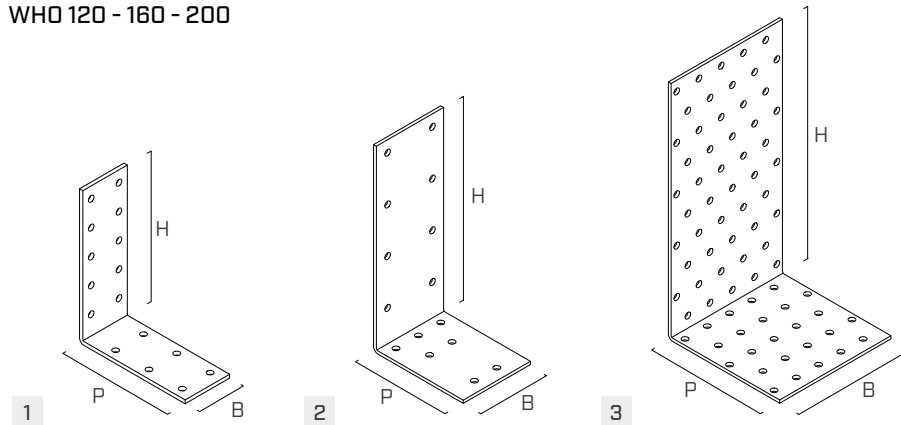
S250
2275



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20	n _v Ø5 n _v Ø0.20	n _H Ø5 n _H Ø0.20			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]	[pcs]	[pcs]	[pcs]			
1 WHO4040	40	40	40	2,0	1 9/16	1 9/16	1 9/16	0.08	8	4	4	●	-	200
2 WHO4060	60	40	40	2,0	2 3/8	1 9/16	1 9/16	0.08	12	6	6	●	-	150
3 WHO6040	40	60	60	2,0	1 9/16	2 3/8	2 3/8	0.08	12	6	6	●	-	150

WHO 120 - 160 - 200

S250
2275



CODE	B	P	H	s	B	P	H	s	n Ø5 n Ø0.20	n _v Ø5 n _v Ø0.20	n _H Ø5 n _H Ø0.20			pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]	[pcs]	[pcs]	[pcs]			
1 WHO12040	40	95	120	3,0	1 9/16	3 3/4	4 3/4	0.12	16	10	6	●	-	100
2 WHO16060	60	80	160	4,0	2 3/8	3 1/8	6 1/4	0.16	15	8	7	●	-	50
3 WHO200100	100	100	200	2,5	4	4	8	0.10	75	50	25	●	-	25

WHO A2 | AISI304 - LBV A2 | AISI304

A2
AISI 304

CODE	B	P	H	s	B	P	H	s	n Ø4,5 n Ø0.18	pcs
	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]	[pcs]	
1 WHOI1540	15	40	40	1,75	9/16	1 9/16	1 9/16	0.07	4	50
2 LBVI15100	15	100	-	1,75	9/16	4	-	0.07	4	50

