



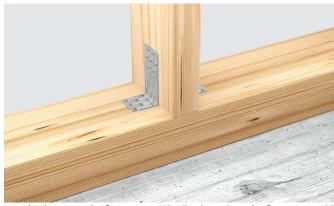


ANGLE BRACKETS

ANGLE BRACKETS TOP 80 / TOP 120

Advantages

- No bothersome centre rib during processing
- Optimised hole pattern
- Full nail fitting always possible
- High stability due to special, discreet corrugation
- Type 80 as an alternative to the "size 90 bracket"
- **GREENLINE** = resource-saving manufacturing



Introduction to statics from page 110 / Products & statics from page 120

ANGLE BRACKET 110/170 S

Advantages

- Universal use for higher loads
- 9 bolt holes Ø 13 mm
- Perfectly suited to take loads F_2 and F_3





Introduction to statics from page 110 / Products & statics from page 132

ANGLE BRACKET TOP KR 90E (EXTRA)

Advantages

- **4**0 % lighter in comparison to 90 x 90 x 65 x 2.5 mm
- High stability due to raised edge on both sides
- Versatile in use
- Alternative to different brackets such as 70 x 70 x 55 mm and 90 x 90 x 65 mm (for use under consideration of the necessary loads)
- Very good for loads due to the outer rib F_2/F_3 and F_1 suitable





Introduction to statics from page 110 / Products & statics from page 124

ANGLE BRACKETS KR

Advantages

- For connections between timber/timber; timber/concrete For use on timber/masonry etc.
- Due to the ribs in the bending radius, KR angle brackets are very sturdy, economical and affordable in use for extreme loads
- By making use of the Greenline series, you receive products with resource-saving manufacturing. This gives you an ecologically and economic advantage



Introduction to statics $from\ page\ 110$ / Products & statics $from\ page\ 134$

ASSORTMENT

					Height [mm]	Length [mm]	Width [mm]	Basics Statik & Diagramme from page	Products & Statik from page	Made of V4A
ANGLE BRACKET TOP 80/120	illi CE	250 GD Z275	NKL 2		80-120	60	55	110	120	
ANGLE BRACKET 70X70X2.0	Č.	250 GD 2275	NKL 2 1.45	71 NKL 3	70	70	55	110	122	293
ANGLE BRACKET 70X70 GREENLINE	(CE	350 GD Z275	NKL 2		70	70	55	110	122	
ANGLE BRACKET TOP KR90E) CE	250 GD Z275	NKL 2		95	85	65	110	124	
ANGLE BRACKET 90X90X2.5	in CE	250 GD Z275	NKL 2	1 NKL 3	90	90	65	110	128	293
ANGLE BRACKET 90X90 GREENLINE) CE	350 GD 2275	NKL 2		90	90	65	110	126	
ANGLE BRACKET 100X100X3.0	CE:	250 GD 2275	NKL 2	1 NKL 3	100	100	90	110	130	293
ANGLE BRACKET 100X100 GREENLINE	CE:	350 GD 2275	NKL 2		105	105	90	110	130	
STRUT CONNECTOR 135 DEGREES	CE:	250 GD 2275	NKL 2		90-100	90-100	65-90		132	
ANGLE BRACKET TYPE 110/170L	(CE	250 GD 2275	NKL 2		170	110	95	110	132	
ANGLE BRACKET KR 3 MM) CE	250 GD Z275	NKL 2		95-285	88	65	110	134	
ANGLE BRACKET KR 4 MM) CE	235 JR verzinkt	NKL 2		95-285	88	65	110	134	
ANGLE BRACKET TYPE 50/80	(C)	250 GD Z275	NKL 2		90	50	50-80	110	138	
ANGLE BRACKET TYPE 110	(C)	250 GD Z275	NKL 2		90	50	110	110	138	
ANGLE BRACKET TYPE 55/80	:0: CE	250 GD Z275	NKL 2		80	60	55	110	140	
ANGLE BRACKET TYPE 60/100	(CE	250 GD Z275	NKL 2		100	60	60	110	140	
CONSOLE ANGLE	CE:	350 GD Z275	NKL 2		120-200	54	60	110	142	
ANGLE BRACKET TYPE 40/45	(C)	250 GD Z275	NKL 2		50-90	50-90	40-45	110	144	
ANGLE BRACKET TYPE 40/90	i ce	250 GD Z275	NKL 2 1.45	1 111 NKL 3	90	90	40	110	146	294
ANGLE BRACKET TYPE 40/120	ice:	250 GD Z275	NKL 2		120	95	40	110	146	
ANGLE BRACKET TYPE 692	Œ	250 GD 2275	NKL 2		65	65	90	110	146	

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ANGLE BRACKETS

ASSORTMENT

				Height	Length	Width	Basics Statics & Diagrams from page	Products & Statics from page	Products Made of V4A from page
NAIL PLATE BRACKET	· · · · · ·	250 J NKL 2	1.4571 WKL 3	40-200	40-100	20-100		148	294
EXTRA THICK 4 MM	∭ (C€	250 J NKL 2		130-160	70	80-100	110	150	
MOUNTING BRACKET		250 J/W GD Z275 NKL 2		90	60	60	110	152	
ENTRANCE DOOR BRACKET	0 0 0	250 GD Z275 NKL 2		70	30	60		158	
Z-CONNECTOR		250 GD Z275 NKL 2		40	75	30		158	
CHAIR BRACKET	• •	250 GD Z275 NKL 2		25-120	25-120	15-20		159	
ANGLE BRACKET THICK 3-5 MM	0	250 GD Z275 NKL 2		40-180	40-180	20		159	
CONCRETE BRACKET	0	235 JR feuerveränkt NKL 2		75-150	75	60		156	
CORNER ANGLE BRACKET		250 GD Z275 NKL 2		40	40	100-250		158	



CE symbol



Steel with indication of the steel quality and galvanisation



Stainless steel with material number



Timber/timber connection



Timber/concrete-connection



Usage class 1

Moisture content in the building materials that corresponds to a temperature of 20°C and a relative humidity of the ambient air that only exceeds a value of 65% for a few weeks per year, e.g. in the case of buildings that are closed on all sides and heated. Comment: In UC 1, the average moisture content of most softwoods does not exceed 12 %.



Usage class 2

Moisture content in the building materials that corresponds to a temperature of 20° C and a relative humidity of the ambient air that only exceeds a value of 85% for a few weeks per year, e.g. in the case of open buildings covered by a roof. Comment: In UC 2, the average moisture content of most softwoods does not exceed 20 %.



Jsage class 3

Includes climatic conditions that lead to higher moisture contents than in UC 2, e.g. structures that are exposed to the weather without protection.

Eurocode 5 / DIN EN 1995-1-1 section 2.3.1.3

ANGLE BRACKETS

APPLICATIONS

Application:

Timber/timber; timber/concrete, steel connections







For use in usage classes







Materials:









Material thicknesses:

1.5 / 2.0 / 2.5 / 3.0 / 4.0 / 6.0 / 8.0 mm More on request.









Connecting element:

GH threaded nails 4.0 x 35 / 40 / 50 / 60 / 75 / 100 mm GH screws 5.0 x 25 / 35 / 40 / 50 / 60 / 70 mm

Bolt, dowel or concrete anchor M10, M12

Connecting elements from page 274