Technical Sheet

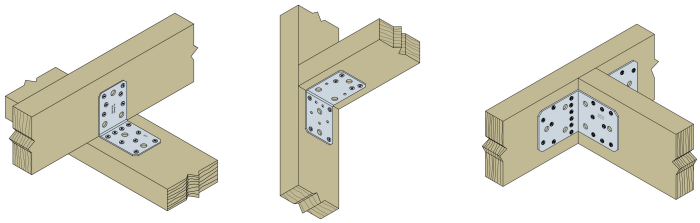
AB-S

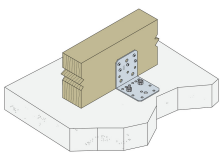
No dimple-ribs, stainless steel (70 90 105)

They are suitable for joints in load-bearing wood construction. In the case of increased demands on load capacity, we recommend using the crease. AB angle is suitable as connecting means for the connection with a small load. They are suitable for joints in wood and other materials with nails or screws.
DoP:
DE-DoP-E06 / 0106









Features

Material

Steel quality:
• Stainless steel 1.4401 or 1.4404 (V4A), in accordance with EN10088.
• Resistance to acid - A4

Benefits

• load distribution in all directions, improved values for load capacity

• Suitable for joints in wood and concrete using anchor bolts

• Suitable for attaching beams medium size.

Applications

Applicable materials

• Suitable for connections wood-wood, concrete, steel.

Application area

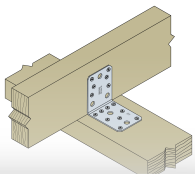
• Angles AB70,90,105 without ribs are also suitable for transverse joints and beams and columns, in the case of increased demands on load capacity, we recommend using the crease.

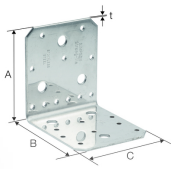
Technical Sheet

AB-S

No dimple-ribs, stainless steel (70 90 105)

Technical Data





Product Dimensions

Product Dimensions
See full table online ➡️

Reference	Tun / DB nr.												Flange B[mm]	
													Round	
													Ø8.5[mm]	Ø11[mm]
AB70S	5650114	[illegible]											1	-
AB90S	2914711	21221387	100.0	0.2	88	88	65	2.5	6	-	3	9	-	2

Product capacities - Beam to beam - maximum nailing

Product capacities - Beam to beam - maximum nailing
See full table online ➡️

Reference	Angle bracket capacity										
	Product capacities - Beam to beam - Full nailing										
										R4,k = R5,k(1)	
	CNA4.0x3[illegible]									A4.0x40	CNA4.0x6[illegible]
AB70S	3.1/kmod^[illegible]									kmod^0.3	-
AB90S	4.2/kmod^0.3	5.1/kmod^0.3	6.7/kmod^0.3	[illegible] max: 6.9/kmod	6.8	7.1	9.4	10.4	1.9/kmod^0.3	2.5/kmod^[illegible]	

Product capacitiues - Beam to beam - minimum nailing

Reference	Angle bracket capacity							
	Capacities wood-wood connection / partialnailing							
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing[kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4,k = R5,k(1)	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AB70S	2.0	3.0	3.8/kmod^0.3	-	3.8	-	1.4/kmod^0.3	-
AB90S	4.0	4.0	3.1/kmod^0.3	4.4/kmod^0.3	5.5	7.3	1.2/kmod^0.5	1.7/kmod^0.3
AB105S	4.0	5.0	5.2/kmod^0.3	7.4/kmod^0.3	4	7.5	2.1/kmod^0.5	2.9/kmod^0.4

The load capacity belongs to a load group with the modification factor k_{mod}.
1) $R_{4/5,k}$ is determined for beam width b = 75 mm and essentricity e = 130 mm. See ETA for other values of b and e.
If the overall structure prevents the rotation of the purlin, the load values $R_{1,k}$ and $R_{2/3,k}$ in an assembly with only one bracket equal to half of the given value in table 2. See ETA if the purlin is able to rotate.

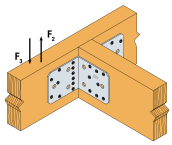
Technical Sheet

AB-S

No dimple-ribs, stainless steel (70 90 105)

Product capacities - Beam to column

Reference	Angle bracket capacity							
	Product capacities - Timber column to beam							
	Number of Fasteners		Characteristic capacities - Timber C24 - 1 angle brackets per connection[kN]					
	Joist	Flange B	$R_{2,k}=R_{3,k}$		$R_{1,k}$			
	Qty	Qty	CNA4.0x40	CNA4.0x60	Flap turned downwards		Flap turned upwards	
					CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AB90S	4.0	4.0	0.7/ kmod	0.7/ kmod	4.0/ kmod^0.75	4.0/ kmod^0.75	5.2/ kmod^0.55	5.2/ kmod^0.55
AB105S	6.0	5.0	1.4/ kmod	1.4/ kmod	8.1/ kmod^0.75	8.1/ kmod^0.75	10,0; max:9,8/ kmod	9.4/ kmod^0.6



Product capacities - trimmer connection

Reference	Angle bracket capacity			
	Product capacities - Trimmer connection			
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing[kN]	
	Joist	Flange B	$R_{2,k}=R_{3,k}$	
	Qty	Qty	CNA4.0x40	CNA4.0x60
AB90S	9.0	6.0	7.2	10.2
AB105S	11.0	8.0	13.3	18.1

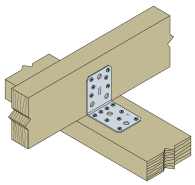
Product capacities - Timber to concrete

Reference	Angle bracket capacity											
	Product capacities - Timber beam to concrete											
	Number of Fasteners				Characteristic capacity - 2 angle brackets per connection - full nailing[kN]							
	Joist		Flange B		$R_{1,k}$				$R_{2,k}=R_{3,k}$			
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60
AB90S	5.0	CNA*	2.0	Ø10	5.4/kmod	5.4/kmod	5.4/kmod	5.4/kmod	4.73	5.03	6.3	6.66
AB105S	5.0	CNA*	2.0	Ø10	min(12.3 ; 11.3/kmod)	min(13.7 ; 11.3/kmod)	min(17.5 ; 11.3/kmod)	min(19.7 ; 11.3/kmod)	4.8	5.1	6.4	6.8

Technical Sheet

AB-S

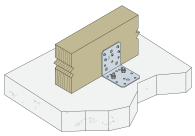
No dimple-ribs, stainless steel (70 90 105)



Simplified characteristic capacities - beam to beam

Reference	Angle bracket capacity					
	Simplified product capacities - Timber to timber – Full nailing					
	Number of Fasteners		Characteristic Capacities - Timber C24 - 2 Angle Brackets per Connection[kN]			
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
AB90S	6.0	9.0	4.3	6.9	6.8	9.4
AB105S	8.0	11.0	7.2	11.5	12.2	16.9

The published characteristic capacity is based on short term load duration and service class 2 according to EC5 (EN 1995) – k_{mod} = 0.9. For other load duration and service class, please refer to the ETA to get more accurate capacities.



Simplified characteristic capacities - beam to concrete

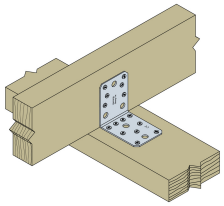
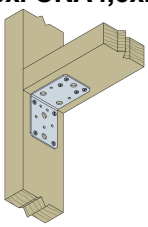
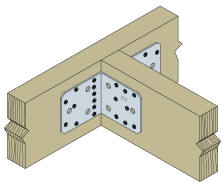
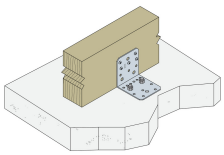
Reference	Angle bracket capacity							
	Simplified product capacities - Timber to Concrete							
	Number of Fasteners				Characteristic Capacities - Timber C24 - 2 Angle Brackets per Connection[kN]			
	Joist		Flange B		$R_{1,k}$		$R_{2,k}=R_{3,k}$	
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
AB90S	5.0	CNA*	2.0	Ø10	6	6	4.7	6.25
AB105S	5.0	CNA*	2.0	Ø10	12.3	12.5	4.9	6.4

The published characteristic capacity is based on short term load duration and service class 2 according to EC5 (EN 1995) – k_{mod} = 0.9. For other load duration and service class, please refer to the ETA to get more accurate capacities

Installation

Installation

- **connections using screws or nails CSA5,0xl CNA4,0xl**

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