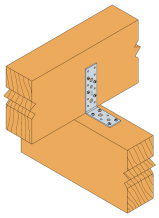
Technical Sheet

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They are ideal for those connections that need to transfer large forces, such as rafters, purlins, wood beams
40412 bracket are 4 mm thick, saving angle is AG40312 only 3 mm thick





Features

Material

Steel quality:

- **S250GD + Z275 according to DIN EN10346**

Corrosion protection:

- **275 g / m galvanized on both sides 20mm**

Benefits

- **Universal bracket for supporting a structural purposes**

Applications

Applicable materials

- **Wood and wood products**

Application area

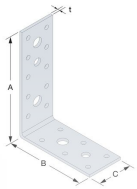
- **Wood and wood products**

Values for joint wood and wood, two connections
Values for wood and concrete joint, two connecting

Technical Sheet

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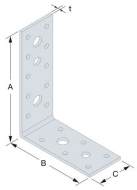
Technical Data



Product Dimensions

Product Dimensions
See full table online ➡️

Reference	Tun / DB nr.												Flange B[mm] Round	
													Ø8.5[mm]	Ø11[mm]
AG40312	1680602	21220818	100.0	0.16	116	91	40	3	10	1	2	6	1	1
AG40412	8977720	21594494	50.0	0.24	120	92	40	4	10	1	2	6	1	1



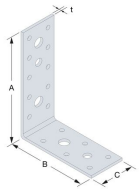
Product Capacities - Beam to Beam and Beam to Column

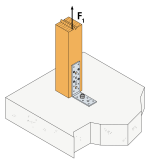
Reference	Angle bracket capacity							
	Product capacities - Timber to timber - Beam to beam - Full nailing							
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing[kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$[kN]		R4/5,k	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AG40312	4	4	3	4,2/kmod^0,3	3.3	5	1,3/kmod^0,25	1,8/kmod^0,25
AG40412	4	4	3	4.9	3.2	4.4	1,4/kmod^0,25	2,2/kmod^0,25
AG40314	4	4	3	4,2/kmod^0,3	3.3	5	1,3/kmod^0,25	1,8/kmod^0,25
AG40414	4	4	3	4.9	3.2	4.4	1,4/kmod^0,25	2,2/kmod^0,25

To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate.

Technical Sheet

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Product Capacities - Beam or Column to concrete

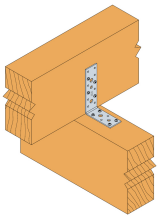
Reference	Angle bracket capacity									
	Product capacities - Timber to Concrete									
	Number of Fasteners				Characteristic capacity - 2 angle brackets per connection - full nailing[kN]					
	Joist		Flange B		$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4/5,k	
	Qty	Type	Qty	Type	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AG40412	4	CNA	1	M10 Bolt	min (10,5 ; 8,1/kmod)	8,1/kmod	min (1,0 ; 1,0/kmod)	1,0/kmod	min (4,3 x kmod^0,5 ; 2,9/kmod)	min (4,3 ; 2,9/kmod)
AG40414	4	CNA	1	M10 Bolt	min (10,5 ; 8,1/kmod)	8,1/kmod	min (1,0 ; 1,0/kmod)	1,0/kmod	min (4,3 x kmod^0,5 ; 2,9/kmod)	min (4,3 ; 2,9/kmod)

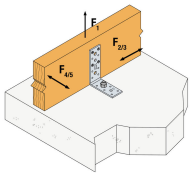
The load capacity belongs to a load group with the modification factor k_{mod}.
1) $R_{4/5,k}$ is determined for beam width b = 75 mm and essentricity e = 130 mm. See ETA for other values of b and e.
If the overall structure prevents the rotation of the purlin, the load values $R_{1,k}$ and $R_{2/3,k}$ 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.
The Bolt must have a characteristic withdrawal strength of min. 10 kN and used with a washer US60/60/6. In case of lower Bolt strengtf, the capacity must be reduced accordingly.

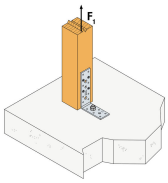
Installation

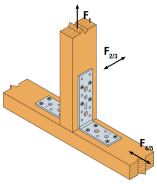
Fixing

- The fixing needs to be done with CNA4,0xℓ threaded nails or CSA5,0xℓ screws.
- The fixing needs to be done with a M10 bolt and US60x60x6 washer for fixing on concrete.









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