

AE
Úhelník

Tyto úhelníky se používají pro spoje dřevo/dřevo, nebo pro připojení dřevěných konstrukcí do betonu, oceli, zdiva

Features

Materiál

Kvalita oceli:

- S250GD+Z275 dle norem DIN EN10346

Ochrana proti korozi:

- 275 g/m pozinkováno z obou stran cca 20mm

Vorteile

- Připojení dřevo/beton
- Zatížení ve všech směrech 4

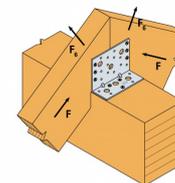
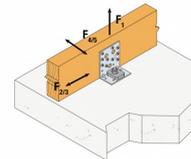
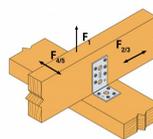
Applications

Anwendbare Materialien

Dřevo, dřevěné materiály, beton ,ocel

Anwendungsbereich

- Spojte prvků ze dřeva nebo dřevěných materiálů na komponenty vyrobené ze dřeva / dřevěných materiálů nebo betonu / oceli



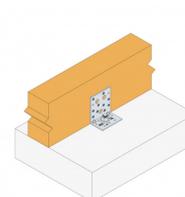
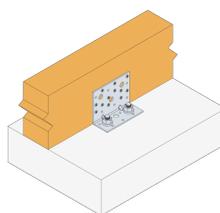
AE48



AE76



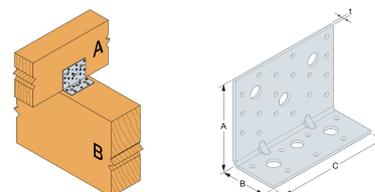
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Úhelník

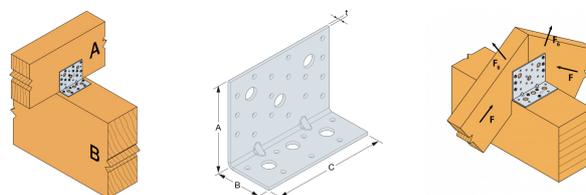
Technical Data

Rozměry a typické hodnoty



Art. nr.	Rozměry a typické hodnoty [mm]				Příruba A		Hlava		Box Quantity	Hmotnost [kg]
	A	B	C	t	Ø5	Ø13	Ø5	Ø13		
AE48	90	48	48	3	7	2	4	1	100	0.13
AE76	90	48	76	3	12	3	7	1	100	0.21
AE116	90	48	116	3	18	3	7	3	50	0.34

Tragfähigkeiten Holz/Holz Anschluss -
Vollausnagelung



Art. nr.	Product capacities - Timber to timber - Maximum nailing					
	Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	$R_{1,k}$		$R_{2,k} = R_{3,k}$		$R_{4,k} = R_{5,k}$	
	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AE48	2.9	4.9	4	6	1.3/kmod ^{0.25}	2.0/kmod ^{0.25}
AE76	5.8	9.8	11.6	15.6	2.9/kmod ^{0.25}	4.2/kmod ^{0.25}
AE116	5.8	9.8	16.6	23.2	3.2/kmod ^{0.25}	4.7/kmod ^{0.25}

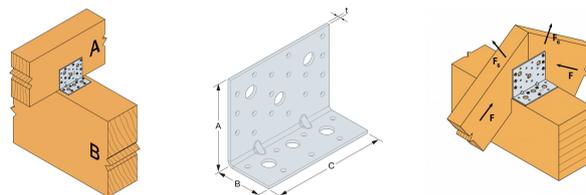
1) $R_{4/5}$ is determined for beam width $b = 75$ mm and eccentricity $e = 130$ mm.

The load capacity belongs to a load group with the modification factor k_{mod} .

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 the table

* For higher F_2/F_3 capacities, Load combination and other nail patterns, refer to ETA-06/0106

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Tragfähigkeit Teilausnagelung

Art. nr.	Product capacities - Timber to timber - Partial nailing							
	Upevňovací prvky		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	Příruba A	Hlava	R _{1,k}		R _{2,k} = R _{3,k}		R _{4,k} = R _{5,k}	
	Množství	Množství	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4,0x40	CNA4,0x60
AE48	4	4	2.9	4.9	3.9	5.4	1.3/kmod ^{0.25}	2.0/kmod ^{0.25}
AE76	7	7	5.8	9.8	9.5	13.1	2.9/kmod ^{0.25}	4.2/kmod ^{0.25}
AE116	8	7	5.8	9.8	13.8	19.4	3.2/kmod ^{0.25}	4.7/kmod ^{0.25}

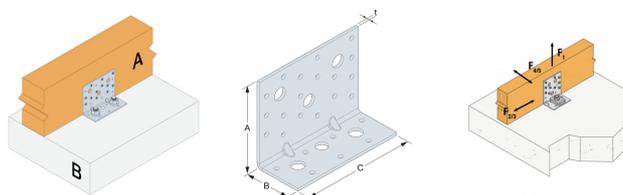
1) R_{4/5} is determined for beam width b = 75 mm and eccentricity e = 130 mm.

The load capacity belongs to a load group with the modification factor k_{mod}.

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 the table

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Characteristic capacities - Timber to concrete



Art. nr.	Product capacities - Timber to Concrete									
	Upevňovací prvky				Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	Příruba A		Hlava		R _{1,k}		R _{2,k} = R _{3,k}		R _{4,k} = R _{5,k}	
	Množství	Typ	Množství	Typ	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4,0x40	CNA4,0x60
AE48	6	CNA*	1	M12	min: 14.9 ; 12.6/kmod	12.6/kmod	2.1	3.5	min: 5.2 ; 4.2/kmod ^{0.7}	4.2/kmod ^{0.7}
AE76	9	CNA*	1	M12	min: 22.7 ; 16.8/kmod	16.8/kmod	7.5	11.2	min: 8.5 ; 6.1/kmod	6.1 / kmod
AE116	12	CNA*	2	M12	25.1	min: 38.1 ; 28.1/kmod	25.8	27.7	9,1 / kmod ^{0.2}	min: 14 ; 10/kmod

1) R_{4/5} is determined for beam width b = 75 mm and eccentricity e = 130 mm.

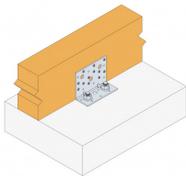
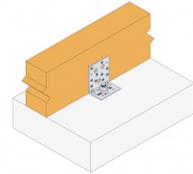
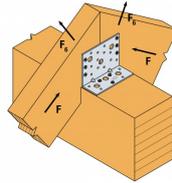
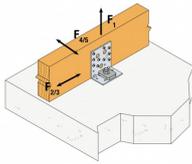
The load capacity belongs to a load group with the modification factor k_{mod}. The characteristic anchoring strength of the bolt must be minimum 15,3 kN for both withdrawal and shear force. The bearing capacity value for the assembly must be reduced proportionally if the bearing capacities of the bolt is less than 15,3 kN.

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 the table

*For higher F_{2/F3} capacities, Load combination and other nail patterns, refer to ETA-06/0106

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Installation



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