Technical Sheet

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**

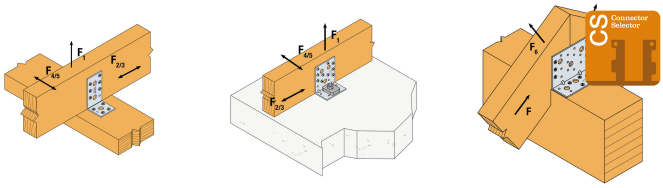
Applications

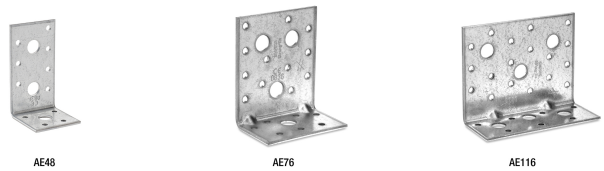
Anwendbare Materialien

Dřevo, dřevěné materiály, beton ,ocel

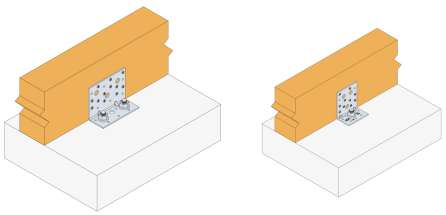
Anwendungsbereich

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





AE48 AE76 AE116

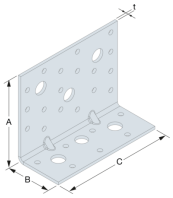


Technical Sheet

AE
Úhelník

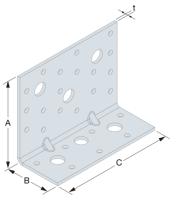
Technical Data

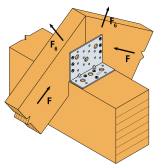
Rozměry a typické hodnoty



Reference	konektor rozměry									
	ostatní		rozměry výrobku[mm]				nosník[mm]		příruba B[mm]	
	množství v krabici	hmotnost[kg]	A[mm]	B[mm]	C[mm]	tloušťka[mm]	kulatý		kulatý	
							Ø5[mm]	n	Ø5[mm]	n[mm]
AE48	100.0	0.13	90	48	48	3	7	2	4	1
AE76	100.0	0.21	90	48	76	3	12	3	7	1
AE116	50.0	0.34	90	48	116	3	18	3	7	3

Tragfähigkeiten Holz/Holz Anschluss - Vollausnagelung



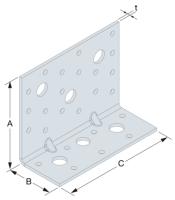


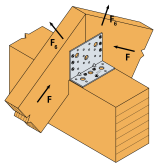
Reference	úhelník únosnost					
	výrobek capacities - dřevo to dřevo - Beam to beam - Full nailing					
	charakteristická únosnost - 2 angle brackets per connection - full nailing[kN]					
	$R_{1,k}$		$R_{2,k}=R_{3,k}$[kN]		R4/5,k	
	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AE48	3	4.9	4	6	1.3/kmod^0.25	2.0/kmod^0.25
AE76	5.9	9.8	11.6	15.7	2.9/kmod^0.25	4.2/kmod^0.25
AE116	5.9	9.8	16.5	23	3.2/kmod^0.25	4.7/kmod^0.25

1) $R_{4/5}$ is detemined 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 $F_{2/F3}$ capacities, Load combination and other nail patterns, refer to ETA-06/0106

Technical Sheet

AE
Úhelník

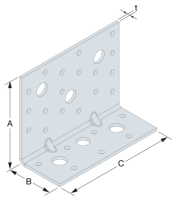


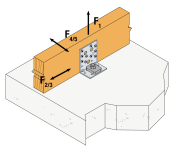


Tragfähigkeit Teilausnagelung

Reference	úhelník únosnost							
	výrobek capacities - dřevo to dřevo - Partial nailing							
	počet of Fasteners		charakteristická únosnost - 2 angle brackets per connection - full nailing[kN]					
	nosník	příruba B	$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4,k = R5,k(1)	
	množství	množství	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
AE48	4.0	4.0	2.9	4.9	3.9	5.4	1.3/kmod^0.25	2.0/kmod^0.25
AE76	7.0	7.0	5.8	9.8	9.5	13.1	2.9/kmod^0.25	4.2/kmod^0.25
AE116	8.0	7.0	5.8	9.8	13.8	19.4	3.2/kmod^0.25	4.7/kmod^0.25

1) $R_{4/5}$ is detemined 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 $F_{2/F3}$ capacities, Load combination and other nail patterns, refer to ETA-06/0106





Characteristic capacities - Timber to concrete

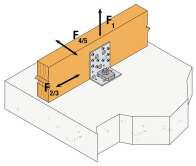
Reference	úhelník únosnost									
	výrobek capacities - dřevo to beton									
	počet of Fasteners				charakteristická únosnost - 2 angle brackets per connection - full nailing[kN]					
	nosník		příruba B		$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4/5,k	
	množství	typ	množství	typ	CNA4.0x40	CNA4.0x60	CNA4.0x40	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

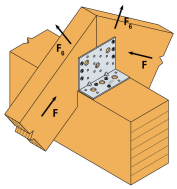
1) $R_{4/5}$ is detemined for beam width b = 75 mm and eccentricity e = 130 mm.
The load capacity belongs to a load group with the modification factor k_{mod}. The characteristic anchoring strength of the bolt must be minimum 15,3 kN for both withdrawal and shear force. The bearing capacity value for 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

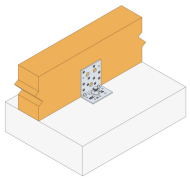
Installation

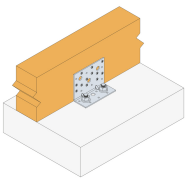
Ostatní

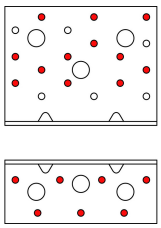
- Upevnění CNA4,0xℓ hřebíky nebo šrouby CSA5,0xℓ.
- Pro montáž do betonu lze použít jeden nebo dva M12 kotevními šrouby s podložkou40 x 40 x 10 mm.

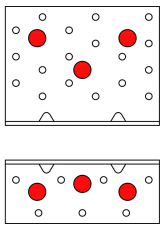


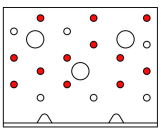


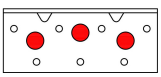












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