



Du fait de sa largeur importante, l'équerre AE116 est particulièrement adaptée aux reprises de charges latérales. Elle peut être utilisée à la fois sur support bois ou sur support rigide.

[FR-DoP-e06/0106](#), [ETA-06/0106](#)



CARACTÉRISTIQUES



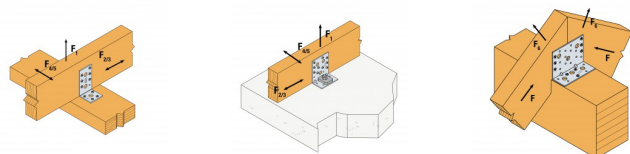
Matière

Steel quality: Pre-galvanised S250GD & Z275 according to EN10346

Corrosion protection: 275 g/m2 on both sides with a zinc thickness on 20 µm

Avantages

Is either used for assemblies with wood-wood or wood-concrete.



APPLICATIONS

Support

Wood-wood assembly.

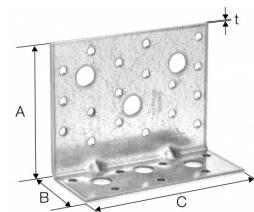
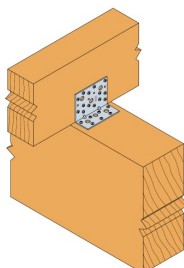
Wood-concrete assembly.

Domaines d'utilisation

Used for wood-wood assemblies on concrete in supporting constructions.

DONNÉES TECHNIQUES

Dimensions



Références	Dimensions [mm]				Perçages Aile A		Perçages Aile B	
	A	B	C	t	Ø5 [mm]	Ø13 [mm]	Ø5 [mm]	Ø13 [mm]
AE76	90	48	76	3	12	3	7	1
AE116	90	48	116	3	18	3	7	3

Valeurs caractéristiques - Bois sur bois - Clouage total

Références	Valeurs caractéristiques - Connexion bois sur bois - Clouage total													
	Fixations		Valeurs caractéristiques - Connexion bois sur bois C24 - 2 équerres [kN]											
	Aile A	Aile B	R _{1,k}				R _{2,k} = R _{3,k}				R _{4,k} = R _{5,k}			
	Qté	Qté	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60
AE76	9	7	5.1	5.8	7.7	9.8	-	11.6	-	15.6	2.5/ kmod ^{0.25}	2.9/ kmod ^{0.25}	3.6/ kmod ^{0.25}	4.2/ kmod ^{0.25}
AE116	12	7	5.1	5.8	7.7	9.8	-	16.6	-	23.2	2.8/ kmod ^{0.25}	3.2/ kmod ^{0.25}	4/ 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/F3} capacities, Load combination and other nail patterns, refer to ETA-06/0106

Valeurs caractéristiques - Bois sur bois - Clouage partiel

Références	Valeurs caractéristiques - Connexion bois sur bois - Clouage partiel													
	Fixations		Valeurs caractéristiques - Connexion bois sur bois C24 - 2 équerres [kN]											
	Aile A	Aile B	R _{1,k}				R _{2,k} = R _{3,k}				R _{4,k} = R _{5,k}			
	Qté	Qté	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x30	CNA4.0x40	CNA4.0x50	CNA4.0x60
AE76	7	7	5.1	5.8	7.7	9.8	-	9.5	-	13.1	2.5/ kmod ^{0.25}	2.9/ kmod ^{0.25}	3.6/ kmod ^{0.25}	4.2/ kmod ^{0.25}
AE116	8	7	5.1	5.8	7.7	9.8	-	13.8	-	19.4	2.8/ kmod ^{0.25}	3.2/ kmod ^{0.25}	4/ 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/F3} capacities, Load combination and other nail patterns, refer to ETA-06/0106

Characteristic capacities - Timber to concrete

Références	Valeurs caractéristiques - Connexion bois sur support rigide															
	Fixations				Valeurs caractéristiques - Connexion bois sur bois C24 - 2 équerres [kN]											
	Aile A		Aile B		R _{1,k}				R _{2,k} = R _{3,k}				R _{4,k} = R _{5,k}			
	Qté	Type	Qté	Type	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6	CNA4.0x6
AE76	9	CNA*	1	M12	min: 18.7 ; 16.8/ kmod	min: 22.7 ; 16.8/ kmod	16.8/ kmod	16.8/ kmod	-	7.5	-	11.2	3.1/ kmod^0.25	3.5/ kmod^0.25	4.4/ kmod^0.25	5.2/ kmod^0.25
AE116	12	CNA*	2	M12	20.7	25.1	min: 33.3 ; 28.1/ kmod	min: 38.1 ; 28.1/ kmod	-	25.8	-	27.7	8.8/ kmod^0.25	10.1/ kmod^0.25	min: 12.9 ; 10.6/ kmod^0.25	min: 15.7 ; 11.5/ kmod

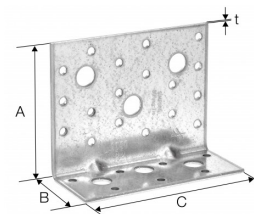
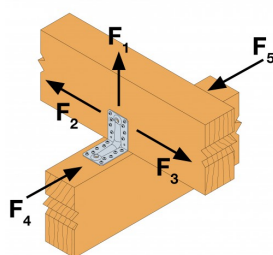
1) R_{4/5} is determined for beam width b = 75 mm and eccentricity e = 130 mm.

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

Valeurs caractéristiques - Poutre CLT sur poutre CLT - Vis connecteurs Ø12 - 2 équerres

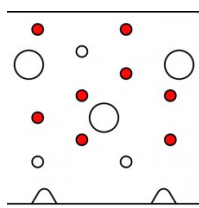
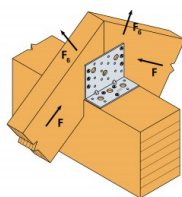
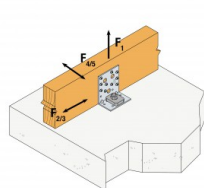


Références	Valeurs caractéristiques - Poutre CLT sur poutre CLT - Vis connecteurs Ø12 - 2 équerres					
	Fixations				Valeurs caractéristiques - Bois CLT - 2 équerres par assemblage [kN]	
	Aile A		Aile B		R _{1,k}	R _{2,k} = R _{3,k}
	Quantité	Type	Quantité	Type	SSH12x80	SSH12x80
AE116	3	SSH	3	SSH	33	29.5

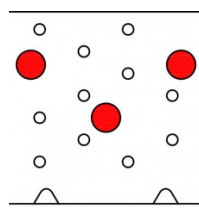
MISE EN OEUVRE

Fixations

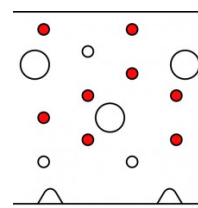
- **Bois sur bois :**
 - CNA Ø 4.0 x 35 - 40 - 50 - 60 mm,
 - CSA Ø 5.0 x 35 - 40 - 50 mm.
- **Bois sur béton :**
 - Un ou deux boulons M12 avec rondelle US40/40/10G.
- **CLT sur CLT :**
 - SSH Ø 12.0 x 80 mm (pour AE116)



Fixation sur
support bois



Fixation sur
support bois –
Vis connecteurs



Fixation sur
support rigide

