

Technical data sheet

SIMPSON

Strong-Tie

ANP

Nail plate angle bracket

The ANP angle brackets are suitable for crossing wood / wood connections, replacements and sleepers / post connections.

Features

Material

Steel quality:

S250GD + Z275 according to DIN EN10346

Corrosion protection:

275 g / m galvanized on both sides 20mm

Benefits

- The angle connector of perforated sheets are available in many different sizes.
- Optimal use in many areas. The number of openings allows different combinations of connectivity, load according to ETA.

Applications

Applications

Supporting member:

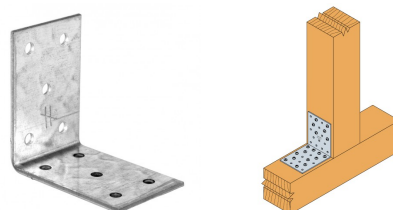
Solid wood, engineered wood

Supported member:

Solid wood, engineered wood

Scope

- The ANP angle connector of perforated sheets are suitable for cross connections, replacements and beam / post connections.

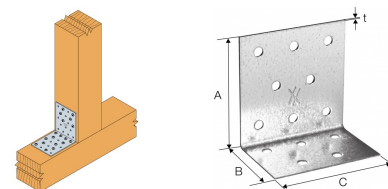


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Technical Data

Product Dimensions

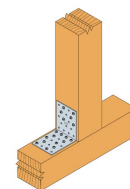


References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]				Joist	Holes flange B	Box Quantity	Weight [kg]
			A	B	C	t	Ø5 [mm]	Ø5 [mm]		
ANP254440 *	7742398	28998490	42.5	42.5	40	2.5	3	3	200	0.062
ANP254460 *	1644046	21221080	42.5	42.5	60	2.5	5	5	150	0.089
ANP254660	8258162	21221098	42.5	62.5	60	2.5	7	5	150	0.11
ANP256640 *	1680636	21221114	62.5	62.5	40	2.5	5	5	100	0.09
ANP256650	5650395	21221015	62.5	62.5	50	2.5	6	6	150	0.11
ANP256660	4618724	21221122	62.5	62.5	60	2.5	8	8	100	0.14
ANP256680	1644053	21221130	62.5	62.5	80	2.5	11	11	100	0.18
ANP2566100	5653399	43910856	62.5	62.5	100	2.5	14	14	50	0.22
ANP256860 *	8258170	21221148	62.5	82.5	60	2.5	10	8	100	0.16
ANP2561060	8258188	21221106	62.5	102.5	60	2.5	12	8	100	0.18
ANP258860	5650411	43910875	82.5	82.5	60	2.5	10	10	100	0.18
ANP258880	7742406	43910886	82.5	82.5	80	2.5	14	14	50	0.24
ANP2588100	1684369	47313140	82.5	82.5	100	2.5	18	18	50	0.3
ANP25101060	5653381	28994226	102.5	102.5	60	2.5	13	13	50	0.22
ANP25101080	5804551	23383094	102.5	102.5	80	2.5	18	18	50	0.3
ANP251010100	5653373	28994267	102.5	102.5	100	2.5	23	23	50	0.37
ANP251020100	1868934	21220942	202.5	102.5	100	2.5	45	23	25	0.56

*) Currently without ETA / CE mark.

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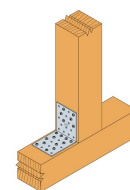


Capacities wood-wood connection - Full Nailing

References	Product capacities - Timber to timber - Maximum 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	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x40	CNA4.0x50	CNA4.0x60
ANP254660	3	3	3.48	4.64	5.8	3.74	4.68	5.32
ANP256650	2	2	2.82	3.4	3.96	2.88	3.58	3.96
ANP256660	3	3	3.6	4.8	5.7	3.38	4.2	4.68
ANP256680	4	4	5.12	6.28	7.42	6.02	7.5	8.42
ANP2566100	5	5	5.9	7.84	9.26	7.96	9.94	11.06
ANP2561060	6	5	3.94	5.26	6.58	5.74	7.1	7.7
ANP258860	4	5	3.88	4.9	5.92	3.96	4.94	5.54
ANP258880	6	6	5.34	6.6	7.26	7.28	8.98	9.9
ANP2588100	7	8	6.44	8.14	9.74	9.2	11.46	12.7
ANP25101060	6	5	3.88	4.96	6.04	5.86	7.22	7.88
ANP25101080	8	8	5.46	6.5	7.16	7.76	9.64	10.6
ANP251010100	10	8	6.48	8.3	9.64	11.02	13.64	15
ANP251020100	16	10	7.18	9.56	11.96	13.14	16.14	17.52

Combined load:

$$\left(\frac{F_{1,d}}{R_{1,d}} \right)^2 + \left(\frac{F_{2/3,d}}{R_{2/3,d}} \right)^2 \leq 1$$



Product capacities - Column to beam - Maximum nailing

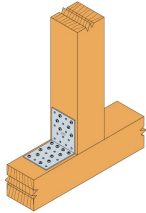
References	Product capacities - Timber to timber - Maximum nailing							
	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	Joist	Flange B	R _{1,k}			R _{2,k} = R _{3,k}		
	Qty	Qty	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x40	CNA4.0x50	CNA4.0x60
ANP2561060	4	5	3.94	5.26	6.58	3.08	3.78	4.1
ANP258860	3	5	3.88	4.9	5.92	3.16	3.88	4.22
ANP258880	4	6	5.34	6.6	7.26	5.14	6.42	7.02
ANP2588100	5	8	6.44	8.14	9.74	7.26	8.9	9.66
ANP25101060	5	5	3.88	4.96	6.04	4.9	6.06	6.68
ANP25101080	6	6	5.46	6.5	7.16	5.96	7.38	8.16
ANP251010100	8	8	6.48	8.3	9.64	9.56	11.8	12.96
ANP251020100	13	10	7.18	9.56	11.96	11.2	13.74	14.92

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Installation

Fasteners

- The fixing needs to be done with CNA4,0xl threaded nails or CSA5,0xl screws.



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