

Technical data sheet

SIMPSON

Strong-Tie

GERW-S

Gerber clutch GERW stainless steel

Connectors Gerwe are suitable for common gripping girders.

Moreover, transverse forces in the vertical direction can absorb forces in the direction of the beam, and are therefore suitable for redirecting force. Depending on the load can be used both partial and full nailing.

Features

Material

**Stainless Steel 1.4401 bzw. 1.4404 (V4A) in accordance with EN10088 standards.
Corrosion resistance class III**

Benefits

- Transferring load in all three directions
- Improved capacity for full and partial nailing
- Individual dimensions, several wooden cross - saving on storage space

Applications

Applicable materials

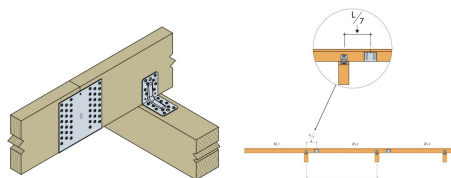
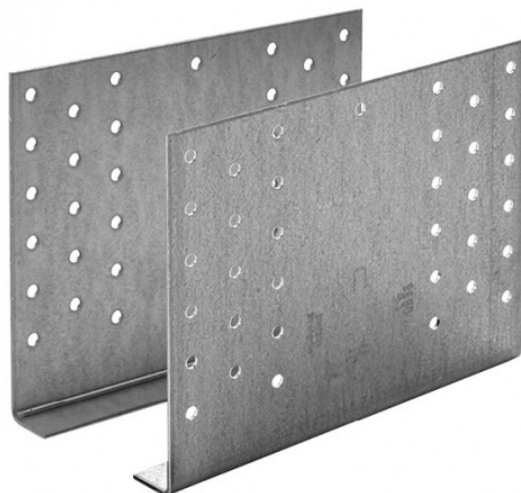
Wood, wood products

Application area

- Connection Runs wood cross section height 90-420 mm



SC 3

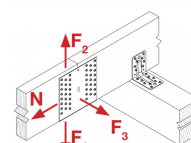
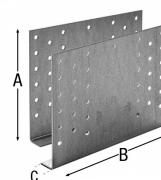
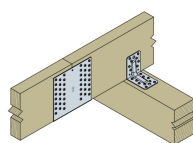


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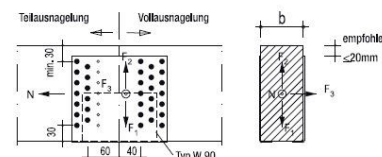
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Technical Data

Abmessungen



References	DB nr.	NOBB nr.	Abmessungen [mm]				Löcher Befestigungsmittel
			A	B	C	t	Nägel/Schrauben
							Schenkel A
GERW90S	-	-	90	140	20	2	10 x Ø5
GERW120S	-	-	120	180	20	2	28 x Ø5
GERW140S	-	-	140	180	20	2	34 x Ø5
GERW160S	-	-	160	180	20	2	40 x Ø5
GERW180S	-	-	180	180	20	2	46 x Ø5
GERW200S	-	-	200	180	20	2	52 x Ø5
GERW220S	-	-	220	180	20	2	58 x Ø5
GERW240S	-	-	240	180	20	2	64 x Ø5
GERW260S	-	-	260	180	20	2	70 x Ø5

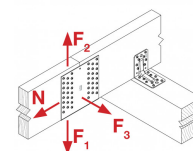


Tragfähigkeiten: Vollausnagelung

References	Anzahl der Befestigungsmittel Schenkel A	Charakteristische Werte der Tragfähigkeit bei Vollausnagelung / 1 Satz Gerberverbinder [kN]							
		$R_{1/2,k}$				$R_{3,k}$			
		CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
GERW90S	20	4.5	4.9	6	6.4	4.1	4.5	5.9	7.4
GERW120S	56	19	20.7	25.3	26.8	6.8	7.4	9.8	12.3
GERW140S	68	26.1	28.4	34.6	36.7	8.3	9	11.8	14.9
GERW160S	80	34	37	45.1	47.8	9.6	10.4	13.7	17.3
GERW180S	92	42.5	46.2	56.4	59.8	10.9	11.9	15.7	19.8
GERW200S	104	51.8	56.3	68.6	72.7	12.3	13.4	17.6	22.2
GERW220S	116	61.5	66.8	81.5	86.4	13.7	14.9	19.6	24.7
GERW240S	128	71.5	77.7	94.8	100.5	15.1	16.4	21.6	27.2
GERW260S	140	81.7	88.8	108.3	114.8	16.5	17.9	23.5	29.6

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Tragfähigkeiten: Teilausnagelung

References	Anzahl der Befestigungsmittel	Charakteristische Werte der Tragfähigkeit bei Teilausnagelung / 1 Satz Gerberverbinder [kN]									
		R _{1/2}				R _{3,k}					
		CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x60
GERW90S	12	3.4	3.7	4.5	4.8	2.2	2.7	3.6	4.5	-	-
GERW120S	36	9.4	10.2	12.4	13.1	3.8	4.6	5.6	5.9	26.9	32.8
GERW140S	44	13.7	14.9	18.2	19.3	4.5	5.5	6.7	7.1	32.8	40
GERW160S	52	18.4	20	24.4	25.9	5.2	6.4	7.8	8.3	38.8	47.3
GERW180S	60	23.7	25.8	31.5	33.4	6	7.3	8.9	9.4	44.8	54.6
GERW200S	68	29.5	32.1	39.1	41.4	6.7	8.2	10	10.6	50.8	61.9
GERW220S	76	35.7	38.8	47.3	50.1	7.5	9.1	11.1	11.8	56.7	69.2
GERW240S	84	42	45.7	55.7	59	8.2	10	12.2	12.9	62.6	76.4
GERW260S	92	48.8	53	64.6	68.5	8.9	10.9	13.3	14.1	68.6	83.7

Bemessung

Für die Überlagerung der Einwirkungen ist nachzuweisen:

- ohne Axial Belastung

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

- mit Axial Belastung

$$\left(\frac{F_{1/2,d}}{R_{1/2,d}} \right)^{1,25} + \left(\sqrt{\left(\frac{F_{3,d}}{R_{3,d}} \right)^2 + \left(\frac{N_d}{R_{N,d}} \right)^2} \right)^{1,25} \leq 1$$

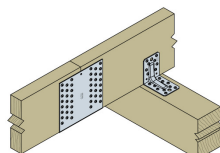
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Installation

Installation

- CNA4,0xℓ using nails or screws CSA5,0xℓ



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