

Technical data sheet

SIMPSON

Strong-Tie

GERW

Gerber connector GERW

Connectors GERW 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

Steel quality:

S 250 GD + Z 275 according to DIN EN

Corrosion protection:

Galvanizing layer thickness of about 55 microns in accordance with DIN EN 1461

Benefits

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

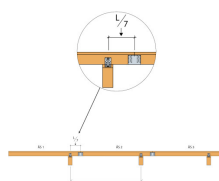
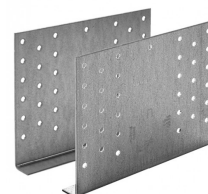
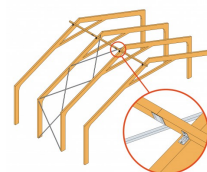
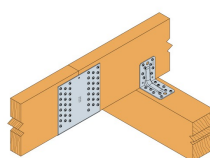
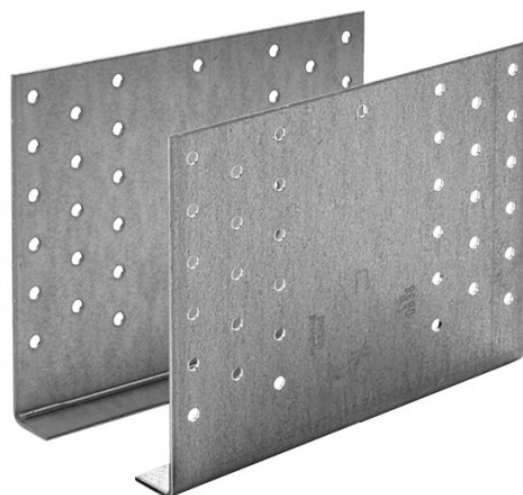
Applications

Applicatons

Wood, suitable wood materials

Scope

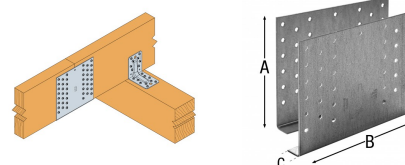
- Connection Runs wood cross section height 90-420 mm



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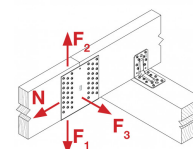
Dimensions and drill holes



References	Tun / DB nr.	NOB nr.	Dimensions and drill holes [mm]				Holes fasteners	Box Quantity	Weight [kg]
			A	B	C	t	Leg A		
							Nails/screws		
GERW90	2857001	21217377	90	140	20	2	10 x ø5	25	0.49
GERW140	2690782	21217302	140	180	20	2	34 x ø5	20	0.92
GERW180	2690808	21217328	180	180	20	2	46 x ø5	15	1.2
GERW200	2690816	21217336	200	180	20	2	52 x ø5	15	1.3
GERW220	2690824	21217344	220	180	20	2	58 x ø5	15	1.3
GERW240	8271249	21217351	240	180	20	2	64 x ø5	15	1.5
GERW260	8271256	21217369	260	180	20	2	70 x ø5	10	1.6

* Hot dip galvanized with layer thickness 55 µm

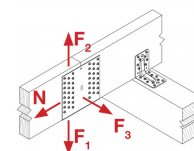
Capacities: Fullnailing



References	Number of fasteners Leg A	Characteristic capacity $R_{i,k}$ at fullnailing / 1 set of Gerber connectors [kN]							
		$R_{1/2,k}$				$R_{3,k}$			
		CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
GERW90	20	4.5	4.9	6	6.4	4.1	4.5	5.9	7.4
GERW140	68	26.1	28.4	34.6	36.7	8.3	9	11.8	14.9
GERW180	92	42.5	46.2	56.4	59.8	10.9	11.9	15.7	19.8
GERW200	104	51.8	56.3	68.6	72.7	12.3	13.4	17.6	22.2
GERW220	116	61.5	66.8	81.5	86.4	13.7	14.9	19.6	24.7
GERW240	128	71.5	77.7	94.8	100.5	15.1	16.4	21.6	27.2
GERW260	140	81.7	88.8	108.3	114.8	16.5	17.9	23.5	29.6

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Capacities: Partnailing

References	Number of fasteners	Characteristic capacity $R_{i,k}$ for partnailing / 1 set of Gerber connectors [kN]											
		Leg A	$R_{1/2,k}$				$R_{3,k}$				$R_{N,k}$		
			CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50
GERW90	12	3.4	3.7	4.5	4.8	2.2	2.7	3.6	4.5	-	-	-	
GERW140	44	13.7	14.9	18.2	19.3	4.5	5.5	6.7	7.1	32.8	40	48	
GERW180	60	23.7	25.8	31.5	33.4	6	7.3	8.9	9.4	44.8	54.6	66	
GERW200	68	29.5	32.1	39.1	41.4	6.7	8.2	10	10.6	50.8	61.9	75	
GERW220	76	35.7	38.8	47.3	50.1	7.5	9.1	11.1	11.8	56.7	69.2	84	
GERW240	84	42	45.7	55.7	59	8.2	10	12.2	12.9	62.6	76.4	93	
GERW260	92	48.8	53	64.6	68.5	8.9	10.9	13.3	14.1	68.6	83.7	101	

Design

For the superimposition of the action be proved:

- without axial load

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

- with axial load

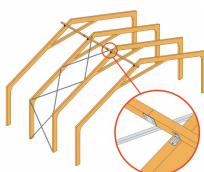
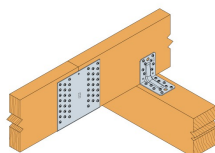
$$\left(\frac{F_{1/2,d}}{R_{1/2,d}} \right)^{1,25} + \left(\sqrt{\left(\frac{F_{3,d}}{R_{3,d}} \right)^2 + \left(\frac{N_d}{R_{N,d}} \right)^2} \right)^{1,25} \leq 1$$

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Installation

Fasteners

- Use CNA4,0xℓ nails or screws CSA5,0xℓ.



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