

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.



[UK-DoP-e07/0053](#), [ETA-07/0053](#)

FEATURES



Material

Steel quality:

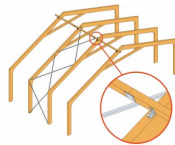
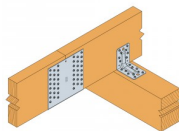
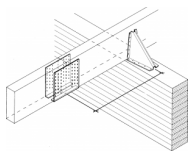
S 250 GD + Z 275 according to DIN EN

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

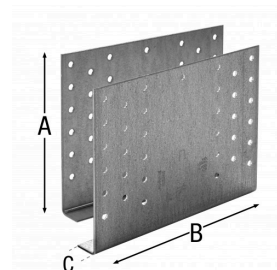
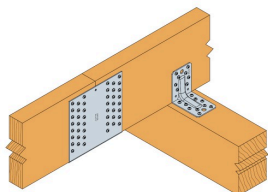
Wood, suitable wood materials

Scope

- Connection Runs wood cross section height 90-420 mm

TECHNICAL DATA

Dimensions and drill holes



References	Tun / DB nr.	NOB nr.	Dimensions and drill holes [mm]				Holes fasteners	
			A	B	C	t	Leg A	Nails/screws
GERW90	2857001	21217377	90	140	20	2	10 x ø5	
GERW120	1480126	44195272	120	180	20	2	28 x ø5	
GERW120Z *	1628113	46342501	120	180	20	2	28 x ø5	
GERW140	2690782	21217302	140	180	20	2	34 x ø5	
GERW140Z *	1628109	46342535	140	180	20	2	34 x ø5	
GERW160	1806130	21217310	160	180	20	2	40 x ø5	
GERW160Z *	1628117	46342554	160	180	20	2	40 x ø5	
GERW180	2690808	21217328	180	180	20	2	46 x ø5	
GERW200	2690816	21217336	200	180	20	2	52 x ø5	
GERW220	2690824	21217344	220	180	20	2	58 x ø5	
GERW240	8271249	21217351	240	180	20	2	64 x ø5	
GERW260	8271256	21217369	260	180	20	2	70 x ø5	
GERW280	-	-	280	180	20	2	76 x ø5	
GERW300	-	-	300	180	20	2	82 x ø5	
GERW320	-	-	320	180	20	2	88 x ø5	
GERW340	1539264	44913782	340	180	20	2	94 x ø5	
GERW360	-	-	360	180	20	2	100 x ø5	
GERW380	-	-	380	180	20	2	106 x ø5	
GERW400	-	-	400	180	20	2	112 x ø5	
GERW420	-	-	420	180	20	2	118 x ø5	

* 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
GERW120	56	19	20.7	25.3	26.8	6.8	7.4	9.8	12.3
GERW140	68	26.1	28.4	34.6	36.7	8.3	9	11.8	14.9
GERW160	80	34	37	45.1	47.8	9.6	10.4	13.7	17.3
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

References	Number of fasteners	Characteristic capacity $R_{1,k}$ at fullnailing / 1 set of Gerber connectors [kN]								
		Leg A	$R_{1/2,k}$				$R_{3,k}$			
			CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
GERW280	152	92.3	100.3	122.3	129.6	17.8	19.4	25.5	32.1	
GERW300	164	102.5	111.4	135.8	143.9	19.1	20.8	27.4	34.5	
GERW320	176	113	122.8	149.7	158.7	20.5	22.3	29.4	37	
GERW340	188	123.5	134.2	163.7	173.5	22	23.9	31.4	39.6	
GERW360	200	134	145.6	177.6	188.3	23.3	25.3	33.3	42	
GERW380	212	141.5	153.8	187.6	198.9	24.7	26.8	35.3	44.5	
GERW400	224	151.2	164.4	200.5	212.5	26	28.3	37.2	46.9	
GERW420	236	160.9	174.9	213.3	226.1	27.4	29.8	39.2	49.4	

Capacities: Partnailing

References	Number of fasteners	Characteristic capacity $R_{1,k}$ 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	CNA4,0x60
GERW90	12	3.4	3.7	4.5	4.8	2.2	2.7	3.6	4.5	-	-	-	-	
GERW120	36	9.4	10.2	12.4	13.1	3.8	4.6	5.6	5.9	26.9	32.8	40	42.4	
GERW140	44	13.7	14.9	18.2	19.3	4.5	5.5	6.7	7.1	32.8	40	48.8	51.7	
GERW160	52	18.4	20	24.4	25.9	5.2	6.4	7.8	8.3	38.8	47.3	57.7	61.2	
GERW180	60	23.7	25.8	31.5	33.4	6	7.3	8.9	9.4	44.8	54.6	66.6	70.6	
GERW200	68	29.5	32.1	39.1	41.4	6.7	8.2	10	10.6	50.8	61.9	75.5	80	
GERW220	76	35.7	38.8	47.3	50.1	7.5	9.1	11.1	11.8	56.7	69.2	84.4	89.5	
GERW240	84	42	45.7	55.7	59	8.2	10	12.2	12.9	62.6	76.4	93.2	98.8	
GERW260	92	48.8	53	64.6	68.5	8.9	10.9	13.3	14.1	68.6	83.7	102.1	108.2	
GERW280	100	55.7	60.5	73.8	78.2	9.7	11.8	14.4	15.3	74.6	91	111	117.7	
GERW300	108	62.4	67.8	82.7	87.7	10.4	12.7	15.5	16.4	80.6	98.3	119.9	127.1	
GERW320	116	69.4	75.4	92	97.5	11.2	13.7	16.7	17.7	86.6	105.6	128.8	136.5	
GERW340	124	76.4	83	101.2	107.3	12	14.6	17.8	18.9	92.5	112.8	137.6	145.9	
GERW360	132	83.4	90.6	110.5	117.1	12.7	15.5	18.9	20	98.5	120.1	146.5	155.3	
GERW380	140	87.6	95.2	116.1	123.1	13.4	16.4	20	21.2	104.5	127.4	155.4	164.7	
GERW400	148	93.9	102.1	124.5	132	14.2	17.3	21.1	22.4	110.5	134.7	164.3	174.2	
GERW420	156	100.2	108.9	132.8	140.8	14.9	18.2	22.2	23.5	116.4	142	173.2	183.6	

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

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

INSTALLATION

Fasteners

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

