

Technical data sheet

SIMPSON

Strong-Tie

GERB

Gerber connector GERB

Gerber joints are available for the most common timber dimensions. The set of couplings consists of a right and left end portions and can be used for purlins from 80 mm width. The maximum height of the connector corresponding to the cutting diameter of the wood in standard sizes. Depending on the load, the connection can be performed through a partial or full nailing.

Features

Material

Steel quality:

S 250 GD + Z 275 according to DIN EN

Corrosion protection:

275 g / m galvanized on both sides 20mm

Benefits

- Transferring load in all three directions for full nailing
- Improved capacity in two directions partial nailing
- Individual dimensions suitable for multiple timber sizes - space-saving storage

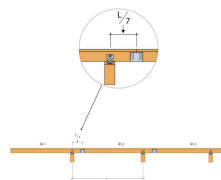
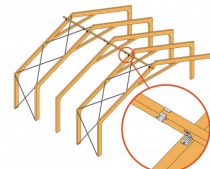
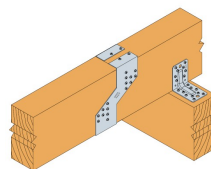
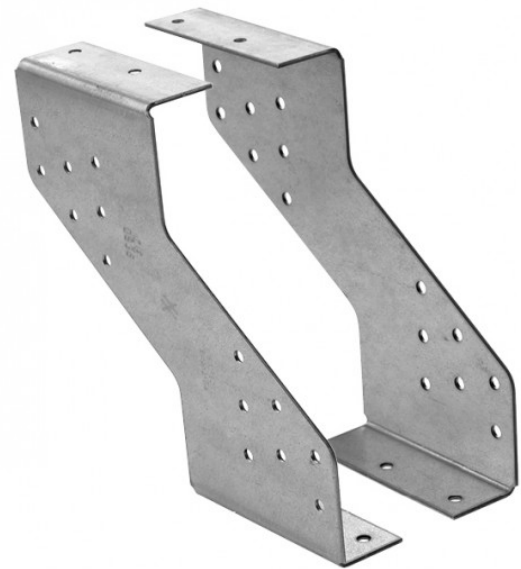
Applications

Applicatons

Wood, wood suitable materials

Scope

- Connection Runs wood cross section height 90-420 mm



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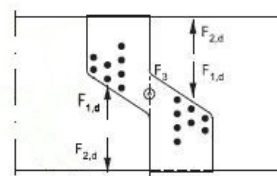
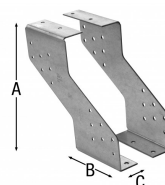
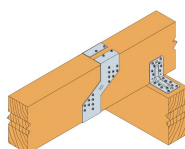
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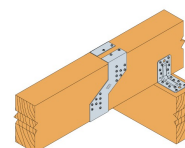
Dimensions and drill holes



References	Tun / DB nr.	NOB nr.	Dimensions and drill holes [mm]				Holes fasteners		Box Quantity	Weight [kg]
			A	B	C	t	Leg A	Leg C		
							Nails/screws	Nails/screws		
GERB125	2681963	43899660	129	90	27	2	10 ø5	4 ø5	25	0.5
GERB150	2681740	43899675	154	90	29	2	14 ø5	4 ø5	25	0.59
GERB160	2681757	43899705	160	90	30	2	14 ø5	4 ø5	25	0.31
GERB180	2681773	43899743	180	90	33	2	14 ø5	4 ø5	25	0.34
GERB200	2681781	43899758	205	90	33	2	16 ø5	4 ø5	25	0.74
GERB220	2681799	43899777	220	90	34	2	16 ø5	4 ø5	25	0.4

* Hot dip galvanized with layer thickness 55µm

Capacities: Fullnailing



References	Number of fasteners		Characteristic capacity $R_{i,k}$ at fullnailing / 1 set of Gerber connectors [kN]										
	Leg A	Leg C	$R_{1,k}$				$R_{2,k}$				$R_{3,k}$		
			CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x60
GERB125	20	8	15.9	17.3	19.9	20.9	4.2	4.6	5.6	5.9	2.5	3	3
GERB150	28	8	20.2	22	25.3	26.6	6.7	7.3	8.9	9.4	3.7	4.5	5
GERB160	28	8	20.4	22.2	25.5	26.8	6.7	7.3	8.9	9.4	3.7	4.5	5
GERB180	28	8	21.2	23	26.4	27.7	6.7	7.3	8.9	9.4	3.7	4.5	5
GERB200	32	8	22.4	24.4	28.1	29.5	8.5	9.2	11.2	11.9	3.7	4.5	5
GERB220	32	8	22.6	24.6	28.3	29.7	8.5	9.2	11.2	11.9	3.7	4.5	5

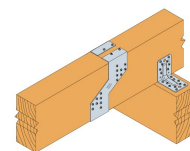
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Capacities: Partnailing

References	Number of fasteners		Characteristic capacity $R_{i,k}$ for partnailing / 1 set of Gerber connectors [kN]							
	Leg A	Leg C	$R_{1,k}$				$R_{2,k}$			
			CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
GERB125	16	-	13.3	14.5	16.1	16.7	3.8	4.1	5	5.3
GERB150	16	-	12.7	13.8	15.3	15.9	4	4.3	5.2	5.5
GERB160	16	-	12.8	13.9	15.4	16	4	4.3	5.2	5.5
GERB180	16	-	13.2	14.3	15.9	16.5	4	4.3	5.2	5.5
GERB200	16	-	12.8	13.9	15.4	16	4.3	4.7	5.7	6
GERB220	16	-	12.8	13.9	15.4	16	4.3	4.7	5.7	6

Design

For the superimposition of the action be proved:

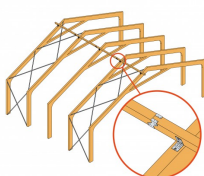
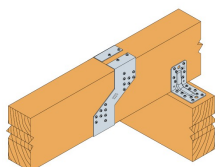
$$\left(\frac{F_{1/2,d}}{R_{1/2,d}} \right)^2 + \left(\frac{F_{3,d}}{R_{3,d}} \right)^2 \leq 1$$

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Installation

Fasteners

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



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