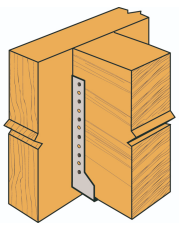
Technical Sheet

GSI 4

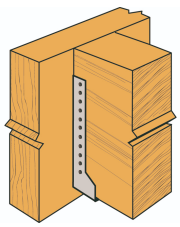
Large joist hangers with internal flange

The large joist hangers can be used in several situation. They allow connection without any specific work on the timber.





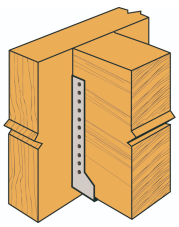
Partial nailing



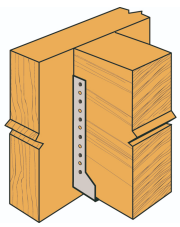
Full nailing



GSI



Full nailing



Partial nailing

Features

Material

Galvanized Steel S250GD + Z275 according to EN 10346
Thickness 4 mm

Advantages

- Easy and quick installation
- 30min fire resistance
- Choice of widths according to the ranges indicated

Applications

Header member

- **Header Member:** Solid timber, Composite timber, Glulam.
- **Joist:** Solid timber, Composite timber, Glulam.

Intend Use

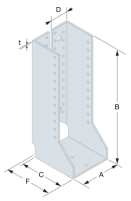
Joist

Technical Sheet

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Large joist hangers with internal flange

Technical Data



Blank model and width

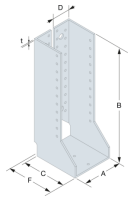
Reference	Connector Dimensions		
	Product Dimensions[mm]		
	Blank[mm]	Width[mm]	Depth[mm]
GSI300/4X	300	84 - 110	110
GSI340/4X	340	84 - 110	110
GSI380/4X	380	84 - 136	110
GSI440/4X	440	84 - 136	110
GSI500/4X	500	84 - 136	110
GSI500/4X-AL	500	137 - 200	110
GSI540/4X	540	84 - 136	110
GSI540/4X-AL	540	137 - 200	110
GSI600/4X	600	84 - 136	110
GSI600/4X-AL	600	137 - 200	110
GSI660/4X	660	84 - 136	110
GSI660/4X-AL	660	137 - 200	110
GSI720/4X	720	84 - 136	110
GSI720/4X-AL	720	137 - 200	110
GSI780/4X	780	84 - 136	110
GSI780/4X-AL	780	137 - 200	110
GSI840/4X	840	84 - 136	110
GSI840/4X-AL	840	137 - 200	110
GSI900/4X	900	84 - 136	110
GSI900/4X-AL	900	137 - 200	110
GSI960/4X	960	84 - 136	110
GSI960/4X-AL	960	137 - 200	110
GSI1020/4X	1020	84 - 136	110
GSI1020/4X-AL	1020	137 - 200	110

For more information on the load values according to the width of the joist hanger, contact the technical department.

Technical Sheet

GSI 4

Large joist hangers with internal flange



Product Dimensions

Reference	Connector Dimensions												
	Timber size[mm]			Product Dimensions[mm]						Header holes		Joist holes	Other
	Width[mm]	Height		A[mm]	B[mm]	C[mm]	d[mm]	F[mm]	Thickness[mm]	Round		Round	Weight[kg]
		Min[mm]	Max.[mm]							Ø5	Ø13	Ø5	
GSI380/76/4	76	162	228	76	152	110	45.5	118	4	16	4	8	1.3
GSI440/76/4	76	192	273	76	182	110	45.5	118	4	22	4	12	1.5
GSI500/76/4	76	222	318	76	212	110	45.5	118	4	28	4	14	1.6
GSI380/80/4	80	160	225	80	150	110	45.5	118	4	16	4	8	1.3
GSI440/80/4	80	190	270	80	180	110	45.5	118	4	22	4	12	1.5
GSI500/80/4	80	220	315	80	210	110	45.5	118	4	28	4	14	1.6
GSI540/80/4	80	240	345	80	230	110	45.5	118	4	32	4	16	1.8
GSI600/80/4	80	270	390	80	260	110	45.5	118	4	38	4	20	2
GSI660/80/4	80	300	435	80	290	110	45.5	118	4	44	6	22	2.1
GSI720/80/4	80	330	480	80	320	110	45.5	118	4	50	6	26	2.3
GSI780/80/4	80	360	525	80	350	110	45.5	118	4	56	6	28	2.7
GSI840/80/4	80	390	570	80	380	110	45.5	118	4	62	6	32	2.9
GSI900/80/4	80	420	615	80	410	110	45.5	118	4	68	6	38	3
GSI960/80/4	80	450	660	80	440	110	45.5	118	4	74	6	38	3.2
GSI1020/80/4	80	480	705	80	470	110	45.5	118	4	80	6	40	3.4
GSI380/90/4	90	155	218	90	145	110	45.5	118	4	16	4	8	1.3
GSI440/90/4	90	185	263	90	175	110	45.5	118	4	22	4	12	1.5
GSI500/90/4	90	215	308	90	205	110	45.5	118	4	28	4	14	1.6
GSI540/90/4	90	235	338	90	225	110	45.5	118	4	32	4	16	1.8
GSI600/90/4	90	265	383	90	255	110	45.5	118	4	38	4	20	2
GSI660/90/4	90	295	428	90	285	110	45.5	118	4	44	6	22	2.1
GSI720/90/4	90	325	473	90	315	110	45.5	118	4	50	6	26	2.3
GSI780/90/4	90	355	518	90	345	110	45.5	118	4	56	6	28	2.7
GSI840/90/4	90	385	563	90	375	110	45.5	118	4	62	6	32	2.9
GSI900/90/4	90	415	608	90	405	110	45.5	118	4	68	6	38	3
GSI960/90/4	90	445	653	90	435	110	45.5	118	4	74	6	38	3.2
GSI1020/90/4	90	475	698	90	465	110	45.5	118	4	80	6	40	3.4
GSI380/100/4	100	150	210	100	140	110	45.5	118	4	16	4	8	1.3
GSI440/100/4	100	180	255	100	170	110	45.5	118	4	22	4	12	1.5
GSI500/100/4	100	210	300	100	200	110	45.5	118	4	28	4	14	1.6
GSI540/100/4	100	230	330	100	220	110	45.5	118	4	32	4	16	1.8
GSI600/100/4	100	260	375	100	250	110	45.5	118	4	38	4	20	2
GSI660/100/4	100	290	420	100	280	110	45.5	118	4	44	6	22	2.1
GSI720/100/4	100	320	465	100	310	110	45.5	118	4	50	6	26	2.3
GSI780/100/4	100	350	510	100	340	110	45.5	118	4	56	6	28	2.7
GSI840/100/4	100	380	555	100	370	110	45.5	118	4	62	6	32	2.9
GSI900/100/4	100	410	600	100	400	110	45.5	118	4	68	6	38	3
GSI960/100/4	100	440	645	100	430	110	45.5	118	4	74	6	38	3.2
GSI1020/100/4	100	470	690	100	460	110	45.5	118	4	80	6	40	3.4
GSI540/120/4	120	220	315	120	210	110	45.5	118	4	32	4	16	1.8
GSI600/120/4	120	250	360	120	240	110	45.5	118	4	38	4	20	2
GSI660/120/4	120	280	405	120	270	110	45.5	118	4	44	6	22	2.1

Technical Sheet

GSI 4

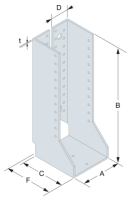
Large joist hangers with internal flange

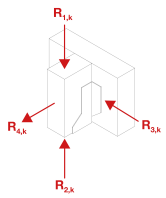
Reference	Connector Dimensions												
	Timber size[mm]			Product Dimensions[mm]						Header holes		Joist holes	Other
	Width[mm]	Height		A[mm]	B[mm]	C[mm]	d[mm]	F[mm]	Thickness[mm]	Round		Round	Weight[kg]
		Min[mm]	Max.[mm]							Ø5	Ø13	Ø5	
GSI720/120/4	120	310	450	120	300	110	45.5	118	4	50	6	26	2.3
GSI780/120/4	120	340	495	120	330	110	45.5	118	4	56	6	28	2.7
GSI840/120/4	120	370	540	120	360	110	45.5	118	4	62	6	32	2.9
GSI900/120/4	120	400	585	120	390	110	45.5	118	4	68	6	38	3
GSI960/120/4	120	430	630	120	420	110	45.5	118	4	74	6	38	3.2
GSI1020/120/4	120	460	675	120	450	110	45.5	118	4	80	6	40	3.4
GSI500/140/4	140	190	270	140	180	110	45.5	118	4	28	2	14	1.6
GSI540/140/4	140	210	300	140	200	110	45.5	118	4	32	4	16	1.8
GSI600/140/4	140	240	345	140	230	110	45.5	118	4	38	4	20	2
GSI660/140/4	140	270	390	140	260	110	45.5	118	4	44	6	22	2.1
GSI720/140/4	140	300	435	140	290	110	45.5	118	4	50	6	26	2.3
GSI780/140/4	140	330	480	140	320	110	45.5	118	4	56	6	28	2.7
GSI840/140/4	140	360	525	140	350	110	45.5	118	4	62	6	32	2.9
GSI900/140/4	140	390	570	140	380	110	45.5	118	4	68	6	38	3
GSI960/140/4	140	420	615	140	410	110	45.5	118	4	74	6	38	3.2
GSI1020/140/4	140	450	660	140	440	110	45.5	118	4	80	6	40	3.4
GSI500/160/4	160	180	255	160	170	110	45.5	118	4	28	2	14	1.6
GSI540/160/4	160	200	285	160	190	110	45.5	118	4	32	4	16	1.8
GSI600/160/4	160	230	330	160	220	110	45.5	118	4	38	4	20	2
GSI660/160/4	160	260	375	160	250	110	45.5	118	4	44	6	22	2.1
GSI720/160/4	160	290	420	160	280	110	45.5	118	4	50	6	26	2.3
GSI780/160/4	160	320	465	160	310	110	45.5	118	4	56	6	28	2.7
GSI840/160/4	160	350	510	160	340	110	45.5	118	4	62	6	32	2.9
GSI900/160/4	160	380	555	160	370	110	45.5	118	4	68	6	38	3
GSI960/160/4	160	410	600	160	400	110	45.5	118	4	74	6	38	3.2
GSI1020/160/4	160	440	645	160	430	110	45.5	118	4	80	6	40	3.4
GSI500/180/4	180	170	240	180	160	110	45.5	118	4	28	2	14	1.6
GSI540/180/4	180	190	270	180	180	110	45.5	118	4	32	4	16	1.8
GSI600/180/4	180	220	315	180	210	110	45.5	118	4	38	4	20	2
GSI660/180/4	180	250	360	180	240	110	45.5	118	4	44	6	22	2.1
GSI720/180/4	180	280	405	180	270	110	45.5	118	4	50	6	26	2.3
GSI780/180/4	180	310	450	180	300	110	45.5	118	4	56	6	28	2.7
GSI840/180/4	180	340	495	180	330	110	45.5	118	4	62	6	32	2.9
GSI900/180/4	180	370	540	180	360	110	45.5	118	4	68	6	38	3
GSI960/180/4	180	400	585	180	390	110	45.5	118	4	74	6	38	3.2
GSI1020/180/4	180	430	630	180	420	110	45.5	118	4	80	6	40	3.4
GSI500/200/4	200	160	225	200	150	110	45.5	118	4	28	2	14	1.6
GSI540/200/4	200	180	255	200	170	110	45.5	118	4	32	4	16	1.8
GSI600/200/4	200	210	300	200	200	110	45.5	118	4	38	4	20	2
GSI660/200/4	200	240	345	200	230	110	45.5	118	4	44	6	22	2.1
GSI720/200/4	200	270	390	200	260	110	45.5	118	4	50	6	26	2.3
GSI780/200/4	200	300	435	200	290	110	45.5	118	4	56	6	28	2.7
GSI840/200/4	200	330	480	200	320	110	45.5	118	4	62	6	32	2.9
GSI900/200/4	200	360	525	200	350	110	45.5	118	4	68	6	38	3
GSI960/200/4	200	390	570	200	380	110	45.5	118	4	74	6	38	3.2
GSI1020/200/4	200	420	615	200	410	110	45.5	118	4	80	6	40	3.4

Technical Sheet

GSI 4

Large joist hangers with internal flange





Product Capacities

Reference	Hanger capacity						
	Characteristic capacities - Timber to timber - Full nailing						
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]				
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k	Fire resistance R1,k
	Qty	Qty	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x75
GSI380/76/4	16.0	8.0	17.2	6.9	-	7.8	-
GSI440/76/4	22.0	12.0	24.5	11.9	-	11.8	-
GSI500/76/4	28.0	14.0	31.9	18.1	-	13.7	-
GSI380/80/4	16.0	8.0	16.9	6.9	-	7.8	-
GSI440/80/4	22.0	12.0	24.1	11.9	-	11.8	-
GSI500/80/4	28.0	14.0	31.9	18.1	-	13.7	-
GSI540/80/4	32.0	16.0	35.9	22.7	-	15.7	-
GSI600/80/4	38.0	20.0	43.9	30.5	-	19.6	-
GSI660/80/4	44.0	22.0	47.9	39	-	21.6	-
GSI720/80/4	50.0	26.0	55.8	46.1	-	25.5	-
GSI780/80/4	56.0	28.0	59.8	49.6	-	27.4	-
GSI840/80/4	62.0	32.0	67.8	56.7	-	31.4	-
GSI900/80/4	68.0	36.0	75.8	63.8	-	33.3	-
GSI960/80/4	74.0	38.0	79.8	67.4	-	37.2	-
GSI1020/80/4	80.0	40.0	83.8	70.9	-	39.2	-
GSI380/90/4	16.0	8.0	16.2	6.9	6.4	7.8	-
GSI440/90/4	22.0	12.0	23.2	11.9	9.2	11.8	-
GSI500/90/4	28.0	14.0	31.5	18.1	10.2	13.7	-
GSI540/90/4	32.0	16.0	35.9	22.7	11.3	15.7	-
GSI600/90/4	38.0	20.0	43.9	30.5	13.3	19.6	-
GSI660/90/4	44.0	22.0	47.9	39	13.8	21.6	-
GSI720/90/4	50.0	26.0	55.8	46.1	15.3	25.5	-
GSI780/90/4	56.0	28.0	59.8	49.6	15.5	27.4	-
GSI840/90/4	62.0	32.0	67.8	56.7	16.6	31.4	-
GSI900/90/4	68.0	36.0	75.8	63.8	17.6	33.3	-
GSI960/90/4	74.0	38.0	79.8	67.4	17.5	37.2	-
GSI1020/90/4	80.0	40.0	83.8	70.9	17.4	39.2	-
GSI380/100/4	16.0	8.0	15.4	6.9	6.6	7.8	1,0*
GSI440/100/4	22.0	12.0	22.3	11.9	9.6	11.8	2,5*
GSI500/100/4	28.0	14.0	30.5	18.1	10.7	13.7	3,5*
GSI540/100/4	32.0	16.0	35.9	22.7	11.8	15.7	4,7*
GSI600/100/4	38.0	20.0	43.9	30.5	14	19.6	7,3*
GSI660/100/4	44.0	22.0	47.9	39	14.6	21.6	8,6*
GSI720/100/4	50.0	26.0	55.8	46.1	16.3	25.5	11,4*
GSI780/100/4	56.0	28.0	59.8	49.6	16.6	27.4	12,8*
GSI840/100/4	62.0	32.0	67.8	56.7	17.9	31.4	15,4*
GSI900/100/4	68.0	36.0	75.8	63.8	19	33.3	18,0*
GSI960/100/4	74.0	38.0	79.8	67.4	19	37.2	19,3*
GSI1020/100/4	80.0	40.0	83.8	70.9	18.9	39.2	20,6*
GSI540/120/4	32.0	16.0	34	22.7	12.7	15.7	4,7*
GSI600/120/4	38.0	20.0	43.1	30.5	15.2	19.6	7,3*

Technical Sheet

GSI 4

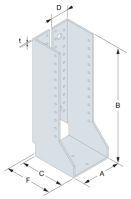
Large joist hangers with internal flange

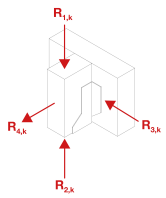
Reference	Hanger capacity						
	Characteristic capacities - Timber to timber - Full nailing						
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]				
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k	Fire resistance R1,k
	Qty	Qty	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x75
GSI660/120/4	44.0	22.0	47.9	39	16	21.6	8,6*
GSI720/120/4	50.0	26.0	55.8	46.1	18	25.5	11,4*
GSI780/120/4	56.0	28.0	59.8	49.6	18.5	27.4	12,8*
GSI840/120/4	62.0	32.0	67.8	56.7	20.1	31.4	15,4*
GSI900/120/4	68.0	36.0	75.8	63.8	21.5	33.3	18,0*
GSI960/120/4	74.0	38.0	79.8	67.4	21.6	37.2	19,3*
GSI1020/120/4	80.0	40.0	83.8	70.9	21.6	39.2	20,6*
GSI500/140/4	22.0	12.0	24.1	11.9	10.5	11.8	2,5*
GSI540/140/4	26.0	14.0	29.5	15.9	12	11.8	3,5*
GSI600/140/4	32.0	18.0	38.2	22.7	15	15.7	5,9*
GSI660/140/4	38.0	20.0	43.9	30.5	16.1	19.6	7,3*
GSI720/140/4	44.0	24.0	51.9	39	18.6	23.5	10,0*
GSI780/140/4	50.0	26.0	55.8	46.1	19.3	25.5	11,4*
GSI840/140/4	56.0	30.0	63.8	53.2	21.4	29.4	14,1*
GSI900/140/4	62.0	32.0	67.8	56.7	21.8	31.4	15,4*
GSI960/140/4	68.0	34.0	71.8	60.3	22.2	33.3	16,8*
GSI1020/140/4	74.0	38.0	79.8	67.4	23.8	37.2	19,3*
GSI500/160/4	22.0	12.0	22.3	11.9	10.7	11.8	2,5*
GSI540/160/4	26.0	14.0	27.6	15.9	12.3	11.8	3,5*
GSI600/160/4	32.0	18.0	36.1	22.7	15.5	15.7	5,9*
GSI660/160/4	44.0	24.0	51.9	39	20.1	19.6	7,3*
GSI720/160/4	44.0	24.0	51.9	39	19.5	23.5	10,0*
GSI780/160/4	50.0	26.0	55.8	46.1	20.4	25.5	11,4*
GSI840/160/4	56.0	30.0	63.8	53.2	22.7	29.4	14,1*
GSI900/160/4	62.0	32.0	67.8	56.7	23.3	31.4	15,4*
GSI960/160/4	68.0	34.0	71.8	60.3	23.8	33.3	16,8*
GSI1020/160/4	74.0	38.0	79.8	67.4	25.6	37.2	19,3*
GSI500/180/4	22.0	12.0	20.3	11.9	10.9	11.8	2,5*
GSI540/180/4	26.0	14.0	25.4	15.9	12.6	11.8	3,5*
GSI600/180/4	32.0	18.0	33.8	22.7	15.9	15.7	5,9*
GSI660/180/4	44.0	24.0	51.9	39	20.7	19.6	7,3*
GSI720/180/4	44.0	24.0	51.9	39	20.1	23.5	10,0*
GSI780/180/4	50.0	26.0	55.8	46.1	21.2	25.5	11,4*
GSI840/180/4	56.0	30.0	63.8	53.2	23.7	29.4	14,1*
GSI900/180/4	62.0	32.0	67.8	56.7	24.5	31.4	15,4*
GSI960/180/4	68.0	34.0	71.8	60.3	25.1	33.3	16,8*
GSI1020/180/4	74.0	38.0	79.8	67.4	27.2	37.2	19,3*
GSI500/200/4	22.0	12.0	18.3	11.9	11.1	11.8	2,5*
GSI540/200/4	26.0	14.0	23.2	15.9	12.8	11.8	3,5*
GSI600/200/4	32.0	18.0	31.3	22.7	16.2	15.7	5,9*
GSI660/200/4	44.0	24.0	50.3	39	21.1	19.6	7,3*
GSI720/200/4	44.0	24.0	50.3	39	20.7	23.5	10,0*
GSI780/200/4	50.0	26.0	55.8	46.1	21.8	25.5	11,4*
GSI840/200/4	56.0	30.0	63.8	53.2	24.5	29.4	14,1*
GSI900/200/4	62.0	32.0	67.8	56.7	25.4	31.4	15,4*
GSI960/200/4	68.0	34.0	71.8	60.3	26.2	33.3	16,8*
GSI1020/200/4	74.0	38.0	79.8	67.4	28.5	37.2	19,3*

Technical Sheet

GSI 4

Large joist hangers with internal flange





Product capacities - Timber to timber - Partial nailing

Reference	Hanger capacity					
	Characteristic capacities - Timber to timber - Partial nailing -					
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]			
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Qty	Qty	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x50
GSI380/76/4	8.0	4.0	10.1	3.3	3	3.9
GSI440/76/4	12.0	6.0	14.5	6.7	4.3	5.9
GSI500/76/4	14.0	8.0	18	8.8	5.4	6.9
GSI380/80/4	8.0	4.0	9.9	3.3	3.1	3.9
GSI440/80/4	12.0	6.0	14.3	6.7	4.4	5.9
GSI500/80/4	14.0	8.0	17.8	8.8	5.5	6.9
GSI540/80/4	16.0	8.0	19.9	11.1	5.3	7.8
GSI600/80/4	20.0	10.0	23.9	16.3	6.2	9.8
GSI660/80/4	22.0	12.0	27.9	19.2	7	10.8
GSI720/80/4	26.0	14.0	31.9	24.8	7.6	12.7
GSI780/80/4	28.0	14.0	31.9	24.8	7.1	13.7
GSI840/80/4	32.0	16.0	35.9	28.4	7.6	15.7
GSI900/80/4	34.0	18.0	39.9	31.9	8	16.7
GSI960/80/4	38.0	20.0	43.9	35.5	8.4	18.6
GSI1020/80/4	40.0	20.0	43.9	35.5	7.9	19.6
GSI380/90/4	8.0	4.0	9.6	3.3	3.2	3.9
GSI440/90/4	12.0	6.0	13.8	6.7	4.6	5.9
GSI500/90/4	14.0	8.0	17.3	8.8	5.8	6.9
GSI540/90/4	16.0	8.0	19.9	11.1	5.6	7.8
GSI600/90/4	20.0	10.0	23.9	16.3	6.6	9.8
GSI660/90/4	22.0	12.0	27.9	19.2	7.5	10.8
GSI720/90/4	26.0	14.0	31.9	24.8	8.2	12.7
GSI780/90/4	28.0	14.0	31.9	24.8	7.7	13.7
GSI840/90/4	32.0	16.0	35.9	28.4	8.3	15.7
GSI900/90/4	34.0	18.0	39.9	31.9	8.8	16.7
GSI960/90/4	38.0	20.0	43.9	35.5	9.2	18.6
GSI1020/90/4	40.0	20.0	43.9	35.5	8.7	19.6
GSI380/100/4	8.0	4.0	9.2	3.3	3.3	3.9
GSI440/100/4	12.0	6.0	13.3	6.7	4.8	5.9
GSI500/100/4	14.0	8.0	16.8	8.8	6.1	6.9
GSI540/100/4	16.0	8.0	19.9	11.1	5.9	7.8
GSI600/100/4	20.0	10.0	23.9	16.3	7	9.8
GSI660/100/4	22.0	12.0	27.9	19.2	8	10.8
GSI720/100/4	26.0	14.0	31.9	24.8	8.8	12.7
GSI780/100/4	28.0	14.0	31.9	24.8	8.3	13.7
GSI840/100/4	32.0	16.0	35.9	28.4	8.9	15.7
GSI900/100/4	34.0	18.0	39.9	31.9	9.5	16.7

Values given in the table above are valid for a joist to joist and joist to column application, subject to respecting the partial nailing plans specific to each configuration given in our ETA-06/0270 page 17.

Technical Sheet

GSI 4

Large joist hangers with internal flange

Reference	Hanger capacity					
	Characteristic capacities - Timber to timber - Partial nailing -					
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]			
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Qty	Qty	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x50
GSI960/100/4	38.0	20.0	43.9	35.5	10	18.6
GSI1020/100/4	40.0	20.0	43.9	35.5	9.5	19.6
GSI540/120/4	16.0	8.0	19	11.1	6.3	7.8
GSI600/120/4	20.0	10.0	23.9	16.3	7.6	9.8
GSI660/120/4	22.0	12.0	27.9	19.2	8.7	10.8
GSI720/120/4	26.0	14.0	31.9	24.8	9.7	12.7
GSI780/120/4	28.0	14.0	31.9	24.8	9.2	13.7
GSI840/120/4	32.0	16.0	35.9	28.4	10	15.7
GSI900/120/4	34.0	18.0	39.9	31.9	10.7	16.7
GSI960/120/4	38.0	20.0	43.9	35.5	11.4	18.6
GSI1020/120/4	40.0	20.0	43.9	35.5	10.8	19.6
GSI500/140/4	12.0	6.0	14.3	6.7	5.2	5.9
GSI540/140/4	14.0	8.0	16.8	8.8	6.9	6.9
GSI600/140/4	18.0	10.0	21.8	13.6	8.3	8.8
GSI660/140/4	20.0	10.0	23.9	16.3	8	9.8
GSI720/140/4	24.0	12.0	27.9	21.3	9.3	11.8
GSI780/140/4	26.0	14.0	31.9	24.8	10.4	12.7
GSI840/140/4	30.0	16.0	35.9	28.4	11.4	14.7
GSI900/140/4	32.0	16.0	35.9	28.4	10.9	15.7
GSI960/140/4	34.0	18.0	39.9	31.9	11.8	16.7
GSI1020/140/4	38.0	20.0	43.9	35.5	12.5	18.6
GSI500/160/4	12.0	6.0	13.3	6.7	5.4	5.9
GSI540/160/4	14.0	8.0	15.8	8.8	7.1	6.9
GSI600/160/4	20.0	10.0	23.9	16.3	8.6	8.8
GSI660/160/4	20.0	10.0	23.9	16.3	8.4	9.8
GSI720/160/4	24.0	12.0	27.9	21.3	9.7	11.8
GSI780/160/4	26.0	14.0	31.9	24.8	11	12.7
GSI840/160/4	30.0	16.0	35.9	28.4	12.1	14.7
GSI900/160/4	32.0	16.0	35.9	28.4	11.7	15.7
GSI960/160/4	34.0	18.0	39.9	31.9	12.6	16.7
GSI1020/160/4	38.0	20.0	43.9	35.5	13.5	18.6
GSI500/180/4	12.0	6.0	12.2	6.7	5.5	5.9
GSI540/180/4	14.0	8.0	14.7	8.8	7.2	6.9
GSI600/180/4	20.0	10.0	23.9	16.3	8.8	8.8
GSI660/180/4	20.0	10.0	23.9	16.3	8.6	9.8
GSI720/180/4	24.0	12.0	27.9	21.3	10.1	11.8
GSI780/180/4	26.0	14.0	31.9	24.8	11.4	12.7
GSI840/180/4	30.0	16.0	35.9	28.4	12.6	14.7
GSI900/180/4	32.0	16.0	35.9	28.4	12.2	15.7
GSI960/180/4	34.0	18.0	39.9	31.9	13.3	16.7
GSI1020/180/4	38.0	20.0	43.9	35.5	14.3	18.6
GSI500/200/4	12.0	6.0	11.1	6.7	5.5	5.9
GSI540/200/4	14.0	8.0	13.5	8.8	7.3	6.9
GSI600/200/4	20.0	10.0	22.7	16.3	9	8.8

Values given in the table above are valid for a joist to joist and joist to column application, subject to respecting the partial nailing plans specific to each configuration given in our ETA-06/0270 page 17.

Technical Sheet

GSI 4

Large joist hangers with internal flange

Reference	Hanger capacity					
	Characteristic capacities - Timber to timber - Partial nailing -					
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]			
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Qty	Qty	CNA4.0x50	CNA4.0x50	CNA4.0x50	CNA4.0x50
GSI660/200/4	20.0	10.0	22.7	16.3	8.8	9.8
GSI720/200/4	24.0	12.0	27.9	21.3	10.3	11.8
GSI780/200/4	26.0	14.0	31.9	24.8	11.8	12.7
GSI840/200/4	30.0	16.0	35.9	28.4	13.1	14.7
GSI900/200/4	32.0	16.0	35.9	28.4	12.7	15.7
GSI960/200/4	34.0	18.0	39.9	31.9	13.9	16.7
GSI1020/200/4	38.0	20.0	43.9	35.5	15	18.6

Values given in the table above are valid for a joist to joist and joist to column application, subject to respecting the partial nailing plans specific to each configuration given in our ETA-06/0270 page 17.

Product characteristic capacities under fire conditions - Timber to timber with SSH

Reference	Hanger capacity					
	Product characteristic capacities - Timber to Timber - Fire condition - SSH screws					
	Number of Fasteners				Characteristic capacities - Timber C24[kN]	
	Header		Joist		R1,k,fi	
	Qty	Type	Qty	Type	Width 100 to 139 mm	Width 140 to 200 m
GSI380/4X	2.0	SSH12.0x80	8.0	CNA4.0x75	2.7	-
GSI440/4X	4.0	SSH12.0x80	12.0	CNA4.0x75	4.6	-
GSI500/4X	4.0	SSH12.0x80	14.0	CNA4.0x75	5.3	-
GSI500/4X-AL	2.0	SSH12.0x80	12.0	CNA4.0x75	-	3.5
GSI540/4X	4.0	SSH12.0x80	16.0	CNA4.0x75	6.5	-
GSI540/4X-AL	4.0	SSH12.0x80	14.0	CNA4.0x75	-	5.2
GSI600/4X	4.0	SSH12.0x80	20.0	CNA4.0x75	6.8	-
GSI600/4X-AL	4.0	SSH12.0x80	18.0	CNA4.0x75	-	6.5
GSI660/4X	6.0	SSH12.0x80	22.0	CNA4.0x75	9.1	-
GSI660/4X-AL	4.0	SSH12.0x80	20.0	CNA4.0x75	-	6.5
GSI720/4X	6.0	SSH12.0x80	26.0	CNA4.0x75	10	-
GSI720/4X-AL	6.0	SSH12.0x80	24.0	CNA4.0x75	-	9.7
GSI780/4X	6.0	SSH12.0x80	28.0	CNA4.0x75	10.2	-
GSI780/4X-AL	6.0	SSH12.0x80	26.0	CNA4.0x75	-	10.1
GSI840/4X	6.0	SSH12.0x80	32.0	CNA4.0x75	10.3	-
GSI840/4X-AL	6.0	SSH12.0x80	30.0	CNA4.0x75	-	10.1
GSI900/4X	6.0	SSH12.0x80	36.0	CNA4.0x75	10.3	-
GSI900/4X-AL	6.0	SSH12.0x80	32.0	CNA4.0x75	-	10.2
GSI960/4X	6.0	SSH12.0x80	38.0	CNA4.0x75	10.4	-
GSI960/4X-AL	6.0	SSH12.0x80	34.0	CNA4.0x75	-	10.3
GSI1020/4X	6.0	SSH12.0x80	40.0	CNA4.0x75	10.4	-
GSI1020/4X-AL	6.0	SSH12.0x80	38.0	CNA4.0x75	-	10.3

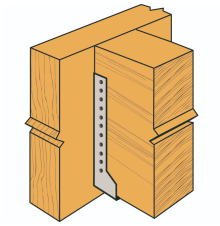
Installation

Fixing

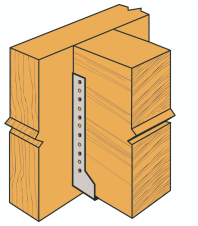
Joist :
Connector Nails CNA Ø 4.0 x 50 mm.
Connector Nails CNA Ø 4.0 x 35 mm for width smaller than 64 mm.
Screws CSA Ø 5.0 x 40 mm.
Screws CSA Ø 5.0 x 35 mm for width smaller than 60 mm.
Header :
Timber
Connector Nails CNA Ø 4.0 x 50 mm.
Connector Nails CNA Ø 4.0 x 35 mm for width smaller than 64 mm.
Screws CSA Ø 5.0 x 40 mm.
Screws CSA Ø 5.0 x 35 mm for width smaller than 60 mm.
Steel :
Bolt Ø 12 or Ø 10 mm depending of the blank model (The diameter of the model must be maximum 2mm smaller than the hole diameter).
Internal flange joist hangers are not for use on concrete and masonry

Installation

Timber



Full nailing



Partial nailing

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