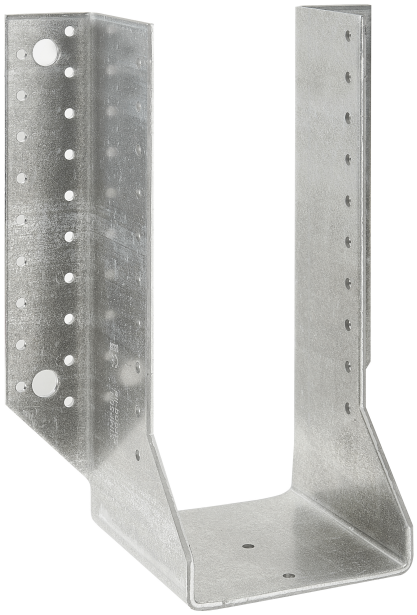
Technical Sheet

GSE 4
Balkenschuh

GSE Balkenschuhe eignen sich vornehmlich zur Befestigung größerer Brettschichthölzer an Holz, Beton oder Stahl. Sie dienen speziell den Anschlüssen mit höheren BSH Querschnitten. In der Materialstärke 4,0 mm in Verbindung mit CNA 4,0x75 Kammnägeln ist eine Brandschutzausführung für R30 zugelassen.



Features

Material

Stahlqualität:

- S 250 GD +Z 275 gemäß DIN EN 10346

Korrosionsschutz:

- 275 g/m2 beidseitig - entsprechend einer Zinkschichtdicke von ca. 20 µm

Blechdicke: 4 mm

Vorteile

- Schnelle und einfache Installation
- In der Materialstärke 4,0 mm in Verbindung mit CNA 4,0x75 Kammnägeln ist eine Brandschutzausführung für R30 zugelassen. Heißbemessung siehe ETA.

Applications

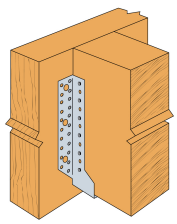
Anwendbare Materialien

Auflager:

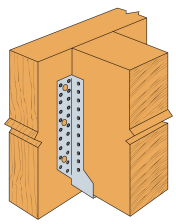
- Holz, Holzwerkstoffe, Beton, Stahl, Mauerwerk

Aufzulagerndes Bauteil:

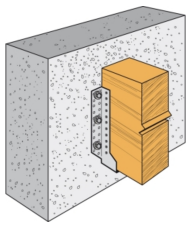
- Holz, Holzwerkstoffe



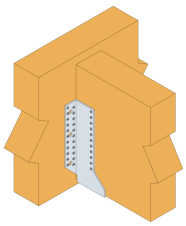
Teilausnagelung an Holz



Vollausnagelung an Holz

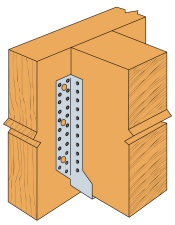


Befestigung an Beton

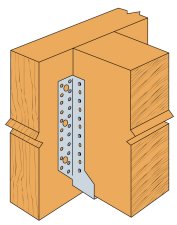




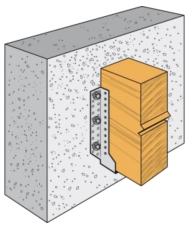
Großen außenliegende Balkenschuhe GSE



Vollausnagelung an Holz



Teilausnagelung an Holz



Befestigung an Beton

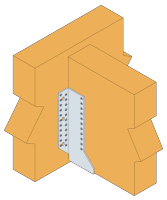
Technical Sheet

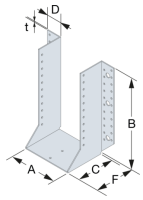
GSE 4
Balkenschuh

Technische Daten

Technical Sheet

GSE 4
Balkenschuh





Abmessungen

Referenz	Verbinder Abmessungen												
	Abmessungen des Nebenträgers[mm]			Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
	Breite[mm]	Höhe [mm]		A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Rund		Rund	Gewicht[kg]
		Min. [mm]	Max. [mm]							Ø5	Ø13	Ø5	
GSE300/32/4	32	144	201	32	134	110	45.5	118	4	12	2	6	1
GSE340/32/4	32	164	231	32	154	110	45.5	118	4	16	2	8	1.2
GSE300/38/4	38	141	197	38	131	110	45.5	118	4	12	2	6	1
GSE340/38/4	38	161	227	38	151	110	45.5	118	4	16	2	8	1.2
GSE440/38/4	38	211	302	38	201	110	45.5	118	4	22	4	12	1.5
GSE300/50/4	50	135	188	50	125	110	45.5	118	4	12	2	6	1
GSE340/50/4	50	155	218	50	145	110	45.5	118	4	16	2	8	1.2
GSE500/50/4	50	235	338	50	225	110	45.5	118	4	28	4	14	1.6
GSE300/64/4	64	128	177	64	118	110	45.5	118	4	12	2	6	1
GSE340/64/4	64	148	207	64	138	110	45.5	118	4	16	2	8	1.2
GSE380/64/4	64	168	237	64	158	110	45.5	118	4	16	4	8	1.3
GSE380/70/4	70	165	233	70	155	110	45.5	118	4	16	4	8	1.3
GSE440/70/4	70	195	278	70	185	110	45.5	118	4	22	4	12	1.5
GSE500/70/4	70	225	323	70	215	110	45.5	118	4	28	4	14	1.6
GSE380/76/4	76	162	228	76	152	110	45.5	118	4	16	4	8	1.3
GSE440/76/4	76	192	273	76	182	110	45.5	118	4	22	4	12	1.5
GSE500/76/4	76	222	318	76	212	110	45.5	118	4	28	4	14	1.6
GSE380/80/4	80	160	225	80	150	110	45.5	118	4	16	4	8	1.3
GSE440/80/4	80	190	270	80	180	110	45.5	118	4	22	4	12	1.5
GSE500/80/4	80	220	315	80	210	110	45.5	118	4	28	4	14	1.6
GSE540/80/4	80	240	345	80	230	110	45.5	118	4	32	4	16	1.8
GSE600/80/4	80	270	390	80	260	110	45.5	118	4	38	4	20	2
GSE660/80/4	80	300	435	80	290	110	45.5	118	4	44	6	22	2.1
GSE720/80/4	80	330	480	80	320	110	45.5	118	4	50	6	26	2.3
GSE780/80/4	80	360	525	80	350	110	45.5	118	4	56	6	28	2.7
GSE840/80/4	80	390	570	80	380	110	45.5	118	4	62	6	32	2.9
GSE900/80/4	80	420	615	80	410	110	45.5	118	4	68	6	36	3
GSE960/80/4	80	450	660	80	440	110	45.5	118	4	74	6	38	3.2
GSE1020/80/4	80	480	705	80	470	110	45.5	118	4	80	6	40	3.4
GSE380/90/4	90	155	218	90	145	110	45.5	118	4	16	4	8	1.3
GSE440/90/4	90	185	263	90	175	110	45.5	118	4	22	4	12	1.5
GSE500/90/4	90	215	308	90	205	110	45.5	118	4	28	4	14	1.6
GSE540/90/4	90	235	338	90	225	110	45.5	118	4	32	4	16	1.8
GSE600/90/4	90	265	383	90	255	110	45.5	118	4	38	4	20	2
GSE660/90/4	90	295	428	90	285	110	45.5	118	4	44	6	22	2.1
GSE720/90/4	90	325	473	90	315	110	45.5	118	4	50	6	26	2.3
GSE780/90/4	90	355	518	90	345	110	45.5	118	4	56	6	28	2.7
GSE840/90/4	90	385	563	90	375	110	45.5	118	4	62	6	32	2.9
GSE900/90/4	90	415	608	90	405	110	45.5	118	4	68	6	36	3
GSE960/90/4	90	445	653	90	435	110	45.5	118	4	74	6	38	3.2

Technical Sheet

GSE 4
Balkenschuh

SIMPSON Strong-Tie

Referenz	Verbinder Abmessungen												
	Abmessungen des Nebenträgers[mm]			Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
	Breite[mm]	Höhe [mm]		A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Rund		Rund	Gewicht[kg]
		Min. [mm]	Max. [mm]							Ø5	Ø13	Ø5	
GSE1020/90/4	90	475	698	90	465	110	45.5	118	4	80	6	40	3.4
GSE380/100/4	100	150	210	100	140	110	45.5	118	4	16	2	8	1.3
GSE440/100/4	100	180	255	100	170	110	45.5	118	4	22	4	12	1.5
GSE500/100/4	100	210	300	100	200	110	45.5	118	4	28	4	14	1.6
GSE540/100/4	100	230	330	100	220	110	45.5	118	4	32	4	16	1.9
GSE600/100/4	100	260	375	100	250	110	45.5	118	4	38	4	20	2
GSE660/100/4	100	290	420	100	280	110	45.5	118	4	44	6	22	2.1
GSE720/100/4	100	320	465	100	310	110	45.5	118	4	50	6	26	2.3
GSE780/100/4	100	350	510	100	340	110	45.5	118	4	56	6	28	2.7
GSE840/100/4	100	380	555	100	370	110	45.5	118	4	62	6	32	2.9
GSE900/100/4	100	410	600	100	400	110	45.5	118	4	68	6	36	3
GSE960/100/4	100	440	645	100	430	110	45.5	118	4	74	6	38	3.2
GSE1020/100/4	100	470	690	100	460	110	45.5	118	4	80	6	40	3.4
GSE540/120/4	120	220	315	120	210	110	45.5	118	4	32	4	16	1.9
GSE600/120/4	120	250	360	120	240	110	45.5	118	4	38	4	20	2
GSE660/120/4	120	280	405	120	270	110	45.5	118	4	44	6	22	2.1
GSE720/120/4	120	310	450	120	300	110	45.5	118	4	50	6	26	2.3
GSE780/120/4	120	340	495	120	330	110	45.5	118	4	56	6	28	2.7
GSE840/120/4	120	370	540	120	360	110	45.5	118	4	62	6	32	2.9
GSE900/120/4	120	400	585	120	390	110	45.5	118	4	68	6	36	3
GSE960/120/4	120	430	630	120	420	110	45.5	118	4	74	6	38	3.2
GSE1020/120/4	120	460	675	120	450	110	45.5	118	4	80	6	40	3.4
GSE500/140/4	140	190	270	140	180	110	45.5	118	4	22	2	12	1.6
GSE540/140/4	140	210	300	140	200	110	45.5	118	4	26	4	14	1.8
GSE600/140/4	140	240	345	140	230	110	45.5	118	4	32	4	18	2
GSE660/140/4	140	270	390	140	260	110	45.5	118	4	38	4	20	2.1
GSE720/140/4	140	300	435	140	290	110	45.5	118	4	44	6	24	2.3
GSE780/140/4	140	330	480	140	320	110	45.5	118	4	50	6	26	2.7
GSE840/140/4	140	360	525	140	350	110	45.5	118	4	56	6	30	2.9
GSE900/140/4	140	390	570	140	380	110	45.5	118	4	62	6	32	3
GSE960/140/4	140	420	615	140	410	110	45.5	118	4	68	6	34	3.2
GSE1020/140/4	140	450	660	140	440	110	45.5	118	4	74	6	38	3.4
GSE500/160/4	160	180	255	160	170	110	45.5	118	4	22	2	12	1.6
GSE540/160/4	160	200	285	160	190	110	45.5	118	4	26	4	14	1.8
GSE600/160/4	160	230	330	160	220	110	45.5	118	4	32	4	18	2
GSE660/160/4	160	260	375	160	250	110	45.5	118	4	38	4	20	2.1
GSE720/160/4	160	290	420	160	280	110	45.5	118	4	44	6	24	2.3
GSE780/160/4	160	320	465	160	310	110	45.5	118	4	50	6	26	2.7
GSE840/160/4	160	350	510	160	340	110	45.5	118	4	56	6	30	2.9
GSE900/160/4	160	380	555	160	370	110	45.5	118	4	62	6	32	3
GSE960/160/4	160	410	600	160	400	110	45.5	118	4	68	6	34	3.2
GSE1020/160/4	160	440	645	160	430	110	45.5	118	4	74	6	38	3.4
GSE500/180/4	180	170	240	180	160	110	45.5	118	4	22	2	12	1.6
GSE540/180/4	180	190	270	180	180	110	45.5	118	4	26	4	14	1.8
GSE600/180/4	180	220	315	180	210	110	45.5	118	4	32	4	18	2
GSE660/180/4	180	250	360	180	240	110	45.5	118	4	38	4	20	2.1
GSE720/180/4	180	280	405	180	270	110	45.5	118	4	44	6	24	2.3

Technical Sheet

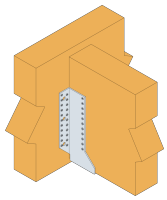
GSE 4
Balkenschuh

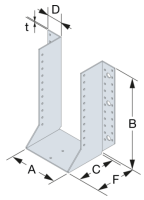
Referenz	Verbinder Abmessungen												
	Abmessungen des Nebenträgers[mm]			Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
	Breite[mm]	Höhe [mm]		A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Rund		Rund	Gewicht[kg]
		Min. [mm]	Max. [mm]							Ø5	Ø13	Ø5	
GSE780/180/4	180	310	450	180	300	110	45.5	118	4	50	6	26	2.7
GSE840/180/4	180	340	495	180	330	110	45.5	118	4	56	6	30	2.9
GSE900/180/4	180	370	540	180	360	110	45.5	118	4	62	6	32	3
GSE960/180/4	180	400	585	180	390	110	45.5	118	4	68	6	34	3.2
GSE1020/180/4	180	430	630	180	420	110	45.5	118	4	74	6	38	3.4
GSE500/200/4	200	160	225	200	150	110	45.5	118	4	22	2	12	1.6
GSE540/200/4	200	180	255	200	170	110	45.5	118	4	26	4	14	1.8
GSE600/200/4	200	210	300	200	200	110	45.5	118	4	32	4	18	2
GSE660/200/4	200	240	345	200	230	110	45.5	118	4	38	4	20	2.1
GSE720/200/4	200	270	390	200	260	110	45.5	118	4	44	6	24	2.3
GSE780/200/4	200	300	435	200	290	110	45.5	118	4	50	6	26	2.7
GSE840/200/4	200	330	480	200	320	110	45.5	118	4	56	6	30	2.9
GSE900/200/4	200	360	525	200	350	110	45.5	118	4	62	6	32	3
GSE960/200/4	200	390	570	200	380	110	45.5	118	4	68	6	34	3.2
GSE1020/200/4	200	420	615	200	410	110	45.5	118	4	74	6	38	3.4

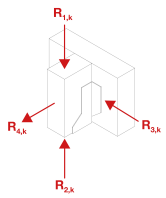
Technical Sheet

GSE 4
Balkenschuh

Tragfähigkeiten - Balken an Balken - Vollausnagelung







Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE300/32/4	12.0	6.0	-	-	-	-
GSE340/32/4	16.0	8.0	-	-	-	-
GSE300/38/4	12.0	6.0	-	-	-	-
GSE340/38/4	16.0	8.0	-	-	-	-
GSE440/38/4	22.0	12.0	-	-	-	-
GSE300/50/4	12.0	6.0	-	-	-	-
GSE340/50/4	16.0	8.0	-	-	-	-
GSE500/50/4	28.0	14.0	-	-	-	-
GSE300/64/4	12.0	6.0	10.9	4.3	4.3	5.9
GSE340/64/4	16.0	8.0	15	6.9	5.5	7.8
GSE380/64/4	16.0	8.0	18.1	6.9	5.5	7.8
GSE380/70/4	16.0	8.0	17.6	6.9	5.8	7.8
GSE440/70/4	22.0	12.0	25	11.9	8.2	11.8
GSE500/70/4	28.0	14.0	31.9	18.1	9	13.7
GSE380/76/4	16.0	8.0	17.2	6.9	6	7.8
GSE440/76/4	22.0	12.0	24.5	11.9	8.6	11.8
GSE500/76/4	28.0	14.0	31.9	18.1	9.4	13.7
GSE380/80/4	16.0	8.0	16.9	6.9	6.1	7.8
GSE440/80/4	22.0	12.0	24.1	11.9	8.8	11.8
GSE500/80/4	28.0	14.0	31.9	18.1	9.7	13.7
GSE540/80/4	32.0	16.0	35.9	22.7	10.6	15.7
GSE600/80/4	38.0	20.0	43.9	30.5	12.4	19.6
GSE660/80/4	44.0	22.0	47.9	39	12.8	21.6
GSE720/80/4	50.0	26.0	55.8	46.1	14.1	25.5
GSE780/80/4	56.0	28.0	59.8	49.6	14.2	27.4
GSE840/80/4	62.0	32.0	67.8	56.7	15.2	31.4
GSE900/80/4	68.0	36.0	75.8	63.8	16.1	33.3
GSE960/80/4	74.0	38.0	79.8	67.4	15.9	37.2
GSE1020/80/4	80.0	40.0	83.8	70.9	15.8	39.2
GSE380/90/4	16.0	8.0	16.2	6.9	6.4	7.8
GSE440/90/4	22.0	12.0	23.2	11.9	9.2	11.8
GSE500/90/4	28.0	14.0	31.5	18.1	10.2	13.7
GSE540/90/4	32.0	16.0	35.9	22.7	11.3	15.7
GSE600/90/4	38.0	20.0	43.9	30.5	13.3	19.6
GSE660/90/4	44.0	22.0	47.9	39	13.8	21.6
GSE720/90/4	50.0	26.0	55.8	46.1	15.3	25.5
GSE780/90/4	56.0	28.0	59.8	49.6	15.5	27.4
GSE840/90/4	62.0	32.0	67.8	56.7	16.6	31.4
GSE900/90/4	68.0	36.0	75.8	63.8	17.6	33.3
GSE960/90/4	74.0	38.0	79.8	67.4	17.5	37.2
GSE1020/90/4	80.0	40.0	83.8	70.9	17.4	39.2

Technical Sheet

GSE 4
Balkenschuh

Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE380/100/4	16.0	8.0	15.4	6.9	6.6	7.8
GSE440/100/4	22.0	12.0	22.3	11.9	9.6	11.8
GSE500/100/4	28.0	14.0	30.5	18.1	10.7	13.7
GSE540/100/4	32.0	16.0	35.9	22.7	11.8	15.7
GSE600/100/4	38.0	20.0	43.9	30.5	14	19.6
GSE660/100/4	44.0	22.0	47.9	39	14.6	21.6
GSE720/100/4	50.0	26.0	55.8	46.1	16.3	25.5
GSE780/100/4	56.0	28.0	59.8	49.6	16.6	27.4
GSE840/100/4	62.0	32.0	67.8	56.7	17.9	31.4
GSE900/100/4	68.0	36.0	75.8	63.8	19	33.3
GSE960/100/4	74.0	38.0	79.8	67.4	19	37.2
GSE1020/100/4	80.0	40.0	83.8	70.9	18.9	39.2
GSE540/120/4	32.0	16.0	34	22.7	12.7	15.7
GSE600/120/4	38.0	20.0	43.1	30.5	15.2	19.6
GSE660/120/4	44.0	22.0	47.9	39	16	21.6
GSE720/120/4	50.0	26.0	55.8	46.1	18	25.5
GSE780/120/4	56.0	28.0	59.8	49.6	18.5	27.4
GSE840/120/4	62.0	32.0	67.8	56.7	20.1	31.4
GSE900/120/4	68.0	36.0	75.8	63.8	21.5	33.3
GSE960/120/4	74.0	38.0	79.8	67.4	21.6	37.2
GSE1020/120/4	80.0	40.0	83.8	70.9	21.6	39.2
GSE500/140/4	22.0	12.0	24.1	11.9	10.5	11.8
GSE540/140/4	26.0	14.0	29.5	15.9	12	11.8
GSE600/140/4	32.0	18.0	38.2	22.7	15	15.7
GSE660/140/4	38.0	20.0	43.9	30.5	16.1	19.6
GSE720/140/4	44.0	24.0	51.9	39	18.6	23.5
GSE780/140/4	50.0	26.0	55.8	46.1	19.3	25.5
GSE840/140/4	56.0	30.0	63.8	53.2	21.4	29.4
GSE900/140/4	62.0	32.0	67.8	56.7	21.8	31.4
GSE960/140/4	68.0	34.0	71.8	60.3	22.2	33.3
GSE1020/140/4	74.0	38.0	79.8	67.4	23.8	39.2
GSE500/160/4	22.0	12.0	22.3	11.9	10.7	11.8
GSE540/160/4	26.0	14.0	27.6	15.9	12.3	11.8
GSE600/160/4	32.0	18.0	36.1	22.7	15.5	15.7
GSE660/160/4	38.0	20.0	43.9	30.5	16.8	19.6
GSE720/160/4	44.0	24.0	51.9	39	19.5	23.5
GSE780/160/4	50.0	26.0	55.8	46.1	20.4	25.5
GSE840/160/4	56.0	30.0	63.8	53.2	22.7	29.4
GSE900/160/4	62.0	32.0	67.8	56.7	23.3	31.4
GSE960/160/4	68.0	34.0	71.8	60.3	23.8	33.3
GSE1020/160/4	74.0	38.0	79.8	67.4	25.6	39.2
GSE500/180/4	22.0	12.0	20.3	11.9	10.9	11.8
GSE540/180/4	26.0	14.0	25.4	15.9	12.6	11.8
GSE600/180/4	32.0	18.0	33.8	22.7	15.9	15.7
GSE660/180/4	38.0	20.0	43.1	30.5	17.3	19.6
GSE720/180/4	44.0	24.0	51.9	39	20.1	23.5
GSE780/180/4	50.0	26.0	55.8	46.1	21.2	25.5

Technical Sheet

GSE 4
Balkenschuh

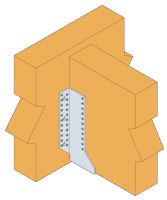
Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE840/180/4	56.0	30.0	63.8	53.2	23.7	29.4
GSE900/180/4	62.0	32.0	67.8	56.7	24.5	31.4
GSE960/180/4	68.0	34.0	71.8	60.3	25.1	33.3
GSE1020/180/4	74.0	38.0	79.8	67.4	27.2	37.2
GSE500/200/4	22.0	12.0	18.3	11.9	11.1	11.8
GSE540/200/4	26.0	14.0	23.2	15.9	12.8	11.8
GSE600/200/4	32.0	18.0	31.3	22.7	16.2	15.7
GSE660/200/4	38.0	20.0	40.6	30.5	17.6	19.6
GSE720/200/4	44.0	24.0	50.3	39	20.7	23.5
GSE780/200/4	50.0	26.0	55.8	46.1	21.8	25.5
GSE840/200/4	56.0	30.0	63.8	53.2	24.5	29.4
GSE900/200/4	62.0	32.0	67.8	56.7	25.4	31.4
GSE960/200/4	68.0	34.0	71.8	60.3	26.2	33.3
GSE1020/200/4	74.0	38.0	79.8	67.4	28.5	37.2

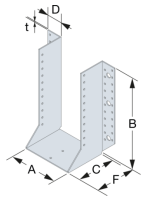
Technical Sheet

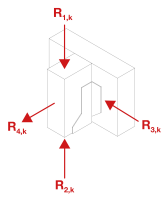
GSE 4
Balkenschuh

SIMPSON Strong-Tie

Tragfähigkeiten - Balken an Balken - Teilausnagelung







Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Teilausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE300/32/4	6.0	4.0	-	-	-	-
GSE340/32/4	8.0	4.0	-	-	-	-
GSE300/38/4	6.0	4.0	-	-	-	-
GSE340/38/4	8.0	4.0	-	-	-	-
GSE440/38/4	12.0	6.0	-	-	-	-
GSE300/50/4	6.0	4.0	-	-	-	-
GSE340/50/4	8.0	4.0	-	-	-	-
GSE500/50/4	14.0	8.0	-	-	-	-
GSE300/64/4	6.0	4.0	6.5	2	2.8	2.9
GSE340/64/4	8.0	4.0	9.1	3.3	2.8	3.9
GSE380/64/4	8.0	4.0	10.5	3.3	2.8	3.9
GSE380/70/4	8.0	4.0	10.3	3.3	2.9	3.9
GSE440/70/4	12.0	6.0	14.7	6.7	4.1	5.9
GSE500/70/4	14.0	8.0	18.3	8.8	5.1	6.9
GSE380/76/4	8.0	4.0	10.1	3.3	3	3.9
GSE440/76/4	12.0	6.0	14.5	6.7	4.3	5.9
GSE500/76/4	14.0	8.0	18	8.8	5.4	6.9
GSE380/80/4	8.0	4.0	9.9	3.3	3.1	3.9
GSE440/80/4	12.0	6.0	14.3	6.7	4.4	5.9
GSE500/80/4	14.0	8.0	17.8	8.8	5.5	6.9
GSE540/80/4	16.0	8.0	19.9	11.1	5.3	7.8
GSE600/80/4	20.0	10.0	23.9	16.3	6.2	9.8
GSE660/80/4	22.0	12.0	27.9	19.2	7	10.8
GSE720/80/4	26.0	14.0	31.9	24.8	7.6	12.7
GSE780/80/4	28.0	14.0	31.9	24.8	7.1	13.7
GSE840/80/4	32.0	16.0	35.9	28.4	7.6	15.7
GSE900/80/4	34.0	18.0	39.9	31.9	8	16.7
GSE960/80/4	38.0	20.0	43.9	35.5	8.4	18.6
GSE1020/80/4	40.0	20.0	43.9	35.5	7.9	19.6
GSE380/90/4	8.0	4.0	9.6	3.3	3.2	3.9
GSE440/90/4	12.0	6.0	13.8	6.7	4.6	5.9
GSE500/90/4	14.0	8.0	17.3	8.8	5.8	6.9
GSE540/90/4	16.0	8.0	19.9	11.1	5.6	7.8
GSE600/90/4	20.0	10.0	23.9	16.3	6.6	9.8
GSE660/90/4	22.0	12.0	27.9	19.2	7.5	10.8
GSE720/90/4	26.0	14.0	31.9	24.8	8.2	12.7
GSE780/90/4	28.0	14.0	31.9	24.8	7.7	13.7
GSE840/90/4	32.0	16.0	35.9	28.4	8.3	15.7

A, B und C sind die inneren Abmessungen des Balkenschuhs.

Technical Sheet

GSE 4
Balkenschuh

Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Teilausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE900/90/4	34.0	18.0	39.9	31.9	8.8	16.7
GSE960/90/4	38.0	20.0	43.9	35.5	9.2	18.6
GSE1020/90/4	40.0	20.0	43.9	35.5	8.7	19.6
GSE380/100/4	8.0	4.0	9.2	3.3	3.3	3.9
GSE440/100/4	12.0	6.0	13.3	6.7	4.8	5.9
GSE500/100/4	14.0	8.0	16.8	8.8	6.1	6.9
GSE540/100/4	16.0	8.0	19.9	11.1	5.9	7.8
GSE600/100/4	20.0	10.0	23.9	16.3	7	9.8
GSE660/100/4	22.0	12.0	27.9	19.2	8	10.8
GSE720/100/4	26.0	14.0	31.9	24.8	8.8	12.7
GSE780/100/4	28.0	14.0	31.9	24.8	8.3	13.7
GSE840/100/4	32.0	16.0	35.9	28.4	8.9	15.7
GSE900/100/4	34.0	18.0	39.9	31.9	9.5	16.7
GSE960/100/4	38.0	20.0	43.9	35.5	10	18.6
GSE1020/100/4	40.0	20.0	43.9	35.5	9.5	19.6
GSE540/120/4	16.0	8.0	19	11.1	6.3	7.8
GSE600/120/4	20.0	10.0	23.9	16.3	7.6	9.8
GSE660/120/4	22.0	12.0	27.9	19.2	8.7	10.8
GSE720/120/4	26.0	14.0	31.9	24.8	9.7	12.7
GSE780/120/4	28.0	14.0	31.9	24.8	9.2	13.7
GSE840/120/4	32.0	16.0	35.9	28.4	10	15.7
GSE900/120/4	34.0	18.0	39.9	31.9	10.7	16.7
GSE960/120/4	38.0	20.0	43.9	35.5	11.4	18.6
GSE1020/120/4	40.0	20.0	43.9	35.5	10.8	19.6
GSE500/140/4	12.0	6.0	14.3	6.7	5.2	5.9
GSE540/140/4	14.0	8.0	16.8	8.8	6.9	6.9
GSE600/140/4	18.0	10.0	21.8	13.6	8.3	8.8
GSE660/140/4	20.0	10.0	23.9	16.3	8	9.8
GSE720/140/4	24.0	12.0	27.9	21.3	9.3	11.8
GSE780/140/4	26.0	13.0	31.9	24.8	10.4	12.7
GSE840/140/4	30.0	15.0	35.9	28.4	11.4	14.7
GSE900/140/4	32.0	16.0	35.9	28.4	10.9	15.7
GSE960/140/4	36.0	17.0	39.9	31.9	11.8	16.7
GSE1020/140/4	38.0	19.0	43.9	35.5	12.5	18.6
GSE500/160/4	12.0	6.0	13.3	6.7	5.4	5.9
GSE540/160/4	14.0	8.0	15.8	8.8	7.1	6.9
GSE600/160/4	18.0	10.0	23.9	16.3	8.6	8.8
GSE660/160/4	20.0	10.0	23.9	16.3	8.4	9.8
GSE720/160/4	24.0	12.0	27.9	21.3	9.7	11.8
GSE780/160/4	26.0	13.0	31.9	24.8	11	12.7
GSE840/160/4	30.0	15.0	35.9	28.4	12.1	14.7
GSE900/160/4	32.0	16.0	35.9	28.4	11.7	15.7
GSE960/160/4	36.0	17.0	39.9	31.9	12.6	16.7
GSE1020/160/4	38.0	19.0	43.9	35.5	13.5	18.6

A, B und C sind die inneren Abmessungen des Balkenschuhs.

Technical Sheet

GSE 4
Balkenschuh

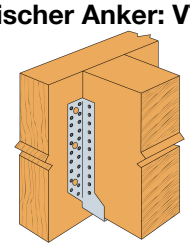
Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Teilausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GSE500/180/4	12.0	6.0	12.2	6.7	5.5	5.9
GSE540/180/4	14.0	8.0	14.7	8.8	7.2	6.9
GSE600/180/4	18.0	10.0	23.9	16.3	8.8	8.8
GSE660/180/4	20.0	10.0	23.9	16.3	8.6	9.8
GSE720/180/4	24.0	12.0	27.9	21.3	10.1	11.8
GSE780/180/4	26.0	13.0	31.9	24.8	11.4	12.7
GSE840/180/4	30.0	15.0	35.9	28.4	12.6	14.7
GSE900/180/4	32.0	16.0	35.9	28.4	12.2	15.7
GSE960/180/4	36.0	17.0	39.9	31.9	13.3	16.7
GSE1020/180/4	38.0	19.0	43.9	35.5	14.3	18.6
GSE500/200/4	12.0	6.0	11.1	6.7	5.5	5.9
GSE540/200/4	14.0	8.0	13.5	8.8	7.3	6.9
GSE600/200/4	18.0	10.0	22.7	16.3	9	8.8
GSE660/200/4	20.0	10.0	22.7	16.3	8.8	9.8
GSE720/200/4	24.0	12.0	27.9	21.3	10.3	11.8
GSE780/200/4	26.0	13.0	31.9	24.8	11.8	12.7
GSE840/200/4	30.0	15.0	35.9	28.4	13.1	14.7
GSE900/200/4	32.0	16.0	35.9	28.4	12.7	15.7
GSE960/200/4	36.0	17.0	39.9	31.9	13.9	16.7
GSE1020/200/4	38.0	19.0	43.9	35.5	15	18.6

A, B und C sind die inneren Abmessungen des Balkenschuhs.

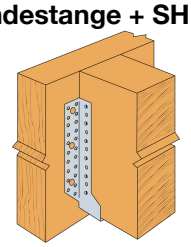
Installation

Befestigungsmittel

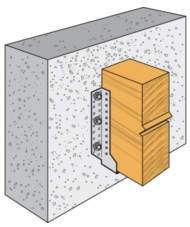
Die angegebenen Tragfähigkeiten des Verbinders sind gültig bei der Verwendung von CE gekennzeichneten Verbindungsmitteln nach ETA-04/0013.
<u>Nebenträger:</u>
CNA Kammnägel Ø 4.0x50 mm
CNA Kammnägel Ø 4.0x35 mm bei einer Breite kleiner 64 mm
CSA Schrauben Ø 5.0x40 mm
CSA Schruaben Ø 5.0x35 mm bei einer Breite kleiner 60 mm
R30 Ausführung: CNA Ø4.0 x 75 mm Kammnägel oder CSA 5,0 x 80-DE Schrauben
<u>Hauptträger</u>:
Holz Untergrund:
CNA Kammnägel Ø 4.0x50 mm
CSA Schrauben Ø 5.0x40 mm
R30 Ausführung: CNA Ø 4.0x75 mm Kammnägel oder CSA 5,0 x 80-DE Schrauben
Stahl Untergrund:
Bolzen Ø 12 mm (das Lochspiel ist auf maximal 2mm begrenzt).
Beton Untergrund:
Mechanicher Anker: BOAX-II M12-103/5 od. FM-753 M12x110 (verschiedene Ausführungen)
Chemischer Anker: VT-HP Mörtel + M12er Gewindestange.
Mauerwerk Untergrund:
Chemischer Anker: VT-HP + M12er Gewindestange + SHM20085 Siebhülse.



Vollausnagelung an Holz



Teilausnagelung an Holz



Befestigung an Beton







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