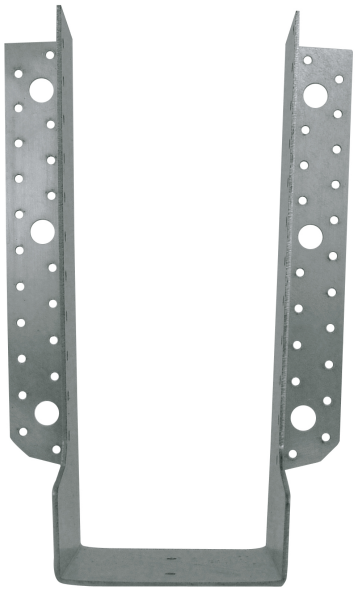
Technical Sheet

GLE 2.5
Balkenschuhe GLE

Balkenschuhe GLE eignen sich vornehmlich zur Befestigung größerer Brettschichthölzer an Holz, Beton oder Stahl. Sie dienen speziell den Anschlüssen mit höheren BSH Querschnitten.



Features

Material

Stahlqualität:
S 250 GD +Z 275 gemäß DIN EN 10346
Korrosionsschutz:
275 g/m2 beidseitig - entsprechend einer Zinkschichtdicke von ca. 20 µm

Vorteile

Schnelle und einfache Installation

Applications

Anwendbare Materialien

Auflager:

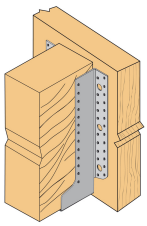
- Holz, Holzwerkstoffe, Beton, Stahl

Aufzulagerndes Bauteil:

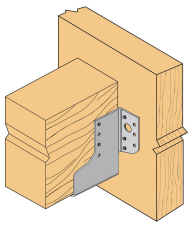
- Holz, Holzwerkstoffe

Anwendungsbereich

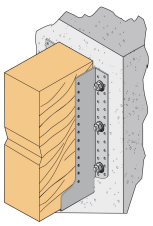
- Anschlüsse von Nebenträgern aus Holz oder Holzwerkstoffen an Hauptträger/ Stützen aus Holz/Holzwerkstoffen oder Beton/ Stahl / Mauerwerk



Vollausnagelung



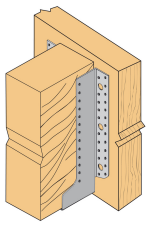
Teilausnagelung



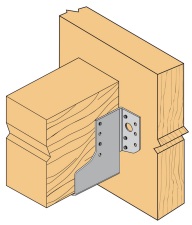
Anschluss an Beton



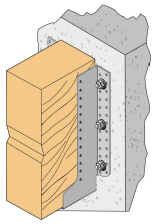
Large hanger with external flanges



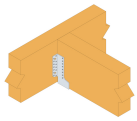
Vollausnagelung



Teilausnagelung



Anschluss an Beton



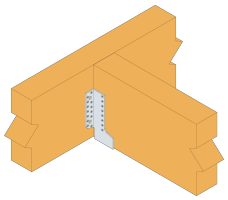
GLE 2.5
Balkenschuhe GLE

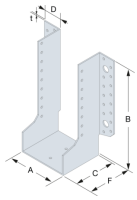
Technische Daten

Technical Sheet

GLE 2.5

Balkenschuhe GLE





Abmessungen

Referenz	Verbinder Abmessungen									
	Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
							Rund		Rund	
	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Ø5	Ø14	Ø5	Gewicht[kg]
GLE440/38/2,5	38	201	90	38.5	95	2.5	20	4	12	0.74
GLE500/50/2,5	50	225	90	38.5	95	2.5	26	4	15	0.82
GLE380/64/2,5	64	158	90	38.5	95	2.5	20	2	11	0.65
GLE380/70/2,5	70	155	90	38.5	95	2.5	20	2	11	0.65
GLE440/70/2,5	70	185	90	38.5	95	2.5	20	4	12	0.74
GLE500/70/2,5	70	215	90	38.5	95	2.5	26	4	15	0.82
GLE380/76/2.5	76	152	90	38.5	95	2.5	20	2	11	0.7
GLE440/76/2,5	76	182	90	38.5	95	2.5	20	4	12	0.74
GLE500/76/2,5	76	212	90	38.5	95	2.5	26	4	15	0.82
GLE380/80/2,5	80	150	90	38.5	95	2.5	20	2	11	0.65
GLE440/80/2,5	80	180	90	38.5	95	2.5	20	4	12	0.74
GLE500/80/2,5	80	210	90	38.5	95	2.5	26	4	15	0.82
GLE540/80/2.5	80	230	90	38.5	95	2.5	30	4	17	0.99
GLE600/80/2.5	80	260	90	38.5	95	2.5	36	4	20	1.1
GLE660/80/2,5	80	290	90	38.5	95	2.5	40	6	23	1.1
GLE720/80/2,5	80	320	90	38.5	95	2.5	46	6	26	1.2
GLE780/80/2,5	80	350	90	38.5	95	2.5	48	6	29	1.4
GLE840/80/2,5	80	380	90	38.5	95	2.5	54	6	32	1.5
GLE900/80/2,5	80	410	90	38.5	95	2.5	60	6	35	1.6
GLE960/80/2,5	80	440	90	38.5	95	2.5	64	8	38	1.7
GLE1020/80/2,5	80	470	90	38.5	95	2.5	70	8	41	1.8
GLE380/90/2,5	90	145	90	38.5	95	2.5	20	2	11	0.65
GLE440/90/2,5	90	175	90	38.5	95	2.5	20	4	12	0.74
GLE500/90/2,5	90	205	90	38.5	95	2.5	26	4	15	0.82
GLE540/90/2.5	90	225	90	38.5	95	2.5	30	4	17	0.99
GLE600/90/2.5	90	255	90	38.5	95	2.5	36	4	20	1.1
GLE660/90/2.5	90	285	90	38.5	95	2.5	40	6	23	1.2
GLE720/90/2,5	90	315	90	38.5	95	2.5	46	6	26	1.2
GLE780/90/2,5	90	345	90	38.5	95	2.5	48	6	29	1.4
GLE840/90/2,5	90	375	90	38.5	95	2.5	54	6	32	1.5
GLE900/90/2,5	90	405	90	38.5	95	2.5	60	6	35	1.6
GLE960/90/2,5	90	435	90	38.5	95	2.5	64	8	38	1.7
GLE1020/90/2,5	90	465	90	38.5	95	2.5	70	8	41	1.8
GLE380/100/2,5	100	140	90	38.5	95	2.5	20	2	11	0.65
GLE440/100/2,5	100	170	90	38.5	95	2.5	20	4	12	0.74
GLE500/100/2,5	100	200	90	38.5	95	2.5	26	4	15	0.82
GLE540/100/2.5	100	220	90	38.5	95	2.5	30	4	17	0.92
GLE600/100/2.5	100	250	90	38.5	95	2.5	36	4	20	0.98
GLE660/100/2,5	100	280	90	38.5	95	2.5	40	6	23	1.1
GLE720/100/2,5	100	310	90	38.5	95	2.5	46	6	26	1.2
GLE780/100/2,5	100	340	90	38.5	95	2.5	48	6	29	1.4
GLE840/100/2,5	100	370	90	38.5	95	2.5	54	6	32	1.5

Technical Sheet

GLE 2.5

Balkenschuhe GLE

Referenz	Verbinder Abmessungen									
	Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
							Rund		Rund	
	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Ø5	Ø14	Ø5	Gewicht[kg]
GLE900/100/2,5	100	400	90	38.5	95	2.5	60	6	35	1.6
GLE960/100/2,5	100	430	90	38.5	95	2.5	64	8	38	1.7
GLE1020/100/2,5	100	460	90	38.5	95	2.5	70	8	41	1.8
GLE500/120/2,5	120	190	90	38.5	95	2.5	26	4	15	0.82
GLE540/120/2,5	120	210	90	38.5	95	2.5	30	4	17	0.92
GLE600/120/2.5	120	240	90	38.5	95	2.5	36	4	20	1.1
GLE660/120/2,5	120	270	90	38.5	95	2.5	40	6	23	1.1
GLE720/120/2.5	120	300	90	38.5	95	2.5	46	6	26	1.2
GLE780/120/2,5	120	330	90	38.5	95	2.5	48	6	29	1.4
GLE840/120/2,5	120	360	90	38.5	95	2.5	54	6	32	1.5
GLE900/120/2,5	120	390	90	38.5	95	2.5	60	6	35	1.6
GLE960/120/2,5	120	420	90	38.5	95	2.5	64	8	38	1.7
GLE1020/120/2,5	120	450	90	38.5	95	2.5	70	8	41	1.8
GLE500/140/2,5	140	180	90	38.5	95	2.5	26	4	15	0.82
GLE540/140/2,5	140	200	90	38.5	95	2.5	30	4	17	0.92
GLE600/140/2,5	140	230	90	38.5	95	2.5	36	4	20	0.98
GLE660/140/2,5	140	260	90	38.5	95	2.5	40	6	23	1.1
GLE720/140/2,5	140	290	90	38.5	95	2.5	46	6	26	1.2
GLE780/140/2,5	140	320	90	38.5	95	2.5	48	6	29	1.4
GLE840/140/2,5	140	350	90	38.5	95	2.5	54	6	32	1.5
GLE900/140/2,5	140	380	90	38.5	95	2.5	60	6	35	1.6
GLE960/140/2,5	140	410	90	38.5	95	2.5	64	8	38	1.7
GLE1020/140/2,5	140	440	90	38.5	95	2.5	70	8	41	1.8
GLE500/160/2,5	160	170	90	38.5	95	2.5	26	4	15	0.82
GLE540/160/2,5	160	190	90	38.5	95	2.5	30	4	17	0.92
GLE600/160/2,5	160	220	90	38.5	95	2.5	36	4	20	0.98
GLE660/160/2,5	160	250	90	38.5	95	2.5	40	6	23	1.4
GLE720/160/2,5	160	280	90	38.5	95	2.5	46	6	26	1.2
GLE780/160/2,5	160	310	90	38.5	95	2.5	48	6	29	1.4
GLE840/160/2,5	160	340	90	38.5	95	2.5	54	6	32	1.5
GLE900/160/2,5	160	370	90	38.5	95	2.5	60	6	35	1.6
GLE960/160/2,5	160	400	90	38.5	95	2.5	64	8	38	1.7
GLE1020/160/2,5	160	430	90	38.5	95	2.5	70	8	41	1.8
GLE500/180/2,5	180	160	90	38.5	95	2.5	18	4	13	0.82
GLE540/180/2,5	180	180	90	38.5	95	2.5	18	4	13	0.92
GLE600/180/2,5	180	210	90	38.5	95	2.5	24	4	16	0.98
GLE660/180/2,5	180	240	90	38.5	95	2.5	28	6	19	1.1
GLE720/180/2,5	180	270	90	38.5	95	2.5	34	6	22	1.2
GLE780/180/2,5	180	300	90	38.5	95	2.5	40	6	25	1.4
GLE840/180/2,5	180	330	90	38.5	95	2.5	46	6	28	1.5
GLE900/180/2,5	180	360	90	38.5	95	2.5	52	6	31	1.6
GLE960/180/2,5	180	390	90	38.5	95	2.5	58	6	34	1.7
GLE1020/180/2,5	180	420	90	38.5	95	2.5	62	8	37	1.8
GLE500/200/2,5	200	150	90	38.5	95	2.5	18	4	13	0.82
GLE540/200/2,5	200	170	90	38.5	95	2.5	18	4	13	0.92
GLE600/200/2,5	200	200	90	38.5	95	2.5	24	4	16	0.98
GLE660/200/2,5	200	230	90	38.5	95	2.5	28	6	19	1.1
GLE720/200/2,5	200	260	90	38.5	95	2.5	34	6	22	1.2

Technical Sheet

GLE 2.5

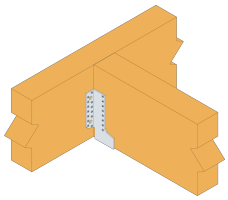
Balkenschuhe GLE

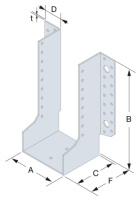
Referenz	Verbinder Abmessungen									
	Produktabmessungen[mm]						Löcher im Hauptträger		Löcher im Nebenträger	Sonstiges
							Rund		Rund	
	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Dicke[mm]	Ø5	Ø14	Ø5	Gewicht[kg]
GLE780/200/2,5	200	290	90	38.5	95	2.5	40	6	25	1.4
GLE840/200/2,5	200	320	90	38.5	95	2.5	46	6	28	1.5
GLE900/200/2,5	200	350	90	38.5	95	2.5	52	6	31	1.6
GLE960/200/2,5	200	380	90	38.5	95	2.5	58	6	34	1.7
GLE1020/200/2,5	200	410	90	38.5	95	2.5	62	8	37	1.8
GLE540/220/2,5	220	160	90	38.5	95	2.5	18	4	13	0.92
GLE600/220/2,5	220	190	90	38.5	95	2.5	24	4	16	0.98
GLE660/220/2,5	220	220	90	38.5	95	2.5	28	6	19	1.1
GLE720/220/2,5	220	250	90	38.5	95	2.5	34	6	22	1.2
GLE780/220/2,5	220	280	90	38.5	95	2.5	40	6	25	1.4
GLE840/220/2,5	220	310	90	38.5	95	2.5	46	6	28	1.5
GLE900/220/2,5	220	340	90	38.5	95	2.5	52	6	31	1.6
GLE960/220/2,5	220	370	90	38.5	95	2.5	58	6	34	1.7
GLE1020/220/2,5	220	400	90	38.5	95	2.5	62	8	37	1.8
GLE540/240/2,5	240	150	90	38.5	95	2.5	18	4	13	0.92
GLE600/240/2,5	240	180	90	38.5	95	2.5	24	4	16	0.98
GLE660/240/2,5	240	210	90	38.5	95	2.5	28	6	19	1.1
GLE720/240/2,5	240	240	90	38.5	95	2.5	34	6	22	1.2
GLE780/240/2,5	240	270	90	38.5	95	2.5	40	6	25	1.4
GLE840/240/2,5	240	300	90	38.5	95	2.5	46	6	28	1.5
GLE900/240/2,5	240	330	90	38.5	95	2.5	52	6	31	1.6
GLE960/240/2,5	240	360	90	38.5	95	2.5	58	6	34	1.7
GLE1020/240/2,5	240	390	90	38.5	95	2.5	62	8	37	1.8

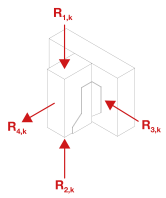
Technical Sheet

GLE 2.5
Balkenschuhe GLE

Charakteristische Tragfähigkeiten - Holz an Holz - 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
GLE440/38/2,5	20.0	12.0	-	-	-	-
GLE500/50/2,5	26.0	15.0	-	-	-	-
GLE380/64/2,5	20.0	11.0	24.1	19.8	6.1	9.8
GLE380/70/2,5	20.0	11.0	24.1	19.8	6.5	9.8
GLE440/70/2,5	20.0	12.0	26.3	19.9	6.6	7.8
GLE500/70/2,5	26.0	15.0	32.9	29.1	7.3	11.8
GLE380/76/2.5	20.0	11.0	24.1	19.8	6.9	9.8
GLE440/76/2,5	20.0	12.0	26.3	19.9	7	7.8
GLE500/76/2,5	26.0	15.0	32.9	29.1	7.8	11.8
GLE380/80/2,5	20.0	11.0	24.1	19.8	7.1	9.8
GLE440/80/2,5	20.0	12.0	26.3	19.9	7.3	7.8
GLE500/80/2,5	26.0	15.0	32.9	29.1	8.1	11.8
GLE540/80/2.5	30.0	17.0	37.2	33.5	8.5	13.7
GLE600/80/2.5	36.0	20.0	43.8	39.4	8.9	15.7
GLE660/80/2,5	40.0	23.0	50.4	45.3	9.2	17.6
GLE720/80/2,5	46.0	26.0	56.9	51.2	9.5	19.6
GLE780/80/2,5	48.0	29.0	63.5	57.2	10	21.6
GLE840/80/2,5	54.0	32.0	70.1	63.1	10.1	23.5
GLE900/80/2,5	60.0	35.0	76.7	69	10.2	27.4
GLE960/80/2,5	64.0	38.0	83.2	74.9	10.3	27.4
GLE1020/80/2,5	70.0	41.0	89.8	80.8	10.3	31.4
GLE380/90/2,5	20.0	11.0	24.1	19.8	7.6	9.8
GLE440/90/2,5	20.0	12.0	26.3	19.9	7.9	7.8
GLE500/90/2,5	26.0	15.0	32.9	29.1	8.8	11.8
GLE540/90/2.5	30.0	17.0	37.2	33.5	9.3	13.7
GLE600/90/2.5	36.0	20.0	43.8	39.4	9.8	15.7
GLE660/90/2.5	40.0	23.0	50.4	45.3	10.2	17.6
GLE720/90/2,5	46.0	26.0	56.9	51.2	10.5	19.6
GLE780/90/2,5	48.0	29.0	63.5	57.2	11.1	21.6
GLE840/90/2,5	54.0	32.0	70.1	63.1	11.3	23.5
GLE900/90/2,5	60.0	35.0	76.7	69	11.4	27.4
GLE960/90/2,5	64.0	38.0	83.2	74.9	11.5	27.4
GLE1020/90/2,5	70.0	41.0	89.8	80.8	11.6	31.4
GLE380/100/2,5	20.0	11.0	23	19.8	8.1	9.8
GLE440/100/2,5	20.0	12.0	26.3	19.9	8.4	7.8
GLE500/100/2,5	26.0	15.0	32.9	29.1	9.5	11.8
GLE540/100/2.5	30.0	17.0	37.2	33.5	10	13.7
GLE600/100/2.5	36.0	20.0	43.8	39.4	10.7	15.7

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Technical Sheet

GLE 2.5

Balkenschuhe GLE

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
GLE660/100/2,5	40.0	23.0	50.4	45.3	11.1	17.6
GLE720/100/2,5	46.0	26.0	56.9	51.2	11.5	19.6
GLE780/100/2,5	48.0	29.0	63.5	57.2	12.2	21.6
GLE840/100/2,5	54.0	32.0	70.1	63.1	12.4	23.5
GLE900/100/2,5	60.0	35.0	76.7	69	12.6	27.4
GLE960/100/2,5	64.0	38.0	83.2	74.9	12.7	27.4
GLE1020/100/2,5	70.0	41.0	89.8	80.8	12.8	31.4
GLE500/120/2,5	26.0	15.0	32.9	29.1	10.6	11.8
GLE540/120/2,5	30.0	17.0	37.2	33.5	11.3	13.7
GLE600/120/2.5	36.0	20.0	43.8	39.4	12.2	15.7
GLE660/120/2,5	40.0	23.0	50.4	45.3	12.8	17.6
GLE720/120/2.5	46.0	26.0	56.9	51.2	13.4	19.6
GLE780/120/2,5	48.0	29.0	63.5	57.2	14.3	21.6
GLE840/120/2,5	54.0	32.0	70.1	63.1	14.6	23.5
GLE900/120/2,5	60.0	35.0	76.7	69	14.8	27.4
GLE960/120/2,5	64.0	38.0	83.2	74.9	15	27.4
GLE1020/120/2,5	70.0	41.0	89.8	80.8	15.1	31.4
GLE500/140/2,5	26.0	15.0	32.9	29.1	11.4	11.8
GLE540/140/2,5	30.0	17.0	37.2	33.5	12.3	13.7
GLE600/140/2,5	36.0	20.0	43.8	39.4	13.5	15.7
GLE660/140/2,5	40.0	23.0	50.4	45.3	14.3	17.6
GLE720/140/2,5	46.0	26.0	56.9	51.2	15.1	19.6
GLE780/140/2,5	48.0	29.0	63.5	57.2	16.1	21.6
GLE840/140/2,5	54.0	32.0	70.1	63.1	16.5	23.5
GLE900/140/2,5	60.0	35.0	76.7	69	16.8	27.4
GLE960/140/2,5	64.0	38.0	83.2	74.9	17.1	27.4
GLE1020/140/2,5	70.0	41.0	89.8	80.8	17.4	31.4
GLE500/160/2,5	26.0	15.0	32.9	29.1	12.1	11.8
GLE540/160/2,5	30.0	17.0	37.2	33.5	13.2	13.7
GLE600/160/2,5	36.0	20.0	43.8	39.4	14.5	15.7
GLE660/160/2,5	40.0	23.0	50.4	45.3	15.6	17.6
GLE720/160/2,5	46.0	26.0	56.9	51.2	16.5	19.6
GLE780/160/2,5	48.0	29.0	63.5	57.2	17.7	21.6
GLE840/160/2,5	54.0	32.0	70.1	63.1	18.3	23.5
GLE900/160/2,5	60.0	35.0	76.7	69	18.7	27.4
GLE960/160/2,5	64.0	38.0	83.2	74.9	19.1	27.4
GLE1020/160/2,5	70.0	41.0	89.8	80.8	19.5	31.4
GLE500/180/2,5	18.0	13.0	26	16.9	11.4	7.8
GLE540/180/2,5	18.0	13.0	28.5	16.9	11.3	7.8
GLE600/180/2,5	24.0	16.0	35	25.9	13.2	9.8
GLE660/180/2,5	28.0	19.0	41.6	34.3	14.8	11.8
GLE720/180/2,5	34.0	22.0	48.2	43.4	16.2	13.7
GLE780/180/2,5	40.0	25.0	54.8	49.3	17.3	17.6
GLE840/180/2,5	46.0	28.0	61.3	55.2	18.3	19.6

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Technical Sheet

GLE 2.5

Balkenschuhe GLE

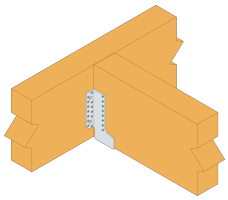
Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Vollausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GLE900/180/2,5	52.0	31.0	67.9	61.1	19	23.5
GLE960/180/2,5	58.0	34.0	74.5	67	19.7	25.5
GLE1020/180/2,5	62.0	37.0	81	72.9	20.2	27.4
GLE500/200/2,5	18.0	13.0	24.1	16.9	11.7	7.8
GLE540/200/2,5	18.0	13.0	27.7	16.9	11.6	7.8
GLE600/200/2,5	24.0	16.0	35	25.9	13.7	9.8
GLE660/200/2,5	28.0	19.0	41.6	34.3	15.5	11.8
GLE720/200/2,5	34.0	22.0	48.2	43.4	17.1	13.7
GLE780/200/2,5	40.0	25.0	54.8	49.3	18.3	17.6
GLE840/200/2,5	46.0	28.0	61.3	55.2	19.4	19.6
GLE900/200/2,5	52.0	31.0	67.9	61.1	20.3	23.5
GLE960/200/2,5	58.0	34.0	74.5	67	21.2	25.5
GLE1020/200/2,5	62.0	37.0	81	72.9	21.8	27.4
GLE540/220/2,5	18.0	13.0	26	16.9	11.8	7.8
GLE600/220/2,5	24.0	16.0	35	25.9	14	9.8
GLE660/220/2,5	28.0	19.0	41.6	34.3	16	11.8
GLE720/220/2,5	34.0	22.0	48.2	43.4	17.7	13.7
GLE780/220/2,5	40.0	25.0	54.8	49.3	19.2	17.6
GLE840/220/2,5	46.0	28.0	61.3	55.2	20.5	19.6
GLE900/220/2,5	52.0	31.0	67.9	61.1	21.5	23.5
GLE960/220/2,5	58.0	34.0	74.5	67	22.5	25.5
GLE1020/220/2,5	62.0	37.0	81	72.9	23.3	27.4
GLE540/240/2,5	18.0	13.0	24.1	16.9	12	7.8
GLE600/240/2,5	24.0	16.0	34.7	25.9	14.3	9.8
GLE660/240/2,5	28.0	19.0	41.6	34.3	16.4	11.8
GLE720/240/2,5	34.0	22.0	48.2	43.4	18.3	13.7
GLE780/240/2,5	40.0	25.0	54.8	49.3	19.9	17.6
GLE840/240/2,5	46.0	28.0	61.3	55.2	21.4	19.6
GLE900/240/2,5	52.0	31.0	67.9	61.1	22.6	23.5
GLE960/240/2,5	58.0	34.0	74.5	67	23.7	25.5
GLE1020/240/2,5	62.0	37.0	81	72.9	24.6	27.4

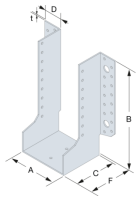
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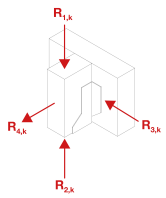
Technical Sheet

GLE 2.5
Balkenschuhe GLE

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
GLE440/38/2,5	8.0	6.0	-	-	-	-
GLE500/50/2,5	12.0	8.0	-	-	-	-
GLE380/64/2,5	10.0	6.0	13.1	10.7	3.3	9.8
GLE380/70/2,5	10.0	6.0	13.1	10.7	3.5	9.8
GLE440/70/2,5	8.0	6.0	13.1	6.2	3.7	7.8
GLE500/70/2,5	12.0	8.0	17.5	13.6	3.9	11.8
GLE380/76/2.5	10.0	6.0	13.1	10.7	3.7	9.8
GLE440/76/2,5	8.0	6.0	13.1	6.2	3.9	7.8
GLE500/76/2,5	12.0	8.0	17.5	13.6	4.1	11.8
GLE380/80/2,5	10.0	6.0	13.1	10.7	3.8	9.8
GLE440/80/2,5	8.0	6.0	13.1	6.2	4	7.8
GLE500/80/2,5	12.0	8.0	17.5	13.6	4.3	11.8
GLE540/80/2.5	14.0	9.0	19.7	16.9	4.5	13.7
GLE600/80/2.5	16.0	10.0	21.9	19.7	4.5	15.7
GLE660/80/2,5	18.0	12.0	26.3	23.7	4.8	17.6
GLE720/80/2,5	20.0	14.0	30.7	27.6	5.2	19.6
GLE780/80/2,5	22.0	15.0	32.9	29.6	5.2	21.6
GLE840/80/2,5	24.0	16.0	35	31.5	5.2	23.5
GLE900/80/2,5	28.0	18.0	39.4	35.5	5.3	27.4
GLE960/80/2,5	28.0	20.0	43.8	39.4	5.5	27.4
GLE1020/80/2,5	32.0	21.0	46	41.4	5.3	31.4
GLE380/90/2,5	10.0	6.0	12.5	10.7	4.1	9.8
GLE440/90/2,5	8.0	6.0	13.1	6.2	4.3	7.8
GLE500/90/2,5	12.0	8.0	17.5	13.6	4.7	11.8
GLE540/90/2.5	14.0	9.0	19.7	16.9	4.9	13.7
GLE600/90/2.5	16.0	10.0	21.9	19.7	5	15.7
GLE660/90/2.5	18.0	12.0	26.3	23.7	5.3	17.6
GLE720/90/2,5	20.0	14.0	30.7	27.6	5.8	19.6
GLE780/90/2,5	22.0	15.0	32.9	29.6	5.8	21.6
GLE840/90/2,5	24.0	16.0	35	31.5	5.8	23.5
GLE900/90/2,5	28.0	18.0	39.4	35.5	5.9	27.4
GLE960/90/2,5	28.0	20.0	43.8	39.4	6.1	27.4
GLE1020/90/2,5	32.0	21.0	46	41.4	5.9	31.4
GLE380/100/2,5	10.0	6.0	11.9	10.7	4.4	9.8
GLE440/100/2,5	8.0	6.0	13.1	6.2	4.5	7.8
GLE500/100/2,5	12.0	8.0	17.5	13.6	5.1	11.8
GLE540/100/2.5	14.0	9.0	19.7	16.9	5.3	13.7
GLE600/100/2.5	16.0	10.0	21.9	19.7	5.4	15.7

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Technical Sheet

GLE 2.5

Balkenschuhe GLE

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
GLE660/100/2,5	18.0	12.0	26.3	23.7	5.8	17.6
GLE720/100/2,5	20.0	14.0	30.7	27.6	6.3	19.6
GLE780/100/2,5	22.0	15.0	32.9	29.6	6.4	21.6
GLE840/100/2,5	24.0	16.0	35	31.5	6.3	23.5
GLE900/100/2,5	28.0	18.0	39.4	35.5	6.5	27.4
GLE960/100/2,5	28.0	20.0	43.8	39.4	6.8	27.4
GLE1020/100/2,5	32.0	21.0	46	41.4	6.6	31.4
GLE500/120/2,5	12.0	8.0	17.5	13.6	5.6	11.8
GLE540/120/2,5	14.0	9.0	19.7	16.9	6	13.7
GLE600/120/2.5	16.0	10.0	21.9	19.7	6.2	15.7
GLE660/120/2,5	18.0	12.0	26.3	23.7	6.7	17.6
GLE720/120/2.5	20.0	14.0	30.7	27.6	7.3	19.6
GLE780/120/2,5	22.0	15.0	32.9	29.6	7.4	21.6
GLE840/120/2,5	24.0	16.0	35	31.5	7.4	23.5
GLE900/120/2,5	28.0	18.0	39.4	35.5	7.6	27.4
GLE960/120/2,5	28.0	20.0	43.8	39.4	8	27.4
GLE1020/120/2,5	32.0	21.0	46	41.4	7.8	31.4
GLE500/140/2,5	12.0	8.0	17.3	13.6	6.1	11.8
GLE540/140/2,5	14.0	9.0	19.7	16.9	6.5	13.7
GLE600/140/2,5	16.0	10.0	21.9	19.7	6.8	15.7
GLE660/140/2,5	18.0	12.0	26.3	23.7	7.5	17.6
GLE720/140/2,5	20.0	14.0	30.7	27.6	8.2	19.6
GLE780/140/2,5	22.0	15.0	32.9	29.6	8.4	21.6
GLE840/140/2,5	24.0	16.0	35	31.5	8.4	23.5
GLE900/140/2,5	28.0	18.0	39.4	35.5	8.7	27.4
GLE960/140/2,5	28.0	20.0	43.8	39.4	9.1	27.4
GLE1020/140/2,5	32.0	21.0	46	41.4	8.9	31.4
GLE500/160/2,5	12.0	8.0	16.1	13.6	6.5	11.8
GLE540/160/2,5	14.0	9.0	19.7	16.9	7	13.7
GLE600/160/2,5	16.0	10.0	21.9	19.7	7.3	15.7
GLE660/160/2,5	18.0	12.0	26.3	23.7	8.1	17.6
GLE720/160/2,5	20.0	14.0	30.7	27.6	9	19.6
GLE780/160/2,5	22.0	15.0	32.9	29.6	9.2	21.6
GLE840/160/2,5	24.0	16.0	35	31.5	9.3	23.5
GLE900/160/2,5	28.0	18.0	39.4	35.5	9.7	27.4
GLE960/160/2,5	28.0	20.0	43.8	39.4	10.2	27.4
GLE1020/160/2,5	32.0	21.0	46	41.4	10	31.4
GLE500/180/2,5	8.0	7.0	12.4	7.7	6.2	7.8
GLE540/180/2,5	8.0	7.0	13.6	7.7	6.1	7.8
GLE600/180/2,5	10.0	8.0	17.5	10.7	6.7	9.8
GLE660/180/2,5	12.0	10.0	21.3	15.1	7.8	11.8
GLE720/180/2,5	14.0	12.0	25.8	18.4	9	13.7
GLE780/180/2,5	18.0	13.0	28.5	25.6	9	17.6
GLE840/180/2,5	20.0	14.0	30.7	27.6	9.2	19.6

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Technical Sheet

GLE 2.5

Balkenschuhe GLE

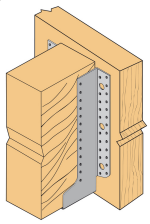
Referenz	Balkenschuh-Tragfähigkeit					
	Charakter. Tragfähigkeit - Holz an Holz - Teilausnagelung					
	Verbindungsmittel		Charakter. Tragfähigkeiten - Nadelholz C24[kN]			
	Hauptträger	Nebenträger	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	R4,k
	Anzahl	Anzahl	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50	mit CNA 4.0x50
GLE900/180/2,5	24.0	16.0	35	31.5	9.8	23.5
GLE960/180/2,5	26.0	18.0	39.4	35.5	10.6	25.5
GLE1020/180/2,5	28.0	19.0	41.6	37.4	10.4	27.4
GLE500/200/2,5	8.0	7.0	11.6	7.7	6.3	7.8
GLE540/200/2,5	8.0	7.0	13.1	7.7	6.3	7.8
GLE600/200/2,5	10.0	8.0	17.2	10.7	6.9	9.8
GLE660/200/2,5	12.0	10.0	20.7	15.1	8.2	11.8
GLE720/200/2,5	14.0	12.0	25.2	18.4	9.4	13.7
GLE780/200/2,5	18.0	13.0	28.5	25.6	9.6	17.6
GLE840/200/2,5	20.0	14.0	30.7	27.6	9.8	19.6
GLE900/200/2,5	24.0	16.0	35	31.5	10.5	23.5
GLE960/200/2,5	26.0	18.0	39.4	35.5	11.3	25.5
GLE1020/200/2,5	28.0	19.0	41.6	37.4	11.2	27.4
GLE540/220/2,5	8.0	7.0	12.4	7.7	6.4	7.8
GLE600/220/2,5	10.0	8.0	16.5	10.7	7.1	9.8
GLE660/220/2,5	12.0	10.0	20	15.1	8.4	11.8
GLE720/220/2,5	14.0	12.0	24.6	18.4	9.8	13.7
GLE780/220/2,5	18.0	13.0	28.5	25.6	10	17.6
GLE840/220/2,5	20.0	14.0	30.7	27.6	10.3	19.6
GLE900/220/2,5	24.0	16.0	35	31.5	11.1	23.5
GLE960/220/2,5	26.0	18.0	39.4	35.5	12.1	25.5
GLE1020/220/2,5	28.0	19.0	41.6	37.4	12	27.4
GLE540/240/2,5	8.0	7.0	11.6	7.7	6.5	7.8
GLE600/240/2,5	10.0	8.0	15.8	10.7	7.2	9.8
GLE660/240/2,5	12.0	10.0	19.2	15.1	8.7	11.8
GLE720/240/2,5	14.0	12.0	23.9	18.4	10.1	13.7
GLE780/240/2,5	18.0	13.0	28.5	25.6	10.4	17.6
GLE840/240/2,5	20.0	14.0	30.7	27.6	10.8	19.6
GLE900/240/2,5	24.0	16.0	35	31.5	11.7	23.5
GLE960/240/2,5	26.0	18.0	39.4	35.5	12.7	25.5
GLE1020/240/2,5	28.0	19.0	41.6	37.4	12.6	27.4

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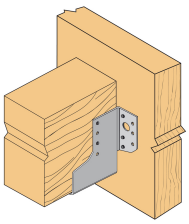
Installation

Befestigungsmittel

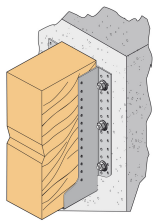
Befestigungsmittel
Die angegebenen Tragfähigkeiten des Verbinders sind gültig bei der Verwendung von CE gekennzeichneten Verbindungsmitteln nach ETA-04/0013.
<u>Nebenträger:</u>
CNA Kammnägel Ø 4.0x50 mm.
CNA Kammnägel Ø 4.0x35 mm bei einer Breite kleiner 64 mm.
CSA Schrauben Ø 5.0x40 mm.
CSA Schrauben Ø 5.0x35 mm bei einer Breite kleiner 60 mm.
<u>Hauptträger:</u>
Holz Untergrund:
CNA Kammnägel Ø 4.0x50 mm.
CSA Schrauben Ø 5.0x40 mm.
Stahl Untergrund:
Bolzen Ø 12 mm (Das Lochspiel ist auf maximal 2mm begrenzt).
Beton Untergrund:
Mechanicher Anker: FM-753 CRACK 3DG M12x110
Chemischer Anker: AT-HP Mörtel + LMAS M12-150/35 Gewindestange.
Mauerwerk Untergrund:
Chemischer Anker: AT-HP oder POLY-GP Mörtel + LMAS M12-150/35 Gewindestange + SH M16-130 Sieb.



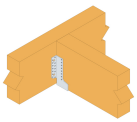
Vollausnagelung



Teilausnagelung



Anschluss an Beton



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