

GBE

Joist hanger for glulam - external flanges

Joist Hangers especially developed for glulam application. It can be installed on timber or concrete support with bolts only and can be manufactured for large dimension of timber joist.

Features

Materiál

- S250GD + Z275
- 4mm thick

Vorteile

- Fixing only with bolts.
- Large range of possibilities

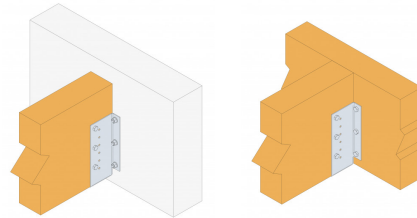
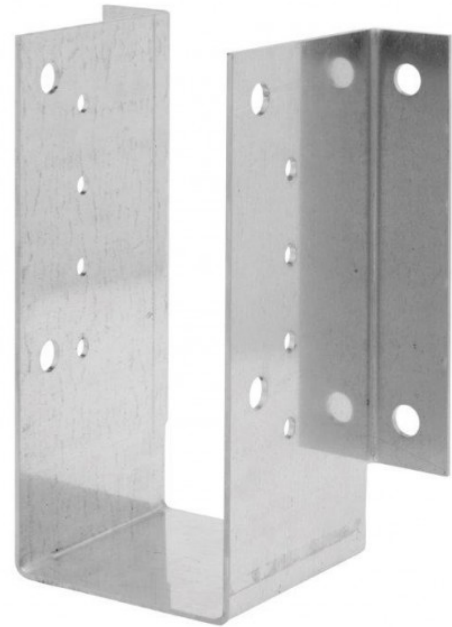
Applications

Support

- Geringe Achs- und Randabstände.
- Rationelle und wirtschaftliche Montage: vormontierte Mutter und Unterlegscheibe.
- Verringerter Bohraufwand: Ø-Bohren = Ø-Gewinde.
- Angeformter Schlagzapfen am Dübelkopf verhindert Beschädigung des Gewindes bei der Montage.

Anwendungsbereich

- Solid timber Joist
- Glulam Joist
-

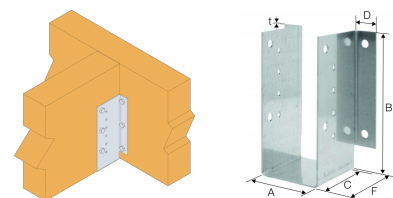


GBE

Joist hanger for glulam - external flanges

Technical Data

GBE Joist hanger for glulam - external flanges



Rozměry a typické hodnoty

Art. nr.	Rozměry a typické hodnoty [mm]									Hmotnost [kg]	
	A	B	C	D	F	t	Otvory hlavy		Otvory trámu		
							Ø18	Ø11	Ø18		Ø18
GBE600/90/4	90	255	145	54	155	4	4	6	4	3.3	
GBE750/90/4		330	145	54	155	4	4	8	4	4.3	
GBE900/90/4		405	145	54	155	4	6	12	6	5.2	
GBE1050/90/4		480	145	54	155	4	6	14	6	6.1	
GBE1200/90/4		555	145	54	155	4	8	18	8	7	
GBE600/100/4	100	250	145	54	155	4	4	6	4	3.3	
GBE750/100/4		325	145	54	155	4	4	8	4	4.3	
GBE900/100/4		400	145	54	155	4	6	12	6	5.2	
GBE1050/100/4		475	145	54	155	4	6	14	6	6.1	
GBE1200/100/4		550	145	54	155	4	8	18	8	7	
GBE600/104/4	104	248	145	54	155	4	4	6	4	3.3	
GBE750/104/4		323	145	54	155	4	4	8	4	4.3	
GBE900/104/4		398	145	54	155	4	6	12	6	5.2	
GBE1050/104/4		473	145	54	155	4	6	14	6	6.1	
GBE1200/104/4		548	145	54	155	4	8	18	8	7	
GBE600/114/4	114	243	145	54	155	4	4	6	4	3.3	
GBE750/114/4		318	145	54	155	4	4	8	4	4.3	
GBE900/114/4		393	145	54	155	4	6	12	6	5.2	
GBE1050/114/4		468	145	54	155	4	6	14	6	6.1	
GBE1200/114/4		543	145	54	155	4	8	18	8	7	
GBE600/120/4	120	240	145	54	155	4	4	6	4	3.3	
GBE750/120/4		315	145	54	155	4	4	8	4	4.3	
GBE900/120/4		390	145	54	155	4	6	12	6	5.2	
GBE1050/120/4		465	145	54	155	4	6	14	6	6.1	
GBE1200/120/4		540	145	54	155	4	8	18	8	7	
GBE600/138/4	138	231	145	54	155	4	4	6	4	3.3	
GBE750/138/4		306	145	54	155	4	4	8	4	4.3	
GBE900/138/4		381	145	54	155	4	6	12	6	5.2	
GBE1050/138/4		456	145	54	155	4	6	14	6	6.1	
GBE1200/138/4		531	145	54	155	4	8	18	8	7	
GBE1350/138/4		606	145	54	155	4	8	20	8	8	
GBE1500/138/4	681	145	54	155	4	10	24	10	8.9		
GBE600/140/4	140	230	145	54	155	4	4	6	4	3.3	
GBE750/140/4		305	145	54	155	4	4	8	4	4.3	
GBE900/140/4		380	145	54	155	4	6	12	6	5.2	
GBE1050/140/4		455	145	54	155	4	6	14	6	6.1	
GBE1200/140/4		530	145	54	155	4	8	18	8	7	
GBE1350/140/4		605	145	54	155	4	8	20	8	8	
GBE1500/140/4		680	145	54	155	4	10	24	10	8.9	
GBE600/160/4	160	220	145	54	155	4	4	6	4	3.3	
GBE750/160/4		295	145	54	155	4	4	8	4	4.3	
GBE900/160/4		370	145	54	155	4	6	12	6	5.2	
GBE1050/160/4		445	145	54	155	4	6	14	6	6.1	

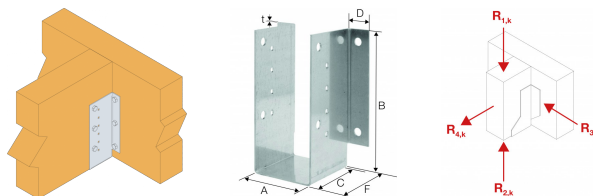
GBE

Joist hanger for glulam - external flanges

Art. nr.	A	Rozměry a typické hodnoty [mm]							Hmotnost [kg]		
		B	C	D	F	t	Otvory hlavy	Otvory trámu			
							Ø18	Ø11		Ø18	
GBE1200/160/4		520	145	54	155	4	8	18	8	7	
GBE1350/160/4		595	145	54	155	4	8	20	8	8	
GBE1500/160/4		670	145	54	155	4	10	24	10	8.9	
GBE600/162/4	162	219	145	54	155	4	4	6	4	3.3	
GBE750/162/4		294	145	54	155	4	4	8	4	4.3	
GBE900/162/4		369	145	54	155	4	6	12	6	5.2	
GBE1050/162/4		444	145	54	155	4	6	14	6	6.1	
GBE1200/162/4		519	145	54	155	4	8	18	8	7	
GBE1350/162/4		594	145	54	155	4	8	20	8	8	
GBE1500/162/4		669	145	54	155	4	10	24	10	8.9	
GBE600/180/4		180	210	145	54	155	4	4	6	4	3.3
GBE750/180/4			285	145	54	155	4	4	8	4	4.3
GBE900/180/4	360		145	54	155	4	6	12	6	5.2	
GBE1050/180/4	435		145	54	155	4	6	14	6	6.1	
GBE1200/180/4	510		145	54	155	4	8	18	8	7	
GBE1350/180/4	585		145	54	155	4	8	20	8	8	
GBE1500/180/4	660		145	54	155	4	10	24	10	8.9	
GBE600/186/4	186	207	145	54	155	4	4	6	4	3.3	
GBE750/186/4		282	145	54	155	4	4	8	4	4.3	
GBE900/186/4		357	145	54	155	4	6	12	6	5.2	
GBE1050/186/4		432	145	54	155	4	6	14	6	6.1	
GBE1200/186/4		507	145	54	155	4	8	18	8	7	
GBE1350/186/4		582	145	54	155	4	8	20	8	8	
GBE1500/186/4		657	145	54	155	4	10	24	10	8.9	
GBE600/200/4	200	200	145	54	155	4	4	6	4	3.3	
GBE750/200/4		275	145	54	155	4	4	8	4	4.3	
GBE900/200/4		350	145	54	155	4	6	12	6	5.2	
GBE1050/200/4		425	145	54	155	4	6	14	6	6.1	
GBE1200/200/4		500	145	54	155	4	8	18	8	7	
GBE1350/200/4		575	145	54	155	4	8	20	8	8	
GBE1500/200/4		650	145	54	155	4	10	24	10	8.9	
GBE600/210/4	210	195	145	54	155	4	4	6	4	3.3	
GBE750/210/4		270	145	54	155	4	4	8	4	4.3	
GBE900/210/4		345	145	54	155	4	6	12	6	5.2	
GBE1050/210/4		420	145	54	155	4	6	14	6	6.1	
GBE1200/210/4		495	145	54	155	4	8	18	8	7	
GBE1350/210/4		570	145	54	155	4	8	20	8	8	
GBE1500/210/4		645	145	54	155	4	10	24	10	8.9	
GBE600/220/4	220	190	145	54	155	4	4	6	4	3.3	
GBE750/220/4		265	145	54	155	4	4	8	4	4.3	
GBE900/220/4		340	145	54	155	4	6	12	6	5.2	
GBE1050/220/4		415	145	54	155	4	6	14	6	6.1	
GBE1200/220/4		490	145	54	155	4	8	18	8	7	
GBE1350/220/4		565	145	54	155	4	8	20	8	8	
GBE1500/220/4		640	145	54	155	4	10	24	10	8.9	

GBE Joist hanger for glulam - external flanges

Nosnosti - dřevo na dřevo



Art. nr.	Characteristic capacities - Timber to timber A	Characteristic capacity - Timber GL24 [kN]			
		$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	$R_{4,k}$
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE600/90/4	90	34.5	19.3	12.9	25.6
GBE750/90/4		38.2	29.4	12.9	36.3
GBE900/90/4		69.6	43.5	12.9	47
GBE1050/90/4		69.6	49.8	12.9	57.7
GBE1200/90/4		98.8	67.3	12.9	68.4
GBE600/100/4	100	34.5	19.3	12.9	25.6
GBE750/100/4		38.2	30.8	12.9	36.3
GBE900/100/4		69.6	45.4	12.9	47
GBE1050/100/4		69.6	53.7	12.9	57.7
GBE1200/100/4		103.7	72.8	12.9	68.4
GBE600/104/4	104	34.5	19.3	12.9	25.6
GBE750/104/4		38.2	30.8	12.9	36.3
GBE900/104/4		69.6	45.4	12.9	47
GBE1050/104/4		69.6	53.7	12.9	57.7
GBE1200/104/4		103.7	72.8	12.9	68.4
GBE600/114/4	114	34.5	19.3	12.9	25.6
GBE750/114/4		38.2	30.8	12.9	36.3
GBE900/114/4		69.6	45.4	12.9	47
GBE1050/114/4		69.6	53.7	12.9	57.7
GBE1200/114/4		103.7	72.8	12.9	68.4
GBE600/120/4	120	34.5	19.3	12.9	25.6
GBE750/120/4		38.2	30.8	12.9	36.3
GBE900/120/4		69.6	45.4	12.9	47
GBE1050/120/4		69.6	53.7	12.9	57.7
GBE1200/120/4		103.7	72.8	12.9	68.4
GBE600/138/4	138	34.5	19.3	12.9	25.6
GBE750/138/4		38.2	30.8	12.9	36.3
GBE900/138/4		69.6	45.4	12.9	47
GBE1050/138/4		69.6	53.7	12.9	57.7
GBE1200/138/4		103.7	72.8	12.9	68.4
GBE1350/138/4		103.7	79.4	12.9	79.1
GBE1500/138/4		129.6	101.1	12.9	89.9
GBE600/140/4	140	34.5	19.3	12.9	25.6
GBE750/140/4		38.2	30.8	12.9	36.3
GBE900/140/4		69.6	45.4	12.9	47
GBE1050/140/4		69.6	53.7	12.9	57.7
GBE1200/140/4		103.7	72.8	12.9	68.4
GBE1350/140/4		103.7	79.4	12.9	79.1

The references presented in this table are only example, other dimensions can be manufactured and justify.
Bolt used in this case are Ø16 class 4.6 and 5.8;
Header is 210mm thick

Technický list

SIMPSON

Strong-Tie

GBE

Joist hanger for glulam - external flanges

Art. nr.	Characteristic capacities - Timber to timber A	Characteristic capacity - Timber GL24 [kN]			
		R _{1,k}	R _{2,k}	R _{3,k}	R _{4,k}
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE1500/140/4		129.6	101.1	12.9	89.9
GBE600/160/4	160	34.5	19.3	12.9	25.6
GBE750/160/4		38.2	30.8	12.9	36.3
GBE900/160/4		69.6	45.4	12.9	47
GBE1050/160/4		69.6	53.7	12.9	57.7
GBE1200/160/4		103.7	72.8	12.9	68.4
GBE1350/160/4		103.7	79.4	12.9	79.1
GBE1500/160/4		129.6	101.1	12.9	89.9
GBE600/162/4		162	34.5	19.3	12.9
GBE750/162/4	38.2		30.8	12.9	36.3
GBE900/162/4	69.6		45.4	12.9	47
GBE1050/162/4	69.6		53.7	12.9	57.7
GBE1200/162/4	103.7		72.8	12.9	68.4
GBE1350/162/4	103.7		79.4	12.9	79.1
GBE1500/162/4	129.6		101.1	12.9	89.9
GBE600/180/4	180		34.5	19.3	12.9
GBE750/180/4		38.2	30.8	12.9	36.3
GBE900/180/4		69.6	45.4	12.9	47
GBE1050/180/4		69.6	53.7	12.9	57.7
GBE1200/180/4		103.7	72.8	12.9	68.4
GBE1350/180/4		103.7	79.4	12.9	79.1
GBE1500/180/4		129.6	101.1	12.9	89.9
GBE600/186/4		186	34.5	19.3	12.9
GBE750/186/4	38.2		30.8	12.9	36.3
GBE900/186/4	69.6		45.4	12.9	47
GBE1050/186/4	69.6		53.7	12.9	57.7
GBE1200/186/4	103.7		72.8	12.9	68.4
GBE1350/186/4	103.7		79.4	12.9	79.1
GBE1500/186/4	129.6		101.1	12.9	89.9
GBE600/200/4	200		34.5	19.3	12.9
GBE750/200/4		38.2	30.8	12.9	36.3
GBE900/200/4		69.6	45.4	12.9	47
GBE1050/200/4		69.6	53.7	12.9	57.7
GBE1200/200/4		103.7	72.8	12.9	68.4
GBE1350/200/4		103.7	79.4	12.9	79.1
GBE1500/200/4		129.6	101.1	12.9	89.9
GBE600/210/4		210	34.5	19.3	12.9
GBE750/210/4	38.2		30.8	12.9	36.3
GBE900/210/4	69.6		45.4	12.9	47
GBE1050/210/4	69.6		53.7	12.9	57.7
GBE1200/210/4	103.7		72.8	12.9	68.4
GBE1350/210/4	103.7		79.4	12.9	79.1
GBE1500/210/4	129.6		101.1	12.9	89.9
GBE600/220/4	220		34.5	19.3	12.9
GBE750/220/4		38.2	30.8	12.9	36.3

The references presented in this table are only example, other dimensions can be manufactured and justify.
 Bolt used in this case are Ø16 class 4.6 and 5.8;
 Header is 210mm thick

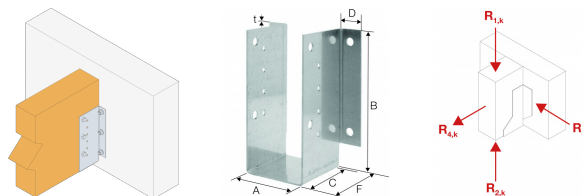
GBE
Joist hanger for glulam - external flanges

Art. nr.	Characteristic capacities - Timber to timber A	Characteristic capacity - Timber GL24 [kN]			
		R _{1,k}	R _{2,k}	R _{3,k}	R _{4,k}
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE900/220/4		69.6	45.4	12.9	47
GBE1050/220/4		69.6	53.7	12.9	57.7
GBE1200/220/4		103.7	72.8	12.9	68.4
GBE1350/220/4		103.7	79.4	12.9	79.1
GBE1500/220/4		129.6	101.1	12.9	89.9

The references presented in this table are only example, other dimensions can be manufactured and justify.
 Bolt used in this case are Ø16 class 4.6 and 5.8;
 Header is 210mm thick

GBE Joist hanger for glulam - external flanges

Nosnosti - dřevo na beton



Art. nr.	A	Characteristic capacity - Timber GL24 [kN]			
		$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	$R_{4,k}$
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE600/90/4	90	34.5	19.3	12.9	25.6
GBE750/90/4		58	29.4	12.9	36.3
GBE900/90/4		75	43.5	12.9	47
GBE1050/90/4		81.3	49.8	12.9	57.7
GBE1200/90/4		98.8	67.3	12.9	68.4
GBE600/100/4	100	34.5	19.3	12.9	25.6
GBE750/100/4		58	30.8	12.9	36.3
GBE900/100/4		76.9	45.4	12.9	47
GBE1050/100/4		85.2	53.7	12.9	57.7
GBE1200/100/4		104.3	72.8	12.9	68.4
GBE600/104/4	104	34.5	19.3	12.9	25.6
GBE750/104/4		58	30.8	12.9	36.3
GBE900/104/4		76.9	45.4	12.9	47
GBE1050/104/4		85.2	53.7	12.9	57.7
GBE1200/104/4		104.3	72.8	12.9	68.4
GBE600/114/4	114	34.5	19.3	12.9	25.6
GBE750/114/4		58	30.8	12.9	36.3
GBE900/114/4		76.9	45.4	12.9	47
GBE1050/114/4		85.2	53.7	12.9	57.7
GBE1200/114/4		104.3	72.8	12.9	68.4
GBE600/120/4	120	34.5	19.3	12.9	25.6
GBE750/120/4		58	30.8	12.9	36.3
GBE900/120/4		76.9	45.4	12.9	47
GBE1050/120/4		85.2	53.7	12.9	57.7
GBE1200/120/4		104.3	72.8	12.9	68.4
GBE600/138/4	138	34.5	19.3	12.9	25.6
GBE750/138/4		58	30.8	12.9	36.3
GBE900/138/4		76.9	45.4	12.9	47
GBE1050/138/4		85.2	53.7	12.9	57.7
GBE1200/138/4		104.3	72.8	12.9	68.4
GBE1350/138/4		110.9	79.4	12.9	79.1
GBE1500/138/4	132.6	101.1	12.9	89.9	
GBE600/140/4	140	34.5	19.3	12.9	25.6
GBE750/140/4		58	30.8	12.9	36.3

The references presented in this table are only example, other dimensions can be manufactured and justify.

** Bolt used in this case are Ø16 class 4.6 and 5.8.

The joist is made out of glulam GL24

* Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. The values in this table are given for an installation in the middle of a concrete slab. In other installation condition (close to the edge,...), the designer must check the anchor separately (Our free software Anchor Designer is available for download on our website)

GBE

Joist hanger for glulam - external flanges

Art. nr.	A	Characteristic capacity - Timber GL24 [kN]			
		R _{1,k}	R _{2,k}	R _{3,k}	R _{4,k}
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE900/140/4		76.9	45.4	12.9	47
GBE1050/140/4		85.2	53.7	12.9	57.7
GBE1200/140/4		104.3	72.8	12.9	68.4
GBE1350/140/4		110.9	79.4	12.9	79.1
GBE1500/140/4		132.6	101.1	12.9	89.9
GBE600/160/4	160	34.5	19.3	12.9	25.6
GBE750/160/4		58	30.8	12.9	36.3
GBE900/160/4		76.9	45.4	12.9	47
GBE1050/160/4		85.2	53.7	12.9	57.7
GBE1200/160/4		104.3	72.8	12.9	68.4
GBE1350/160/4	162	110.9	79.4	12.9	79.1
GBE1500/160/4		132.6	101.1	12.9	89.9
GBE600/162/4		34.5	19.3	12.9	25.6
GBE750/162/4		58	30.8	12.9	36.3
GBE900/162/4		76.9	45.4	12.9	47
GBE1050/162/4	180	85.2	53.7	12.9	57.7
GBE1200/162/4		104.3	72.8	12.9	68.4
GBE1350/162/4		110.9	79.4	12.9	79.1
GBE1500/162/4		132.6	101.1	12.9	89.9
GBE600/180/4		34.5	19.3	12.9	25.6
GBE750/180/4	186	58	30.8	12.9	36.3
GBE900/180/4		76.9	45.4	12.9	47
GBE1050/180/4		85.2	53.7	12.9	57.7
GBE1200/180/4		104.3	72.8	12.9	68.4
GBE1350/180/4		110.9	79.4	12.9	79.1
GBE1500/180/4	200	132.6	101.1	12.9	89.9
GBE600/186/4		34.5	19.3	12.9	25.6
GBE750/186/4		58	30.8	12.9	36.3
GBE900/186/4		76.9	45.4	12.9	47
GBE1050/186/4		85.2	53.7	12.9	57.7
GBE1200/186/4	200	104.3	72.8	12.9	68.4
GBE1350/186/4		110.9	79.4	12.9	79.1
GBE1500/186/4		132.6	101.1	12.9	89.9
GBE600/200/4		34.5	19.3	12.9	25.6
GBE750/200/4		58	30.8	12.9	36.3
GBE900/200/4	200	76.9	45.4	12.9	47
GBE1050/200/4		85.2	53.7	12.9	57.7
GBE1200/200/4		104.3	72.8	12.9	68.4
GBE1350/200/4		110.9	79.4	12.9	79.1
GBE1500/200/4		132.6	101.1	12.9	89.9

The references presented in this table are only example, other dimensions can be manufactured and justify.

** Bolt used in this case are Ø16 class 4.6 and 5.8.

The joist is made out of glulam GL24

* Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. The values in this table are given for an installation in the middle of a concrete slab. In other installation condition (close to the edge,...), the designer must check the anchor separately (Our free software Anchor Designer is available for download on our website)

GBE

Joist hanger for glulam - external flanges



Art. nr.	A	Characteristic capacity - Timber GL24 [kN]			
		R _{1,k}	R _{2,k}	R _{3,k}	R _{4,k}
		Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6	Bolt Ø16 - Class 4.6
GBE600/210/4	210	34.5	19.3	12.9	25.6
GBE750/210/4		58	30.8	12.9	36.3
GBE900/210/4		76.9	45.4	12.9	47
GBE1050/210/4		85.2	53.7	12.9	57.7
GBE1200/210/4		104.3	72.8	12.9	68.4
GBE1350/210/4		110.9	79.4	12.9	79.1
GBE1500/210/4		132.6	101.1	12.9	89.9
GBE600/220/4	220	34.5	19.3	12.9	25.6
GBE750/220/4		58	30.8	12.9	36.3
GBE900/220/4		76.9	45.4	12.9	47
GBE1050/220/4		85.2	53.7	12.9	57.7
GBE1200/220/4		104.3	72.8	12.9	68.4
GBE1350/220/4		110.9	79.4	12.9	79.1
GBE1500/220/4		132.6	101.1	12.9	89.9

The references presented in this table are only example, other dimensions can be manufactured and justify.

** Bolt used in this case are Ø16 class 4.6 and 5.8.

The joist is made out of glulam GL24

* Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. The values in this table are given for an installation in the middle of a concrete slab. In other installation condition (close to the edge,...), the designer must check the anchor separately (Our free software Anchor Designer is available for download on our website)

GBE

Joist hanger for glulam - external flanges

Installation

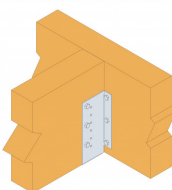
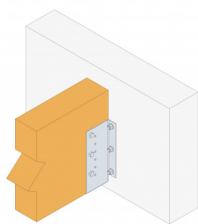
Befestigung

On Timber:

- On the header and on the joist: Bolt Ø16

On concrete:

- On the header: Anchor Ø16 such as WA M16-110/5
- On the joist: Bolt Ø16



GBE

Joist hanger for glulam - external flanges