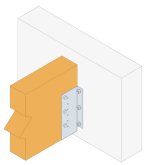
Technical Sheet

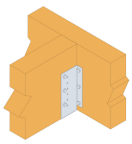
GBE

Joist hanger for glulam - external flanges

Joist Hangers especially developped 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

Material

- S250GD + Z275
- 4mm thick

Benefits

- Fixing only with bolts.
- Large range of possibilities

Applications

For Use With

- Solid timber Joist
- Glulam Joist
-

Technical Sheet

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Joist hanger for glulam - external flanges

Technical Data

Product dimensions range

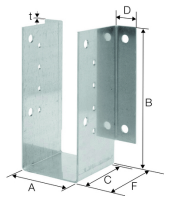
Reference	Connector Dimensions					
	Product Dimensions[mm]			Joist holes		Header holes
	Blank[mm]	A[mm]	Thickness[mm]	Round		Round
				Ø11	Ø18	Ø18
GBE600/4X	600	75-225	4	6	4	4
GBE750/4X	750	75-225	4	8	4	4
GBE900/4X	900	75-225	4	12	6	6
GBE1050/4X	1050	75-225	4	14	6	6
GBE1200/4X	1200	75-225	4	18	8	8
GBE1350/4X	1350	75-225	4	20	8	8
GBE1500/4X	1500	75-225	4	24	10	10

The articles ending with an X are blanks from wihich the products above are made of and are not products.

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Joist hanger for glulam - external flanges



Product Dimensions

Reference	Connector Dimensions													
	Timber size[mm]				Product Dimensions[mm]						Header holes	Joist holes		Other
	Width		Height								Round	Round		
	Min[mm]	Max. [mm]	Min[mm]	Max. [mm]	A[mm]	B[mm]	C[mm]	d[mm]	F[mm]	Thickness[mm]	Ø18	Ø11	Ø18	Weight[kg]
GBE600/90/4	88	90	291	382	90	255	145	54	155	4	4	6	4	3.3
GBE600/104/4	102	104	284	372	104	248	145	54	155	4	4	6	4	3.3
GBE600/114/4	112	114	279	364	114	243	145	54	155	4	4	6	4	3.3
GBE600/138/4	136	138	267	346	138	231	145	54	155	4	4	6	4	3.3
GBE600/162/4	160	162	255	328	162	219	145	54	155	4	4	6	4	3.3
GBE600/186/4	184	186	243	310	186	207	145	54	155	4	4	6	4	3.3
GBE600/210/4	208	210	231	292	210	195	145	54	155	4	4	6	4	3.3
GBE750/90/4	88	90	366	495	90	330	145	54	155	4	4	8	4	4.3
GBE750/104/4	102	104	359	484	104	323	145	54	155	4	4	8	4	4.3
GBE750/114/4	112	114	354	477	114	318	145	54	155	4	4	8	4	4.3
GBE750/138/4	136	138	342	459	138	306	145	54	155	4	4	8	4	4.3
GBE750/162/4	160	162	330	441	162	294	145	54	155	4	4	8	4	4.3
GBE750/186/4	184	186	318	423	186	282	145	54	155	4	4	8	4	4.3
GBE750/210/4	208	210	306	405	210	270	145	54	155	4	4	8	4	4.3
GBE900/90/4	88	90	441	607	90	405	145	54	155	4	6	12	6	5.2
GBE900/104/4	102	104	434	597	104	398	145	54	155	4	6	12	6	5.2
GBE900/114/4	112	114	429	589	114	393	145	54	155	4	6	12	6	5.2
GBE900/138/4	136	138	417	571	138	381	145	54	155	4	6	12	6	5.2
GBE900/162/4	160	162	405	553	162	369	145	54	155	4	6	12	6	5.2
GBE900/186/4	184	186	393	535	186	357	145	54	155	4	6	12	6	5.2
GBE900/210/4	208	210	381	517	210	345	145	54	155	4	6	12	6	5.2
GBE1050/90/4	88	90	516	720	90	480	145	54	155	4	6	14	6	6.1
GBE1050/104/4	102	104	509	709	104	473	145	54	155	4	6	14	6	6.1
GBE1050/114/4	112	114	504	702	114	468	145	54	155	4	6	14	6	6.1
GBE1050/138/4	136	138	492	684	138	456	145	54	155	4	6	14	6	6.1
GBE1050/162/4	160	162	480	666	162	444	145	54	155	4	6	14	6	6.1
GBE1050/186/4	184	186	468	648	186	432	145	54	155	4	6	14	6	6.1
GBE1050/210/4	208	210	456	630	210	420	145	54	155	4	6	14	6	6.1
GBE1200/90/4	88	90	591	832	90	555	145	54	155	4	8	18	8	7
GBE1200/104/4	102	104	584	822	104	548	145	54	155	4	8	18	8	7
GBE1200/114/4	112	114	579	814	114	543	145	54	155	4	8	18	8	7
GBE1200/138/4	136	138	567	796	138	531	145	54	155	4	8	18	8	7
GBE1200/162/4	160	162	555	778	162	519	145	54	155	4	8	18	8	7
GBE1200/186/4	184	186	543	760	186	507	145	54	155	4	8	18	8	7
GBE1200/210/4	208	210	531	742	210	495	145	54	155	4	8	18	8	7
GBE1350/138/4	136	138	642	909	138	606	145	54	155	4	8	20	8	8
GBE1350/162/4	160	162	630	891	162	594	145	54	155	4	8	20	8	8
GBE1350/186/4	184	186	618	873	186	582	145	54	155	4	8	20	8	8
GBE1350/210/4	208	210	606	855	210	570	145	54	155	4	8	20	8	8
GBE1500/138/4	136	138	717	1021	138	681	145	54	155	4	10	24	10	8.9

Technical Sheet

GBE

Joist hanger for glulam - external flanges

Reference	Connector Dimensions													
	Timber size[mm]				Product Dimensions[mm]						Header holes	Joist holes		Other
	Width		Height								Round	Round		
	Min[mm]	Max. [mm]	Min[mm]	Max. [mm]	A[mm]	B[mm]	C[mm]	d[mm]	F[mm]	Thickness[mm]	Ø18	Ø11	Ø18	Weight[kg]
GBE1500/162/4	160	162	705	1003	162	669	145	54	155	4	10	24	10	8.9
GBE1500/186/4	184	186	693	985	186	657	145	54	155	4	10	24	10	8.9
GBE1500/210/4	208	210	681	967	210	645	145	54	155	4	10	24	10	8.9
GBE600/100/4	98	100	286	375	100	250	145	54	155	4	4	6	4	3.3
GBE600/120/4	118	120	276	360	120	240	145	54	155	4	4	6	4	3.3
GBE600/140/4	138	140	266	345	140	230	145	54	155	4	4	6	4	3.3
GBE600/160/4	158	160	256	330	160	220	145	54	155	4	4	6	4	3.3
GBE600/180/4	178	180	246	315	180	210	145	54	155	4	4	6	4	3.3
GBE600/200/4	198	200	236	300	200	200	145	54	155	4	4	6	4	3.3
GBE600/220/4	218	220	226	285	220	190	145	54	155	4	4	6	4	3.3
GBE750/100/4	98	100	361	487	100	325	145	54	155	4	4	8	4	4.3
GBE750/120/4	118	120	351	472	120	315	145	54	155	4	4	8	4	4.3
GBE750/140/4	138	140	341	457	140	305	145	54	155	4	4	8	4	4.3
GBE750/160/4	158	160	331	442	160	295	145	54	155	4	4	8	4	4.3
GBE750/180/4	178	180	321	427	180	285	145	54	155	4	4	8	4	4.3
GBE750/200/4	198	200	311	412	200	275	145	54	155	4	4	8	4	4.3
GBE750/220/4	218	220	301	397	220	265	145	54	155	4	4	8	4	4.3
GBE900/100/4	98	100	436	600	100	400	145	54	155	4	6	12	6	5.2
GBE900/120/4	118	120	426	585	120	390	145	54	155	4	6	12	6	5.2
GBE900/140/4	138	140	416	570	140	380	145	54	155	4	6	12	6	5.2
GBE900/160/4	158	160	406	555	160	370	145	54	155	4	6	12	6	5.2
GBE900/180/4	178	180	396	540	180	360	145	54	155	4	6	12	6	5.2
GBE900/200/4	198	200	386	525	200	350	145	54	155	4	6	12	6	5.2
GBE900/220/4	218	220	376	510	220	340	145	54	155	4	6	12	6	5.2
GBE1050/100/4	98	100	511	712	100	475	145	54	155	4	6	14	6	6.1
GBE1050/120/4	118	120	501	697	120	465	145	54	155	4	6	14	6	6.1
GBE1050/140/4	138	140	491	682	140	455	145	54	155	4	6	14	6	6.1
GBE1050/160/4	158	160	481	667	160	445	145	54	155	4	6	14	6	6.1
GBE1050/180/4	178	180	471	652	180	435	145	54	155	4	6	14	6	6.1
GBE1050/200/4	198	200	461	637	200	425	145	54	155	4	6	14	6	6.1
GBE1050/220/4	218	220	451	622	220	415	145	54	155	4	6	14	6	6.1
GBE1200/100/4	98	100	586	825	100	550	145	54	155	4	8	18	8	7
GBE1200/120/4	118	120	576	810	120	540	145	54	155	4	8	18	8	7
GBE1200/140/4	138	140	566	795	140	530	145	54	155	4	8	18	8	7
GBE1200/160/4	158	160	556	780	160	520	145	54	155	4	8	18	8	7
GBE1200/180/4	178	180	546	765	180	510	145	54	155	4	8	18	8	7
GBE1200/200/4	198	200	536	750	200	500	145	54	155	4	8	18	8	7
GBE1200/220/4	218	220	526	735	220	490	145	54	155	4	8	18	8	7
GBE1350/100/4	-	-	-	-	100	625	145	54	155	4	8	18	8	8
GBE1350/120/4	-	-	-	-	120	615	145	54	155	4	8	18	8	8
GBE1350/140/4	138	140	641	907	140	605	145	54	155	4	8	20	8	8
GBE1350/160/4	158	160	631	892	160	595	145	54	155	4	8	20	8	8
GBE1350/180/4	178	180	621	877	180	585	145	54	155	4	8	20	8	8
GBE1350/200/4	198	200	611	862	200	575	145	54	155	4	8	20	8	8
GBE1350/220/4	-	-	-	-	220	565	145	54	155	4	8	20	8	8
GBE1500/100/4	-	-	-	-	100	700	145	54	155	4	10	24	10	8.9
GBE1500/120/4	-	-	-	-	120	690	145	54	155	4	10	24	10	8.9

Technical Sheet

GBE

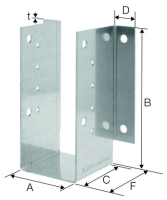
Joist hanger for glulam - external flanges

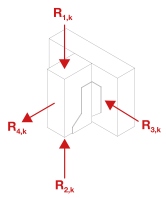
Reference	Connector Dimensions													
	Timber size[mm]				Product Dimensions[mm]						Header holes	Joist holes		Other
	Width		Height								Round	Round		
	Min[mm]	Max. [mm]	Min[mm]	Max. [mm]	A[mm]	B[mm]	C[mm]	d[mm]	F[mm]	Thickness[mm]	Ø18	Ø11	Ø18	Weight[kg]
GBE1500/140/4	-	-	-	-	140	680	145	54	155	4	10	24	10	8.9
GBE1500/160/4	158	160	706	1005	160	670	145	54	155	4	10	24	10	8.9
GBE1500/180/4	178	180	696	990	180	660	145	54	155	4	10	24	10	8.9
GBE1500/200/4	198	200	686	975	200	650	145	54	155	4	10	24	10	8.9
GBE1500/220/4	218	220	676	960	220	640	145	54	155	4	10	24	10	8.9

Technical Sheet

GBE

Joist hanger for glulam - external flanges





Product capacities – Timber to timber

Reference	Hanger capacity		Connector Dimensions
	Characteristic capacities - Timber to timber - Full nailing		Product Dimensions[mm]
	Number of Fasteners		A[mm]
	Header	Joist	
	Qty	Qty	
GBE600/90/4	4.0	2.0	90
GBE600/104/4	4.0	2.0	104
GBE600/114/4	4.0	2.0	114
GBE600/138/4	4.0	2.0	138
GBE600/162/4	4.0	2.0	162
GBE600/186/4	4.0	2.0	186
GBE600/210/4	4.0	2.0	210
GBE750/90/4	4.0	2.0	90
GBE750/104/4	4.0	2.0	104
GBE750/114/4	4.0	2.0	114
GBE750/138/4	4.0	2.0	138
GBE750/162/4	4.0	2.0	162
GBE750/186/4	4.0	2.0	186
GBE750/210/4	4.0	2.0	210
GBE900/90/4	6.0	3.0	90
GBE900/104/4	6.0	3.0	104
GBE900/114/4	6.0	3.0	114
GBE900/138/4	6.0	3.0	138
GBE900/162/4	6.0	3.0	162
GBE900/186/4	6.0	3.0	186
GBE900/210/4	6.0	3.0	210
GBE1050/90/4	6.0	3.0	90
GBE1050/104/4	6.0	3.0	104
GBE1050/114/4	6.0	3.0	114
GBE1050/138/4	6.0	3.0	138
GBE1050/162/4	6.0	3.0	162
GBE1050/186/4	6.0	3.0	186
GBE1050/210/4	6.0	3.0	210
GBE1200/90/4	8.0	4.0	90
GBE1200/104/4	8.0	4.0	104
GBE1200/114/4	8.0	4.0	114
GBE1200/138/4	8.0	4.0	138
GBE1200/162/4	8.0	4.0	162
GBE1200/186/4	8.0	4.0	186
GBE1200/210/4	8.0	4.0	210
GBE1350/138/4	8.0	4.0	138
GBE1350/162/4	8.0	4.0	162

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

Technical Sheet

GBE

Joist hanger for glulam - external flanges

Reference	Hanger capacity		Connector Dimensions
	Characteristic capacities - Timber to timber - Full nailing		Product Dimensions[mm]
	Number of Fasteners		A[mm]
	Header	Joist	
	Qty	Qty	
GBE1350/186/4	8.0	4.0	186
GBE1350/210/4	8.0	4.0	210
GBE1500/138/4	10.0	5.0	138
GBE1500/162/4	10.0	5.0	162
GBE1500/186/4	10.0	5.0	186
GBE1500/210/4	10.0	5.0	210
GBE600/100/4	4.0	2.0	100
GBE600/120/4	4.0	2.0	120
GBE600/140/4	4.0	2.0	140
GBE600/160/4	4.0	2.0	160
GBE600/180/4	4.0	2.0	180
GBE600/200/4	4.0	2.0	200
GBE600/220/4	4.0	2.0	220
GBE750/100/4	4.0	2.0	100
GBE750/120/4	4.0	2.0	120
GBE750/140/4	4.0	2.0	140
GBE750/160/4	4.0	2.0	160
GBE750/180/4	4.0	2.0	180
GBE750/200/4	4.0	2.0	200
GBE750/220/4	4.0	2.0	220
GBE900/100/4	6.0	3.0	100
GBE900/120/4	6.0	3.0	120
GBE900/140/4	6.0	3.0	140
GBE900/160/4	6.0	3.0	160
GBE900/180/4	6.0	3.0	180
GBE900/200/4	6.0	3.0	200
GBE900/220/4	6.0	3.0	220
GBE1050/100/4	6.0	3.0	100
GBE1050/120/4	6.0	3.0	120
GBE1050/140/4	6.0	3.0	140
GBE1050/160/4	6.0	3.0	160
GBE1050/180/4	6.0	3.0	180
GBE1050/200/4	6.0	3.0	200
GBE1050/220/4	6.0	3.0	220
GBE1200/100/4	8.0	4.0	100
GBE1200/120/4	8.0	4.0	120
GBE1200/140/4	8.0	4.0	140
GBE1200/160/4	8.0	4.0	160
GBE1200/180/4	8.0	4.0	180
GBE1200/200/4	8.0	4.0	200
GBE1200/220/4	8.0	4.0	220
GBE1350/100/4	8.0	4.0	100
GBE1350/120/4	8.0	4.0	120

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

Technical Sheet

GBE

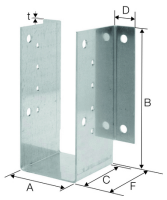
Joist hanger for glulam - external flanges

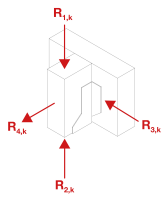
Reference	Hanger capacity		Connector Dimensions
	Characteristic capacities - Timber to timber - Full nailing		Product Dimensions[mm]
	Number of Fasteners		A[mm]
	Header	Joist	
	Qty	Qty	
GBE1350/140/4	8.0	4.0	140
GBE1350/160/4	8.0	4.0	160
GBE1350/180/4	8.0	4.0	180
GBE1350/200/4	8.0	4.0	200
GBE1350/220/4	8.0	4.0	220
GBE1500/100/4	10.0	5.0	100
GBE1500/120/4	10.0	5.0	120
GBE1500/140/4	10.0	5.0	140
GBE1500/160/4	10.0	5.0	160
GBE1500/180/4	10.0	5.0	180
GBE1500/200/4	10.0	5.0	200
GBE1500/220/4	10.0	5.0	220

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

Technical Sheet

GBE
Joist hanger for glulam - external flanges





Product capacities – Timber to concrete

Reference	Hanger capacity				Connector Dimensions
	Characteristic capacities - Timber to concrete or steel				Product Dimensions[mm]
	Number of Fasteners				A[mm]
	Header		Joist		
	Qty	Type	Qty	Type	
GBE600/90/4	4.0	Ø16*	2.0	Ø16**	90
GBE600/104/4	4.0	Ø16*	2.0	Ø16**	104
GBE600/114/4	4.0	Ø16*	2.0	Ø16**	114
GBE600/138/4	4.0	Ø16*	2.0	Ø16**	138
GBE600/162/4	4.0	Ø16*	2.0	Ø16**	162
GBE600/186/4	4.0	Ø16*	2.0	Ø16**	186
GBE600/210/4	4.0	Ø16*	2.0	Ø16**	210
GBE750/90/4	4.0	Ø16*	2.0	Ø16**	90
GBE750/104/4	4.0	Ø16*	2.0	Ø16**	104
GBE750/114/4	4.0	Ø16*	2.0	Ø16**	114
GBE750/138/4	4.0	Ø16*	2.0	Ø16**	138
GBE750/162/4	4.0	Ø16*	2.0	Ø16**	162
GBE750/186/4	4.0	Ø16*	2.0	Ø16**	186
GBE750/210/4	4.0	Ø16*	2.0	Ø16**	210
GBE900/90/4	6.0	Ø16*	3.0	Ø16**	90
GBE900/104/4	6.0	Ø16*	3.0	Ø16**	104
GBE900/114/4	6.0	Ø16*	3.0	Ø16**	114
GBE900/138/4	6.0	Ø16*	3.0	Ø16**	138
GBE900/162/4	6.0	Ø16*	3.0	Ø16**	162
GBE900/186/4	6.0	Ø16*	3.0	Ø16**	186
GBE900/210/4	6.0	Ø16*	3.0	Ø16**	210
GBE1050/90/4	6.0	Ø16*	3.0	Ø16**	90
GBE1050/104/4	6.0	Ø16*	3.0	Ø16**	104
GBE1050/114/4	6.0	Ø16*	3.0	Ø16**	114
GBE1050/138/4	6.0	Ø16*	3.0	Ø16**	138
GBE1050/162/4	6.0	Ø16*	3.0	Ø16**	162
GBE1050/186/4	6.0	Ø16*	3.0	Ø16**	186
GBE1050/210/4	6.0	Ø16*	3.0	Ø16**	210
GBE1200/90/4	8.0	Ø16*	4.0	Ø16**	90
GBE1200/104/4	8.0	Ø16*	4.0	Ø16**	104
GBE1200/114/4	8.0	Ø16*	4.0	Ø16**	114
GBE1200/138/4	8.0	Ø16*	4.0	Ø16**	138

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)

Technical Sheet

GBE

Joist hanger for glulam - external flanges

Reference	Hanger capacity				Connector Dimensions
	Characteristic capacities - Timber to concrete or steel				Product Dimensions[mm]
	Number of Fasteners				A[mm]
	Header		Joist		
	Qty	Type	Qty	Type	
GBE1200/162/4	8.0	Ø16*	4.0	Ø16**	162
GBE1200/186/4	8.0	Ø16*	4.0	Ø16**	186
GBE1200/210/4	8.0	Ø16*	4.0	Ø16**	210
GBE1350/138/4	8.0	Ø16*	4.0	Ø16**	138
GBE1350/162/4	8.0	Ø16*	4.0	Ø16**	162
GBE1350/186/4	8.0	Ø16*	4.0	Ø16**	186
GBE1350/210/4	8.0	Ø16*	4.0	Ø16**	210
GBE1500/138/4	10.0	Ø16*	5.0	Ø16**	138
GBE1500/162/4	10.0	Ø16*	5.0	Ø16**	162
GBE1500/186/4	10.0	Ø16*	5.0	Ø16**	186
GBE1500/210/4	10.0	Ø16*	5.0	Ø16**	210
GBE600/100/4	4.0	Ø16*	2.0	Ø16**	100
GBE600/120/4	4.0	Ø16*	2.0	Ø16**	120
GBE600/140/4	4.0	Ø16*	2.0	Ø16**	140
GBE600/160/4	4.0	Ø16*	2.0	Ø16**	160
GBE600/180/4	4.0	Ø16*	2.0	Ø16**	180
GBE600/200/4	4.0	Ø16*	2.0	Ø16**	200
GBE600/220/4	4.0	Ø16*	2.0	Ø16**	220
GBE750/100/4	4.0	Ø16*	2.0	Ø16**	100
GBE750/120/4	4.0	Ø16*	2.0	Ø16**	120
GBE750/140/4	4.0	Ø16*	2.0	Ø16**	140
GBE750/160/4	4.0	Ø16*	2.0	Ø16**	160
GBE750/180/4	4.0	Ø16*	2.0	Ø16**	180
GBE750/200/4	4.0	Ø16*	2.0	Ø16**	200
GBE750/220/4	4.0	Ø16*	2.0	Ø16**	220
GBE900/100/4	6.0	Ø16*	3.0	Ø16**	100
GBE900/120/4	6.0	Ø16*	3.0	Ø16**	120
GBE900/140/4	6.0	Ø16*	3.0	Ø16**	140
GBE900/160/4	6.0	Ø16*	3.0	Ø16**	160
GBE900/180/4	6.0	Ø16*	3.0	Ø16**	180
GBE900/200/4	6.0	Ø16*	3.0	Ø16**	200
GBE900/220/4	6.0	Ø16*	3.0	Ø16**	220
GBE1050/100/4	6.0	Ø16*	3.0	Ø16**	100
GBE1050/120/4	6.0	Ø16*	3.0	Ø16**	120
GBE1050/140/4	6.0	Ø16*	3.0	Ø16**	140
GBE1050/160/4	6.0	Ø16*	3.0	Ø16**	160
GBE1050/180/4	6.0	Ø16*	3.0	Ø16**	180
GBE1050/200/4	6.0	Ø16*	3.0	Ø16**	200

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)

Technical Sheet

GBE

Joist hanger for glulam - external flanges

Reference	Hanger capacity				Connector Dimensions
	Characteristic capacities - Timber to concrete or steel				Product Dimensions[mm]
	Number of Fasteners				A[mm]
	Header		Joist		
	Qty	Type	Qty	Type	
GBE1050/220/4	6.0	Ø16*	3.0	Ø16**	220
GBE1200/100/4	8.0	Ø16*	4.0	Ø16**	100
GBE1200/120/4	8.0	Ø16*	4.0	Ø16**	120
GBE1200/140/4	8.0	Ø16*	4.0	Ø16**	140
GBE1200/160/4	8.0	Ø16*	4.0	Ø16**	160
GBE1200/180/4	8.0	Ø16*	4.0	Ø16**	180
GBE1200/200/4	8.0	Ø16*	4.0	Ø16**	200
GBE1200/220/4	8.0	Ø16*	4.0	Ø16**	220
GBE1350/100/4	8.0	Ø16*	4.0	Ø16**	100
GBE1350/120/4	8.0	Ø16*	4.0	Ø16**	120
GBE1350/140/4	8.0	Ø16*	4.0	Ø16**	140
GBE1350/160/4	8.0	Ø16*	4.0	Ø16**	160
GBE1350/180/4	8.0	Ø16*	4.0	Ø16**	180
GBE1350/200/4	8.0	Ø16*	4.0	Ø16**	200
GBE1350/220/4	8.0	Ø16*	4.0	Ø16**	220
GBE1500/100/4	10.0	Ø16*	5.0	Ø16**	100
GBE1500/120/4	10.0	Ø16*	5.0	Ø16**	120
GBE1500/140/4	10.0	Ø16*	5.0	Ø16**	140
GBE1500/160/4	10.0	Ø16*	5.0	Ø16**	160
GBE1500/180/4	10.0	Ø16*	5.0	Ø16**	180
GBE1500/200/4	10.0	Ø16*	5.0	Ø16**	200
GBE1500/220/4	10.0	Ø16*	5.0	Ø16**	220

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)

Installation

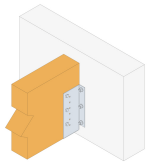
Fasteners

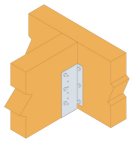
On Timber:

- 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





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