



„Innovationen im Holzbau“

GH integral connector, 2-rows



Fig. by way of example

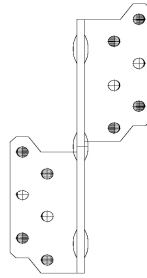


Fig. by way of example  
Partial nailing/column joint



ETA 10/0009

Structural values

Type	Secondary member		SD	Nail	4.0x60	k <sub>mod</sub> =0.6/permanent		k <sub>mod</sub> =0.8/medium-term		k <sub>mod</sub> =0.9/short-term		charact.	
	B ≥	H ≥				n <sub>J</sub> Ø12	Figure	n <sub>H</sub>	Compression	Tension	Compression	Tension	Compression
0-2	60	108	2	Full	8	F <sub>Z,D,Rd</sub> 2,91	F <sub>Z,Z,Rd</sub> 1,27	F <sub>Z,D,Rd</sub> 3,88	F <sub>Z,Z,Rd</sub> 1,69	F <sub>Z,D,Rd</sub> 4,37	F <sub>Z,Z,Rd</sub> 1,89	FZ <sub>↓,D,Rk</sub> 6,2	FZ <sub>↑,U,Rk</sub> 2,7
	60	108	2	Partial	4	1,38	0,53	1,84	0,71	2,07	0,80	2,9	1,1
	80	108	2	Full	8	3,72	1,27	4,64	1,69	4,95	1,89	6,4	2,7
	80	108	2	Partial	4	1,89	0,53	2,20	0,71	2,35	0,80	3,0	1,1
	100	108	2	Full	8	3,72	1,27	4,82	1,69	5,19	1,89	6,8	2,7
	100	108	2	Partial	4	1,93	0,53	2,29	0,71	2,46	0,80	3,2	1,1
	120	108	2	Full	8	3,72	1,27	4,83	1,69	5,37	1,89	7,4	2,7
I-2	120	108	2	Partial	4	2,00	0,53	2,42	0,71	2,63	0,80	3,5	1,1
	60	144	3	Full	12	5,73	3,80	7,64	5,07	8,59	5,70	12,1	8,1
	60	144	3	Partial	8	4,74	3,21	6,32	4,28	7,11	4,81	10,0	6,8
	80	144	3	Full	12	7,78	5,21	9,13	6,06	9,73	6,46	12,5	8,3
	80	144	3	Partial	8	6,50	4,40	7,55	5,11	8,06	5,45	10,4	7,0
	100	144	3	Full	12	7,78	5,30	9,47	6,29	10,20	6,77	13,4	8,9
	100	144	3	Partial	8	6,61	4,47	7,84	5,31	8,44	5,71	11,1	7,5
II-2	120	144	3	Full	12	7,78	5,51	9,87	6,67	10,85	7,24	14,6	9,7
	120	144	3	Partial	8	6,87	4,65	8,31	5,63	9,02	6,11	12,1	8,2
	60	180	4	Full	16	9,13	7,16	12,18	9,54	13,70	10,74	19,4	15,2
	60	180	4	Partial	8	6,86	4,99	9,15	6,65	10,29	7,48	13,8	10,6
	80	180	4	Full	16	12,31	9,44	14,56	11,41	15,53	12,17	20,0	15,7
	80	180	4	Partial	8	8,47	6,83	9,98	7,95	10,68	8,48	13,8	10,9
	100	180	4	Full	16	12,31	9,44	15,10	11,84	16,27	12,75	21,4	16,8
III-2	100	180	4	Partial	8	8,47	6,95	9,98	8,25	10,68	8,88	13,8	11,7
	120	180	4	Full	16	12,31	9,44	15,32	12,07	16,73	13,32	22,5	18,3
	120	180	4	Partial	8	8,47	7,23	9,98	8,74	10,68	9,49	13,8	12,6
	60	216	5	Full	20	12,29	11,16	16,39	14,88	18,44	16,74	26,1	23,6
	60	216	5	Partial	12	10,02	7,65	13,36	10,20	15,03	11,48	20,7	16,2
	80	216	5	Full	20	16,85	13,68	19,59	17,26	20,90	18,95	26,9	24,4
	80	216	5	Partial	12	12,70	10,49	14,97	12,20	16,02	13,01	20,7	16,8
IV-2	100	216	5	Full	20	17,14	13,68	20,33	17,26	21,89	18,95	28,8	25,8
	120	216	5	Partial	12	12,70	10,67	14,97	12,65	16,02	13,63	20,7	18,0
	120	216	5	Full	20	17,82	13,68	21,56	17,26	23,40	18,95	31,4	25,8
	120	216	5	Partial	12	12,70	11,09	14,97	13,42	16,02	14,57	20,7	19,6
	60	252	6	Full	24	16,44	15,60	21,92	20,80	24,66	23,40	34,8	33,1
	60	252	6	Partial	12	12,70	10,02	14,97	13,36	16,02	15,03	20,7	20,7
	80	252	6	Full	24	22,53	18,19	26,20	22,68	27,95	24,78	36,0	33,4
IV-2	80	252	6	Partial	12	12,70	12,70	14,97	14,97	16,02	16,02	20,7	20,7
	100	252	6	Full	24	22,80	18,19	27,19	22,68	29,28	24,78	38,6	33,4
	100	252	6	Partial	12	12,70	12,70	14,97	14,97	16,02	16,02	20,7	20,7
	120	252	6	Full	24	22,80	18,19	27,46	22,68	29,61	24,78	38,8	33,4
	120	252	6	Partial	12	12,70	12,70	14,97	14,97	16,02	16,02	20,7	20,7
	120	252	6	Full	24	22,80	18,19	27,46	22,68	29,61	24,78	38,8	33,4

Calculation of the load-bearing capacities of the fasteners to DIN 1052:2008-12.  
 Characteristic density of the members  $\rho_k=350 \text{ kg/m}^3$ .  
 Fixing onto the main member/the column by means of GH connector nails (threaded nails) 4.0x60.  
 Distance of nails from loaded edge, perpendicular to the grain  $a_{2,t}$  or  $a_{4,t} = 28 \text{ mm}$ .  
 Dowel made of steel grade S235JR.  
 The moment resulting from the eccentricity must be carried by the main member.  
 Tension may have to be verified separately.  
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