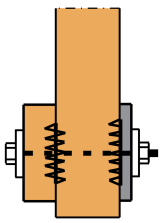
Technical Sheet

C10
Reversible gear GEKA C10

Along with the dowel serves to link two timber elements.





Features

Material

- **Galvanized**

Applications

Applicatons

wood

Scope

- **With the dowel serves to link two timber elements.**

Technical Sheet

C10
Reversible gear GEKA C10

SIMPSON Strong-Tie

Technical Data



Product Dimensions

Reference	Connector Dimensions[mm]										
	Other			Product Dimensions[mm]							
	Tun / DB nr.	NOB nr.	Weight[kg]	t[mm]	a1[mm]	a2[mm]	Ø (2)			Height	
							External	Center hole	Side holes	Teeth	Total
							dc[mm]	d_1[mm]	d2[mm]	h_1[mm]	hc[mm]
C10-50	TUN983	42295540	0.05	3	-	-	50	30.5	-	12	27
C10-65	TUN982	42295566	0.093	3	-	-	65	35.5	-	12	27
C10-80	TUN981	42295585	0.11	3	-	-	80	49.5	-	12	27
C10-95	TUN980	42295604	0.14	3	-	-	95	65.5	-	12	27
C10-115	TUN979	42295612	0.19	3	-	-	115	85.5	-	12	27

Capacities

Reference	Shear connectors capacity
	Characteristic Capacities[kN]
	Characteristic value of the load-bearing capacity parallel to the fiber (α=0)
C10-50	8.8
C10-65	13.1
C10-80	17.9
C10-95	23.1
C10-115	30.8

For the load capacity of the anchor plate, the values summed.

Must be a minimum distance drive dowels see EN1995-1-1

C10
Reversible gear GEKA C10



Dimensions - Geka double sided C10

Reference	Connector Dimensions[mm]					
	Other	Product Dimensions[mm]				
	Type	t[mm]	Ø (2)		Height	
			External	Center hole	Teeth	Total
			dc[mm]	d_1[mm]	h_1[mm]	hc[mm]
C10-50	C10	3	50	30.5	12	27
C10-65	C10	3	65	35.5	12	27
C10-80	C10	3	80	49.5	12	27
C10-95	C10	3	95	65.5	12	27
C10-115	C10	3	115	85.5	12	27

Minimum distances and characteristic values

Reference	Connector Dimensions[mm]	Shear connectors capacity								
	Other	Chosen timber thickness[mm]		Minimum distances[mm]						Characteristic shear resistance (bolt resistance not included)[kN]
	Type	t_1[mm]	t_2[mm]	Spacing perpendicular to grain	from loaded end	from unloaded end	from loaded edge	from unloaded edge	Spacing parallel to grain	
				a_2[mm]	$a_{3.t}$[mm]	$a_{3.c}$ $\alpha=90°$ [mm]	$a_{4.t}$ $\alpha=90°$ [mm]	$a_{4.c}$[mm]	a_1 $\alpha=0°$ [mm]	$R_{v.k}$[kN]
C10-50	C10	36	60	60	100	100	40	30	100	8.8
C10-65	C10	36	60	78	130	130	52	39	130	13.1
C10-80	C10	36	60	96	160	160	64	48	160	17.8
C10-95	C10	36	60	114	190	190	76	57	190	23.1
C10-115	C10	36	60	138	230	230	92	69	230	30.8

The given characteristic shear resistance per connector $R_{v.k}$ is calculated according to the minimum distances given in this table and for timber grade C24. This capacity can be increased with a higher $a_{3.t}$ or a higher timber grade (see k_2 and k_3 factor according to EN1995). For lower t_1 or t_2, please refer to EN1995. The characteristic bolt shear resistance is not included and should be added.

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