Technical Sheet

C1 - C5

Bulldog®-sided C1-C3-C5

Anchor blade, which is used to join two pieces of timber with pin.

Features

Material

- **DC01 (DX51D)**

Benefits

- **When connected using pins and dowels do not come into contact two bonded materials.**

Applications

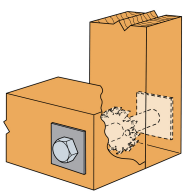
Applicatons

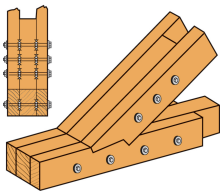
wood

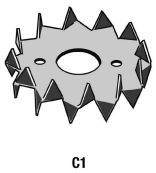
Scope

- **Wood / Wood**











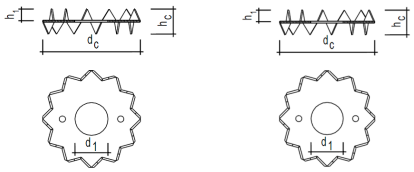


Technical Sheet

C1 - C5
Bulldog®-sided C1-C3-C5

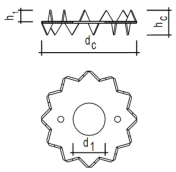
Technical Data

Dimensions - Round double sided C1



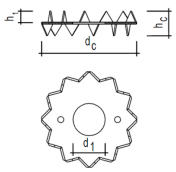
Reference	Connector Dimensions[mm]								
	Other				Product Dimensions[mm]				
	Type	Tun / DB nr.	NOB nr.	Qty per Box	t[mm]	Ø (2)		Height	
						External	Center hole	Teeth	Total
						dc[mm]	d_1[mm]	h_1[mm]	hc[mm]
C1-50-B	C1	5804553	43910606	200.0	1	50	17	6	13
C1-62-B	C1	5804554	43910614	100.0	1.2	62	21	7.4	16
C1-75-B	C1	5804555	NOB179	100.0	1.3	75	26	9.1	19.5
C1-50G-B	C1	8271405	24793937	200.0	1	50	17	6	13
C1-62G-B	C1	8271413	24793952	100.0	1.2	62	21	7.4	16
C1-75G-B	C1	8271421	24793960	100.0	1.3	75	26	9.1	19.5
C1-95G-B	C1	8271439	24793978	40.0	1.4	95	33	11.3	24
C1-117G-B	C1	8977548	24793994	25.0	1.5	117	48	14.3	30

Dimensions - Oval double sided C3



Reference	Connector Dimensions[mm]										
	Other				Product Dimensions[mm]						
	Type	Tun / DB nr.	NOB nr.	Qty per Box	t[mm]	a1[mm]	a2[mm]	Ø (2)		Height	
								Center hole	Side holes	Teeth	Total
								d_1[mm]	d2[mm]	h_1[mm]	hc[mm]
C3-73/130G-B	C3	8977571	24794018	50.0	1.5	73	130	26	16	13.3	28

Dimensions - Square double sided C5



Reference	Connector Dimensions[mm]								
	Other				Product Dimensions[mm]				
	Type	Tun / DB nr.	NOB nr.	Qty per Box	t[mm]	Ø (2)		Height	
						External	Center hole	Teeth	Total
						dc[mm]	d_1[mm]	h_1[mm]	hc[mm]
C5-100G-B	C5	8977555	24793986	50.0	1.4	100	40	7.3	16
C5-130G-B	C5	8977563	24794000	25.0	1.5	130	52	9.3	20

Technical Sheet

C1 - C5
Bulldog®-sided C1-C3-C5

SIMPSON Strong-Tie

Minimum distances and characteristic values

Reference	Connector Dimensions[mm]	Shear connectors capacity								
	Other	Chosen timber thickness[mm]		Characteristic shear resistance (bolt resistance not included)[kN]	Minimum distances[mm]					
	Type	t_1[mm]	t_2[mm]	$R_{v.k}$[kN]	Spacing perpendicular to grain a_2[mm]	from loaded end $a_{3.t}$[mm]	from unloaded end $a_{3.c}$ $\alpha=90°$ [mm]	from loaded edge $a_{4.t}$ $\alpha=90°$ [mm]	from unloaded edge $a_{4.c}$[mm]	Spacing parallel to grain a_1 $\alpha=0°$ [mm]
C1-50-B	C1	18	30	6.3	60	75	75	40	30	75
C1-62-B	C1	23	37	8.7	75	93	93	50	38	93
C1-75-B	C1	28	46	11.6	90	113	113	60	45	113
C1-50G-B	C1	18	30	6.3	60	75	75	40	30	75
C1-62G-B	C1	23	37	8.7	75	93	93	50	38	93
C1-75G-B	C1	28	46	11.6	90	113	113	60	45	113
C1-95G-B	C1	34	57	16.6	114	143	143	76	57	143
C1-117G-B	C1	43	72	22.7	141	176	176	94	71	176
C3-73/130G-B	C3	40	67	17.1	117	146	146	78	59	146
C5-100G-B	C5	22	37	18	120	150	150	80	60	150
C5-130G-B	C5	28	47	26.6	156	195	195	104	78	195

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 timber grade (see k_3 factor according to EN1995). This capacity can also be decreased with lower $a_{3.t}$ (see k_2 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.

Installation

Installation

- The installation is made while tightening the bolt, the teeth sink into the timber under the pressure of the bolt.
- The bolt installation always requires two washers.

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