Technical Sheet

C2 - C4

Bulldog-sided C2-C4

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



Features

Material

- **DC01**

Benefits

Wood-steel and wood, wood joints.
The pins must fit snugly, directly involved in the transfer of power.

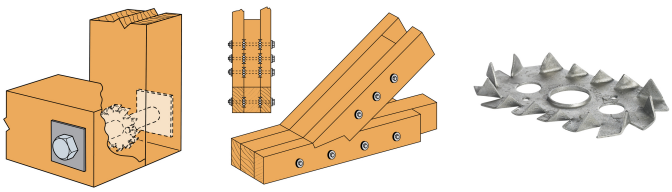
Applications

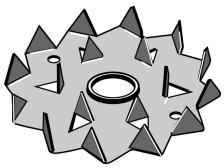
Applicatons

wood

Scope

- **purlins, other wooden joints**



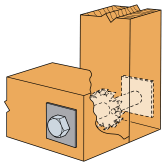


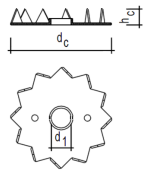
Technical Sheet

C2 - C4
Bulldog-sided C2-C4

Technical Data

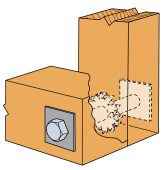
Dimensions - Round single sided C2





Reference	Connector Dimensions[mm]							
	Other			Product Dimensions[mm]				
	Type	Tun / DB nr.	NOB nr.	t[mm]	Ø (2)		Height	
					External	Center hole	Teeth	Total
					dc[mm]	d1[mm]	h1[mm]	hc[mm]
C2-50M10G-B	C2	8978397	24794026	1	50	10.4	5.6	6.6
C2-50M12G-B	C2	-	-	1	50	12.4	5.6	6.6
C2-50M16G-B	C2	8271314	24794042	1	50	16.4	5.6	6.6
C2-50M20G-B	C2	8978405	24794059	1	50	20.4	5.6	6.6
C2-62M12G-B	C2	-	-	1.2	62	12.4	7.5	8.7
C2-62M16G-B	C2	8271330	24794075	1.2	62	16.4	7.5	8.7
C2-62M20G-B	C2	8271348	24794083	1.2	62	20.4	7.5	8.7
C2-75M16G-B	C2	8271355	24794109	1.3	75	16.4	9.2	10.4
C2-75M20G-B	C2	8271363	24794117	1.3	75	20.4	9.2	10.4
C2-95M16G-B	C2	8271371	24794158	1.4	95	16.4	11.4	12.7
C2-95M20G-B	C2	8978462	24794166	1.4	95	20.4	11.4	12.7
C2-95M24G-B	C2	8978488	24794182	1.4	95	24.4	11.4	12.7
C2-117M16G	C2	8271389	24794208	1.5	117	16.4	14.5	16
C2-117M20G-B	C2	8271397	24794216	1.5	117	20.4	14.5	16
C2-117M24G-B	C2	8978512	24794232	1.5	117	24.4	14.5	16

Dimensions - Oval single sided C4



Reference	Connector Dimensions[mm]									
	Other			Product Dimensions[mm]						
	Type	Tun / DB nr.	NOB nr.	t[mm]	a1[mm]	a2[mm]	Ø (2)		Height	
							Center hole	Side holes	Teeth	Total
							d1[mm]	d2[mm]	h1[mm]	hc[mm]
C4-73/130M20G-B	C4	5650023	24794265	1.5	73	130	20.4	16	13.3	14.8

Technical Sheet

C2 - C4
Bulldog-sided C2-C4

Minimum distances and characteristic values

Reference	Connector Dimensions[mm]		Shear connectors capacity								
	Other	Product Dimensions[mm]	Chosen timber thickness[mm]		Minimum distances[mm]						Characteristic shear resistance (bolt resistance not included)[kN]
	Type	db[mm]	t_1[mm]	t_2[mm]	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]	$R_{v.k}$[kN]
C2-50M10G-B	C2	10	17	28	60	75	75	40	30	75	6.4
C2-50M12G-B	C2	12	17	28	60	75	75	40	30	75	6.4
C2-50M16G-B	C2	16	17	28	60	75	75	40	30	75	6.4
C2-50M20G-B	C2	20	17	28	60	75	75	40	30	75	6.4
C2-62M12G-B	C2	12	23	38	75	93	93	50	38	93	8.8
C2-62M16G-B	C2	16	23	38	75	93	93	50	38	93	8.8
C2-62M20G-B	C2	20	23	38	75	93	93	50	38	93	8.8
C2-75M16G-B	C2	16	28	46	90	113	113	60	45	113	11.7
C2-75M20G-B	C2	20	28	46	90	113	113	60	45	113	11.7
C2-95M16G-B	C2	16	35	57	114	143	143	76	57	143	16.7
C2-95M20G-B	C2	20	35	57	114	143	143	76	57	143	16.7
C2-95M24G-B	C2	24	35	57	114	143	143	76	57	143	16.7
C2-117M16G	C2	16	44	73	141	176	176	94	71	176	22.8
C2-117M20G-B	C2	20	44	73	141	176	176	94	71	176	22.8
C2-117M24G-B	C2	24	44	73	141	176	176	94	71	176	22.8
C4-73/130M20G-B	C4	20	40	67	117	146	146	78	59	146	17.3

The given characteristic shear resistance per shear plane $R_{v.k}$ 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.

Installation

Installation

- The installation is made with a hydrolic press.
- The diameter of the inner hole must be the same as the bolt diameter.
- If the toothed plate connector are installed in a workshop, 1 or 2 nails might be needed to hold them during transportation.

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