



Double sided Bulldog® toothed plate connector are used with Bolts in timber. It enhances the performance of the connection.



### Характеристики



### Материал

- Mild Steel HC340 According to EN 10268,
- Hot Dip Galvanized according to EN1461. C1 Ø62 and Ø75 mm models are available with Z275 coating,
- Thickness: from 1 to 1.5 mm.

### Преимущества

- allows disassembly
- wood machining is not necessary



C1



## Применение

### Members

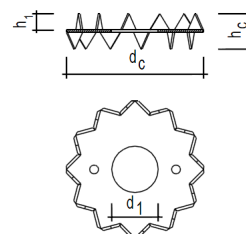
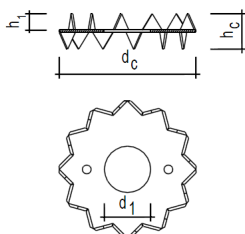
- Holder: Timber, Composite timber, Glulam
- Holded: Timber, Composite timber, Glulam

### Область применения

- Bolt rings for frames.
- connection between: metal ties and frames, concrete columns with frame, tie beams.
- Any wood/wood bolt connection...

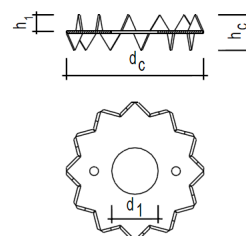
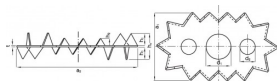
TECHNICAL DATA

Dimensions - Round double sided C1



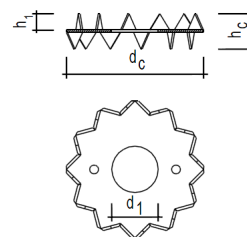
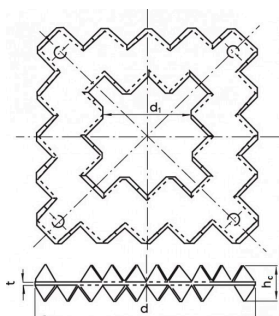
Артикул	Спецификация	Connector dimensions				
		Ø		Высота		T
		External d <sub>c</sub> [mm]	Центральное отверстие d <sub>1</sub> [mm]	Teeth h <sub>1</sub> [mm]	Total h <sub>c</sub> [mm]	t [mm]
C1-50G	C1	50	17	6	13	1
C1-62G	C1	62	21	7.4	16	1.2
C1-75G	C1	75	26	9.1	19.5	1.3
C1-95G	C1	95	33	11.3	24	1.4
C1-117G	C1	117	48	14.3	30	1.5

Dimensions - Oval double sided C3



Артикул	Спецификация	Connector dimensions						
		Ø		Высота		T	a <sub>1</sub> [mm]	a <sub>2</sub> [mm]
		Центральное отверстие d <sub>1</sub> [mm]	Side holes d <sub>2</sub> [mm]	Teeth h <sub>1</sub> [mm]	Total h <sub>c</sub> [mm]	t [mm]		
C3-73/130G	C3	26	16	13.3	28	1.5	73	130

Dimensions - Square double sided C5



Артикул	Спецификация	Connector dimensions				T
		Ø		Высота		
		External	Центральное отверстие	Teeth	Total	
		$d_c$ [mm]	$d_1$ [mm]	$h_1$ [mm]	$h_c$ [mm]	$t$ [mm]
C5-100G	C5	100	40	7.3	16	1.4
C5-130G	C5	130	52	9.3	20	1.5

Minimum distances and characteristic values

Артикул	Спецификация	Chosen timber thickness		Min. distances						Characteristic shear resistance (bolt resistance not included) $R_{v,k}$ [kN]
		$t_2$ [mm]	$t_2$ [mm]	Spacing parallel to grain	Spacing perpendicular to grain	from loaded end	from unloaded end	from loaded edge	from unloaded edge	
				$a_{1 \alpha=0^\circ}$ [mm]	$a_2$ [mm]	$a_{3,t}$ [mm]	$a_{3,c \alpha=90^\circ}$ [mm]	$a_{4,t \alpha=90^\circ}$ [mm]	$a_{4,c}$ [mm]	
C1-50G	C1	18	30	75	60	75	75	40	30	6.3
C1-62G	C1	23	37	93	75	93	93	50	38	8.7
C1-75G	C1	28	46	113	90	113	113	60	45	11.6
C1-95G	C1	34	57	143	114	143	143	76	57	16.6
C1-117G	C1	43	72	176	141	176	176	94	71	22.7
C3-73/130G	C3	40	67	146	117	146	146	78	59	17.1
C5-100G	C5	22	37	150	120	150	150	80	60	18
C5-130G	C5	28	47	195	156	195	195	104	78	26.6

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.

Установка

Установка

- 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.