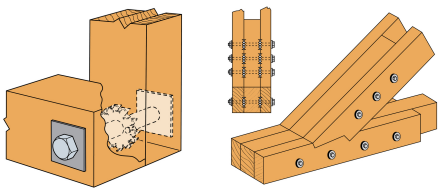
Technical Sheet

C2 - C4

Bulldog® - mellomleggsskiver, ensidige

Bulldog® mellomleggsskiver brukes til forsterkning av boltede skjøter i trekonstruksjoner. Tosidige mellomleggsskiver brukes utelukkende i tre-tre skjøter, mens ensidige skiver også kan brukes i skjøter mellom stål og tre. Bulldogskivene er produsert i henhold til EN912, der den nøyaktige geometrien til produktene fremkommer.





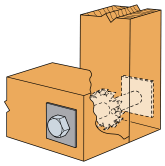


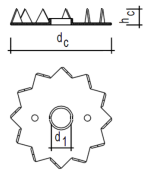
Technical Sheet

C2 - C4

Bulldog® - mellomleggsskiver, ensidige

Teknisk data





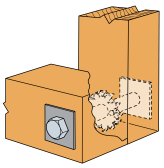
Dimensjoner - Rund ensidet C2

Referanse	beslag dimensjoner[mm]						
	annet		produktdimensjoner[mm]				
	type	NOB nr.	t[mm]	Ø (2)		høyde	
				External	Center hull	Teeth	Total
				dc[mm]	d1[mm]	h1[mm]	hc[mm]
C2-50M10G-B	C2	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	24794042	1	50	16.4	5.6	6.6
C2-50M20G-B	C2	24794059	1	50	20.4	5.6	6.6
C2-62M12G	C2	24794067	1.2	62	12.4	7.5	8.7
C2-62M12G-B	C2	-	1.2	62	12.4	7.5	8.7
C2-62M16G-B	C2	24794075	1.2	62	16.4	7.5	8.7
C2-62M20G-B	C2	24794083	1.2	62	20.4	7.5	8.7
C2-75M12G	C2	24794091	1.3	75	12.4	9.2	10.4
C2-75M12G-B	C2	-	1.3	75	12.4	9.2	10.4
C2-75M16G-B	C2	24794109	1.3	75	16.4	9.2	10.4
C2-75M18G	C2	-	1.3	75	18.4	9.2	10.4
C2-75M20G-B	C2	24794117	1.3	75	20.4	9.2	10.4
C2-75M22G	C2	24794125	1.3	75	22.4	9.2	10.4
C2-75M24G	C2	24794133	1.3	75	24.4	9.2	10.4
C2-75M26G	C2	-	1.3	75	26.4	9.2	10.4
C2-95M16G-B	C2	24794158	1.4	95	16.4	11.4	12.7
C2-95M20G-B	C2	24794166	1.4	95	20.4	11.4	12.7
C2-95M22G-B	C2	24794174	1.4	95	22.4	11.4	12.7
C2-95M24G-B	C2	24794182	1.4	95	24.4	11.4	12.7
C2-95M26G	C2	-	1.4	95	26.4	11.4	12.7
C2-117M16G	C2	24794208	1.5	117	16.4	14.5	16
C2-117M20G-B	C2	24794216	1.5	117	20.4	14.5	16
C2-117M22G-B	C2	24794224	1.5	117	22.4	14.5	16
C2-117M24G-B	C2	24794232	1.5	117	24.4	14.5	16

Technical Sheet

C2 - C4

Bulldog® - mellomleggsskiver, ensidige



Dimensjoner - Oval ensidet C4

Referanse	beslag dimensjoner[mm]								
	annet		produktdimensjoner[mm]						
	type	NOB nr.	t[mm]	a_1[mm]	a_2[mm]	Ø (2)		høyde	
						Center hull	Side hull	Teeth	Total
						d_1[mm]	d2[mm]	h_1[mm]	hc[mm]
C4-73/130M16G	C4	-	1.5	73	130	16.4	16	13.3	14.8
C4-73/130M20G-B	C4	24794265	1.5	73	130	20.4	16	13.3	14.8
C4-73/130M22G	C4	-	1.5	73	130	22.4	16	13.3	14.8
C4-73/130M24G	C4	24794281	1.5	73	130	24.4	16	13.3	14.8

Technical Sheet

C2 - C4

Bulldog® - mellomleggsskiver, ensidige

Minimum kantavstand og karakteristisk bæreevne

Referanse	beslag dimensjoner[mm]		skjær connectors kapasitet								
	annet	produktdimensjoner[mm]	Chosen tre tykkelse[mm]		minste distances[mm]						Characteristic skjær resistance (bolt resistance not included) [kN]
	type	db[mm]	t_1[mm]	t_2[mm]	avstand perpendicular to grain a_2[mm]	from loaded end $a_{3,t}$[mm]	from unloaded end $a_{3,c}$ $\alpha=90°$ [mm]	from loaded kant $a_{4,t}$ $\alpha=90°$ [mm]	from unloaded kant $a_{4,c}$[mm]	avstand 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	C2	12	23	38	75	93	93	50	38	93	8.8
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
C2-75M12G	C2	12	28	46	90	113	113	60	45	113	11.7
C2-75M12G-B	C2	12	28	46	90	113	113	60	45	113	11.7
C2-75M16G-B	C2	16	28	46	90	113	113	60	45	113	11.7
C2-75M18G	C2	18	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
C2-75M22G	C2	22	28	46	90	113	113	60	45	113	11.7
C2-75M24G	C2	24	28	46	90	113	113	60	45	113	11.7
C2-75M26G	C2	26	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
C2-95M22G-B	C2	22	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
C2-95M26G	C2	26	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

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_k 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.

Technical Sheet

C2 - C4

Bulldog® - mellomleggsskiver, ensidige

Referanse	beslag dimensjoner[mm]		skjær connectors kapasitet								
	annet	produktdimensjoner[mm]	Chosen tre tykkelse[mm]		minste distances[mm]						Characteristic skjær resistance (bolt resistance not included) [kN]
	type	db[mm]	t_1[mm]	t_2[mm]	avstand perpendicular to grain a_2[mm]	from loaded end $a_{3.t}$[mm]	from unloaded end $a_{3.c}$ $\alpha=90°$ [mm]	from loaded kant $a_{4.t}$ $\alpha=90°$ [mm]	from unloaded kant $a_{4.c}$[mm]	avstand parallel to grain a_1 $\alpha=0°$ [mm]	$R_{v,k}$[kN]
C2-117M22G-B	C2	22	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
C4-73/130M16G	C4	16	40	67	117	146	146	78	59	146	17.3
C4-73/130M20G-B	C4	20	40	67	117	146	146	78	59	146	17.3
C4-73/130M22G	C4	22	40	67	117	146	146	78	59	146	17.3
C4-73/130M24G	C4	24	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_k 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.

Montering

Monteringsveiledning

- Til fastgjøring brukes bolter M10-M24
- Skal installeres med hydraulisk verktøy (ikke bruk hammer)
- Diameteren på bolten/gjengestangen må være den samme som innvendig diameter på Bulldog

C2 - C4
Bulldog® - mellomleggsskiver, ensidige

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