

Load on C-profile 41/82/2.5 bracket					Perm. load ($F_{perm, bra}$) for bracket with dowel or anchor type used						
					Screw anchor		Fixed anchor		Injection system		
					$F_{perm}^{(1)}$ Individual anchor, at axial distance 80 mm and \geq min BK C20/25 without edge influence						
					in kN	in kN	in kN	in kN	in kN	in kN	in kN
					2.79	3.51	3.10	4.03	5.78	8.19	10.86
					W-SA ...A4 / 15 / M10	W-SA ...A4 / 15 / M12	W-FAZ / S ...A4...HRC / 15 / M10	W-FAZ / S ...A4...HRC / 15 / M12	W-VIZ / S ...A4...HRC / M10-10/85	W-VIZ / S ...A4...HRC / M12-10/110	W-VIZ / S ...A4...HRC / M12-25/145
Load cases	Bracket				Anchor						
Loading case 0 	Effect. length X+8 in mm	Type length Li in mm	Limit torque $T_{perm, bra}$ in kNm	Maximum load q_{bra} in kN/m	Anchor pull-out force F_{anc} with q_{bra} in kN	in kN/m	in kN/m	in kN/m	in kN/m	in kN/m	in kN/m
	778	750	1.41	4.76	9.5	1.37	1.73	1.53	1.98	2.85	4.03
	1023	1000	1.41	2.74	9.5	0.79	1.00	0.88	1.15	1.65	2.33
Loading case 1 	Effect. length X+8 in mm	Type length Li in mm	Limit torque $T_{perm, bra}$ in kNm	Maximum load $F_{1, bra}$ in kN	Anchor pull-out force F_{anc} with $F_{1, bra}$ in kN	in kN	in kN	in kN	in kN	in kN	in kN
	778	750	1.41	3.66	9.5	1.07	1.34	1.19	1.54	2.21	3.14
	1023	1000	1.41	2.78	9.5	0.81	1.02	0.90	1.17	1.68	2.39
Loading case 2 	Effect. length X+8 in mm	Type length Li in mm	Limit torque $T_{perm, bra}$ in kNm	Maximum load $F_{1, bra}$ in kN	Anchor pull-out force F_{anc} with $F_{1, bra}$ in kN	in kN	in kN	in kN	in kN	in kN	in kN
	778	750	1.41	1.83	9.5	0.53	0.67	0.59	0.77	1.11	1.57
	1023	1000	1.41	1.39	9.5	0.41	0.51	0.45	0.59	0.84	1.19
Loading case 3 	Effect. length X+8 in mm	Type length Li in mm	Limit torque $T_{perm, bra}$ in kNm	Maximum load $F_{2, bra}$ in kN	Anchor pull-out force F_{anc} with $F_{2, bra}$ in kN	in kN	in kN	in kN	in kN	in kN	in kN
	778	750	1.41	1.83	9.5	0.53	0.67	0.59	0.77	1.11	1.57
	1023	1000	1.41	1.39	9.5	0.41	0.51	0.45	0.59	0.84	1.19
Loading case 4 	Effect. length X+8 in mm	Type length Li in mm	Limit torque $T_{perm, bra}$ in kNm	Maximum load $F_{3, bra}$ in kN	Anchor pull-out force F_{anc} with $F_{3, bra}$ in kN	in kN	in kN	in kN	in kN	in kN	in kN
	778	750	0.53	0.46	3.5	0.36	0.45	0.40	0.46	0.46	0.46
	1023	1000	0.53	0.35	3.5	0.27	0.34	0.30	0.35	0.35	0.35

Legend:

Please note!	$F_{perm, bra}$	Reduced load values for brackets
Identical to bracket	$F_{perm, bra}$	Corresponds to the maximum load value of the brackets
Not required!	$F_{perm, bra}$	Appropriate anchor can be selected from green area
	... ¹⁾	F_{Rd} DIBt approval of dimensioning method A converted to B
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	δ_{perm}	Deflection deformation L / 100
	XXX	Stainless steel marking