







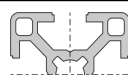

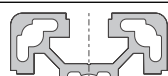
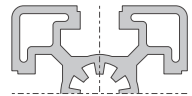



Connection elements, selection criteria

	recommended suitable unsuitable	Bracket	Inner bracket	Bolt connector	Central bolt	Quick connector	T-connector	Tensioning connector
High feed force								
High moment								
High torsional moment								
Minimal finishing work								
Minimal assembly								
Low parts costs								
Subsequent mounting in closed frame								
Adjustment possible								
Fixing of surface elements								
Internal (concealable) connection								

Profile slot load-bearing capacity

Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**



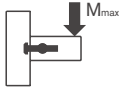

							
			T-bolt	T-nut	Central bolt	Sliding block, swivel-in	Sliding block
		20x20, 20x20R 10x40 20x40, 20x60 20x40x40	1700 N	1700 N	2000 N	–	3000 N
		30x30, 30x30R 30x30°, 30x45°, 30x60° 11x20, 15x120 30x45, 30x60, 30x60x60 30x90, 30x120	4000 N	4000 N	5000 N	2200 N	6000 N
		90x90SL 40x40L, 40x40L R 40x30°, 40x45°, 40x60° 40x80L, 40x120L, 40x160L 40x80x80L 80x80L 80x120L, 80x160L 45x45L, 45x45L R 45x30°, 45x45°, 45x60° 15x22,5 , 15x180, 22,5x45 45x90L, 45x90x90L 50x50L, 50x50L R 50x100L , 50x150L 100x100L , 100x200L 60x60L	6000 N 7000 N	6000 N 7000 N	9000 N 10000 N	8000 N 9000 N	11000 N 12000 N
		45x45 60x60 90x90L 22,5x180 45x60 45x90 , 45x180 90x180L	12000 N	12000 N	15000 N	13000 N	17000 N
		45x270 60x90 90x90 90x180 90x360	18000 N	18000 N	22000 N	18000 N	24000 N







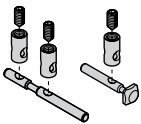
Load-bearing capacity of profile connection

The stated tightening and loading limit values were determined as an example in (dry) trials. You must take account of legal safety factors and building regulations as


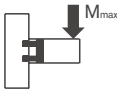













well as those corresponding to accepted engineering practices!


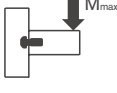








Static load limit values of the connection (beginning of plastic deformation)

		D	Groove					
		8	6 / 6	↻ 2.5 Nm	450 N	18 Nm		
		11	8 / 8	↻ 12 Nm	500 N	40 Nm		
		11	8 / 10	↻ 12 Nm	2000 N	70 Nm		
		17	10 / 10	↻ 25 Nm	4000 N	140 Nm		
	Quick connector (p. 3-53)	9.8	10 / 10	↻ 6 Nm	800 N	50 Nm		

		Groove						
	30x30	8	↻ 12 Nm	1100 N	35 Nm	24 Nm	650 N	40 Nm
	40x40L	10	↻ 25 Nm	1500 N	110 Nm	100 Nm	1000 N	80 Nm
	45x45L	10	↻ 25 Nm	1500 N	120 Nm	110 Nm	1000 N	95 Nm
	45x45	10	↻ 25 Nm	1500 N	140 Nm	145 Nm	1100 N	180 Nm
	50x50L	10	↻ 25 Nm	1500 N	150 Nm	160 Nm	1100 N	180 Nm

Quick connector, bendable (p. 3-56)

		Groove					
							
	ø11, L=30	8		6 Nm	2500 N	60 Nm	20 Nm
	ø17, L=40	10		25 Nm	4000 N	180 Nm	40 Nm
	ø17, L=45	10		25 Nm	4000 N	180 Nm	60 Nm
	ø17, L=50	10		25 Nm	4000 N	200 Nm	65 Nm
	ø17, L=60	10		25 Nm	4000 N	200 Nm	80 Nm
	ø17, L=80	10		25 Nm	5000 N	800 Nm	170 Nm
	ø17, L=90	10		25 Nm	5000 N	800 Nm	200 Nm
	ø17, L=100	10		25 Nm	5000 N	1000 Nm	480 Nm
Bolt connector (p. 3-59)	ø28, L=22.5	10		25 Nm	2000 N	-	-


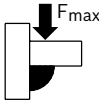
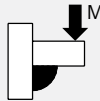
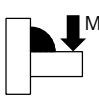
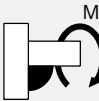
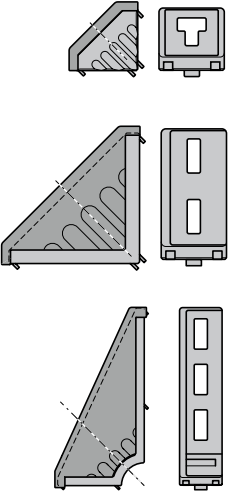



















		Groove				
						
	S6	6		10 Nm	500 N	8 Nm
	S8	8		25 Nm	800 N	43 Nm
	S12	10		35 Nm	1300 N	80 Nm
	Central bolt (p. 3-40)	M12	10		35 Nm	3000 N

		Groove						
	20/2	6	↻	10 Nm		18 Nm		
	20/3	6	↻	10 Nm			23 Nm	
	30/2	8	↻	25 Nm		80 Nm		
	30/3	8	↻	25 Nm			85 Nm	
	40/2	10	↻	35 Nm		60 Nm		
	40/3	10	↻	35 Nm			70 Nm	
	45/2		10	↻	35 Nm	45x45L	150 Nm	
						45x45	200 Nm	
	45/3		10	↻	35 Nm	45x45L		170 Nm
						45x45		240 Nm
Cubic connector (p. 3-42)	50/2	10	↻	35 Nm		120 Nm		
	50/3	10	↻	35 Nm			140 Nm	


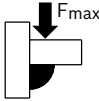
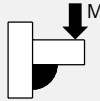
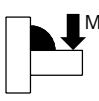
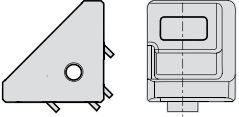




		Profile	Groove						
	SV8	30x...	8	↻	6 Nm	1000 N	35 Nm	15 Nm	
	SV 10L	45x... L	10	↻	15 Nm	3500 N	110 Nm	30 Nm	
	SV 10	40x..., 45x...	10	↻	15 Nm	3500 N	110 Nm	30 Nm	
		60x...	10	↻	15 Nm	3500 N	195 Nm	60 Nm	
Tensioning connector (p. 3-12)									

		Groove					
			8 / 8	↻	12 Nm	2200 N	50 Nm
			10 / 10	↻	15 Nm	2800 N	100 Nm
Inner bracket (p. 3-13)							


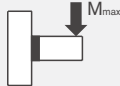
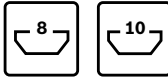
		Groove					
			6 / 6	↻	3 Nm	600 N	10 Nm
			8 / 8	↻	12 Nm	2500 N	50 Nm
			10 / 10	↻	15 Nm	3000 N	100 Nm
Inner bracket R (p. 3-14)							

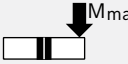

		Groove						
	20/20	6		3 Nm	700 N	6 Nm	25 Nm	–
	20/40	6		3 Nm	1400 N	15 Nm	50 Nm	8 Nm
	30/30	8		10 Nm	1250 N	25 Nm	75 Nm	–
	30/60	8		10 Nm	2500 N	100 Nm	170 Nm	25 Nm
	30/120	8		10 Nm	3750 N	100 Nm		47 Nm
	60/60-8	8		10 Nm	5000 N	320 Nm	370 Nm	110 Nm
	60/60-10	10		25 Nm	3000 N	125 Nm	150 Nm	–
	40/40	10		25 Nm	3000 N	55 Nm	145 Nm	35 Nm
	40/80	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	40/160	10		25 Nm	9000 N	250 Nm		60 Nm
	80/80	10		25 Nm	14000 N	500 Nm	1000 Nm	400 Nm
	45/45	10		25 Nm	3000 N	60 Nm	160 Nm	–
	45/90	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	45/180	10		25 Nm	9000 N	250 Nm		65 Nm
	90/90	10		25 Nm	12000 N	370 Nm	800 Nm	200 Nm
	43x42	10		25 Nm	2000 N	–	160 Nm	–
	50/50	10		25 Nm	4000 N	125 Nm	250 Nm	38 Nm
	50/100	10		25 Nm	7500 N	300 Nm	600 Nm	73 Nm
	100/100	10		25 Nm	15000 N	550 Nm	1100 Nm	480 Nm

Bracket (p. 3-17)

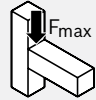
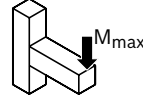
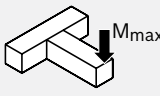


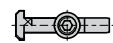
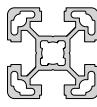

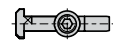
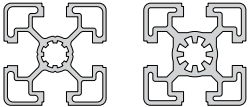

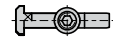
		Groove					
	S 20x20	6		2.5 Nm	700 N	3.6 Nm	25 Nm
	S 30x30	8		8.5 Nm	1250 N	16 Nm	75 Nm
	S 40x40	10		25 Nm	3000 N	36 Nm	160 Nm
	S 45x45	10		25 Nm	3000 N	36 Nm	160 Nm

Bracket S (p. 7-8)

		Groove				
		30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)	4000 N	80 Nm
		40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	150 Nm
		45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	200 Nm
		50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)	10000 N	170 Nm
T-connector (p. 3-50)						

		Groove				
		30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)		81 Nm
		40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)		170 Nm
		45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)		200 Nm
		50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)		180 Nm
End connector (p. 3-48)						

Profile connection load-bearing capacity with radial compensation (p. 2-85)

		Groove						
	30x30		S8	8	↻ 25 Nm	600 N	37 Nm	28 Nm
				8 / 8	↻ 12 Nm	600 N	37 Nm	28 Nm
	40x40		M12 S12	10	↻ 30 Nm	1000 N	47 Nm	55 Nm
				10 / 10	↻ 22 Nm	1000 N	47 Nm	55 Nm
	45x45		S12 M12	10	↻ 35 Nm	1200 N	53 Nm	59 Nm
				10 / 10	↻ 25 Nm	1200 N	53 Nm	59 Nm