

# STEEL C PROFILES

Regardless of the fastening method chosen, you should design your plant so that the material can expand. The easiest and most efficient fastening method is to fasten the guide using our steel C profiles. Unlike metals, thermoplastics are particularly predisposed to an increase/reduction in length when temperature variations occur. Mounting a guide in a steel C profile makes sense because of the freedom of movement afforded to the slide bar. This method also makes it easy to replace plastic guides. Steel C profiles also act as stable fasteners and can be welded or screwed on as required. We recommend the use of DIN screws or special assembly using T-head bolts (see page 66). We also offer fixing of steel C profiles with stud welding bolts.

## AVAILABLE VARIANTS

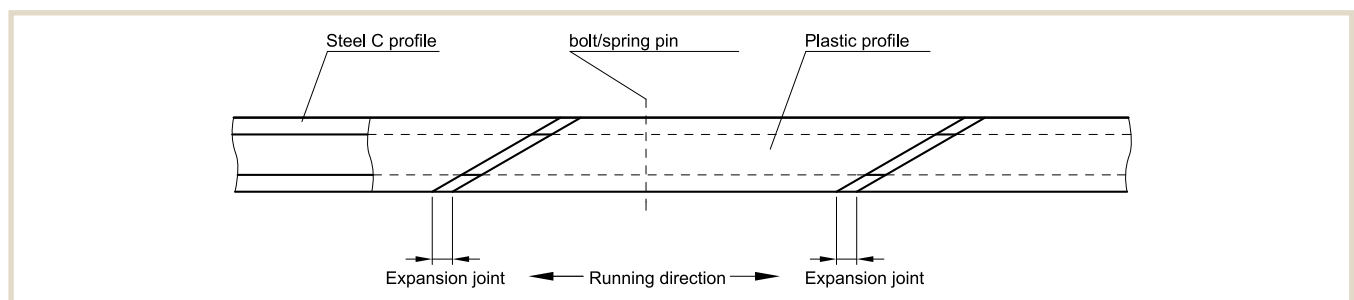
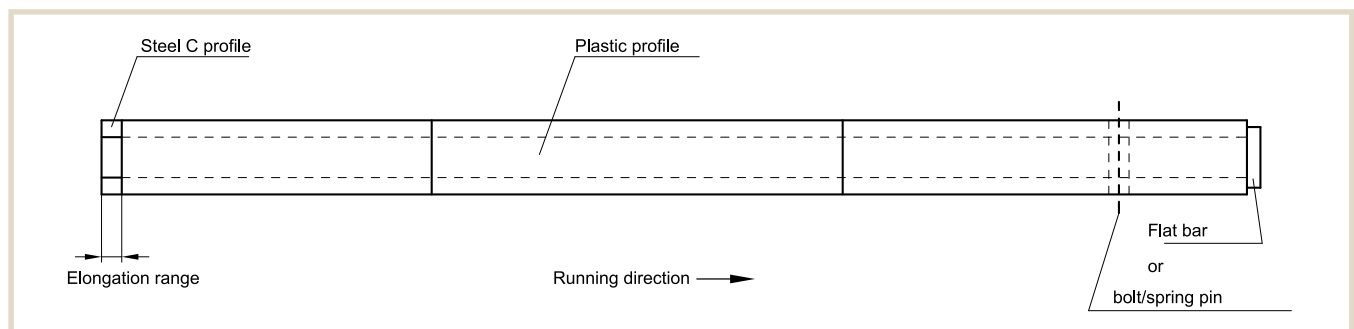
- Galvanized (Stocked)
- Stainless steel (Stocked)
- Untreated/nongalvanized (upon request)

## The advantages of Murtfeldt steel C profiles

- Simple assembly/disassembly of the guide system
- Quick replacement procedure if wear occurs
- Plastic profiles only need to be secured against being pushed out once
- Simple alignment of the guide system
- No distortion occurs when mounting the steel C profile if screws are used
- Guide can increase/decrease in length if temperature variations occur

## Single or varying chain/belt/cargo direction

When expansion takes place, the plastic guide moves up in the opposite direction to the running/conveying direction. You should therefore make sure that sufficient space for the anticipated expansion is provided at the start of the plastic guide.



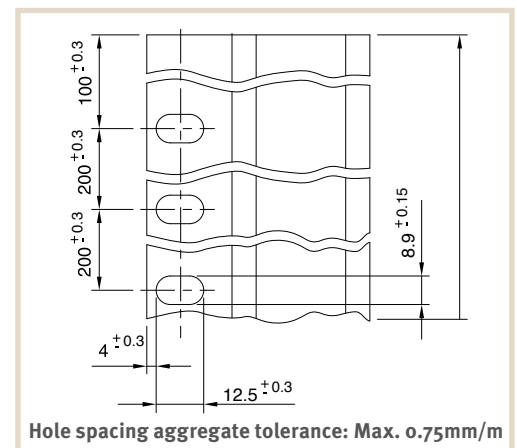
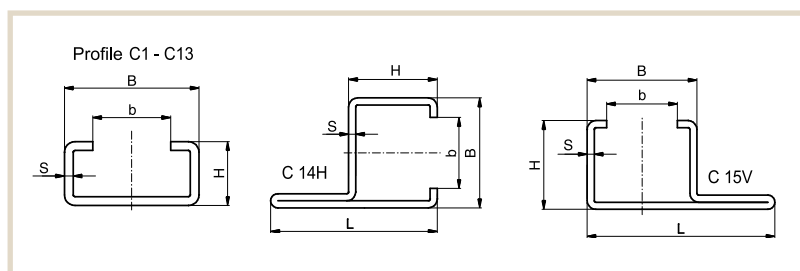
# SELECTION TABLE

Galvanized, untreated/nongalvanized or stainless steel C profiles

Profile No.	B	H	b	s	L	Length	Article no. galvanized	Article no. stainless steel	Article no. nongalvanized
C1	24	5.2	17.5	1	-	2000	351 020 001	351 020 101	
						3000	351 030 001	351 030 101	
						6000	351 060 001	351 060 101	
C3	20	10	10	1.5	-	2000	351 020 003	351 020 103	
						3000	351 030 003	351 030 103	
						6000	351 060 003	351 060 103	351 060 203
C4	50	10	35	2	-	2000	351 020 004	351 020 104	
						6000	351 060 004	351 060 104	
C5	28	12	14	2	-	2000	351 020 005	351 020 105	
						3000	351 030 005	351 030 105	
						6000	351 060 005	351 060 105	351 060 205
C6	80	10	65	2	-	2000	351 020 006	351 020 106	
						6000	351 060 006	351 060 106	
C7	28	16	14	2.5	-	2000	351 020 007	351 020 107	
						6000	351 060 007	351 060 107	351 060 207
C9	38	18	22	2.5	-	2000	351 020 009	351 020 109	
						3000	351 030 009	351 030 109	
						6000	351 060 009	351 060 109	351 060 209
C10	30	24	20	1.5	-	2000	351 020 010	351 020 110	
						6000	351 060 010	351 060 110	351 060 210
C11	45	40	31	2	-	2000	351 020 011	351 020 111	
						6000	351 060 011	351 060 111	351 060 211
C12	60	20	36	2.5	-	2000	351 020 012	351 020 112	
						6000	351 060 012	351 060 112	
C13	65	55	40	3	-	2000	351 020 013	351 020 113	
						6000	351 060 013	351 060 113	
C14 H	31	25	20	2	47	2000	351 020 014	351 020 114	
						3000	351 030 014	351 030 114	
						6000	351 060 014	351 060 114	
C15 V	31	25	20	2	53	2000	351 020 015	351 020 115	
						3000	351 030 015	351 030 115	
						6000	351 060 015	351 060 115	

Dimensions in mm

## C 14H and C 15V steel profiles with punch hole in mounting rail



# FASTENING OF STEEL C PROFILES

## With T-head bolts

T-head bolts provide a secure connection between your machine element and our C profiles. As a rule, a simplex connection is used. Duplex connections are available if desired. Our application technology department will be glad to advise you to ensure that you obtain the best implementation for your requirements.

We can bore or punch individual hole patterns if you provide us with an appropriate drawing. For T-head bolt dimensions, see the following page.

---

■ Milled groove for bolt head prevents simultaneous turning of T-head bolt

---

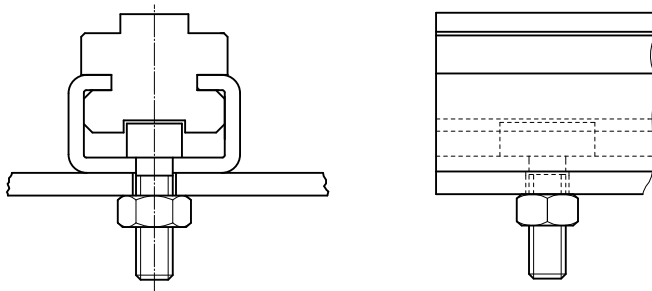
■ Fastening of screw nuts from below (with T-head bolts)

---

■ Punching and boring of required hole pattern in accordance with individual drawings

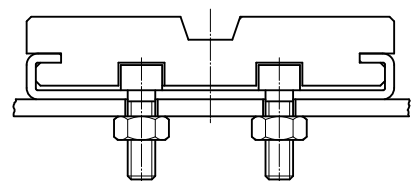
---

### One-track fastening (standard)



### Two-track fastening

(optional for wide C6 and C12 profiles)



# T-HEAD BOLTS

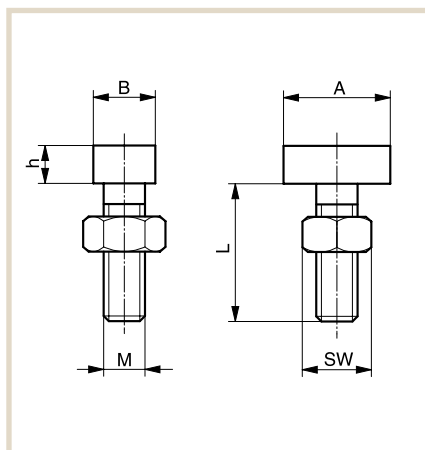
Galvanized/stainless steel

Thread (M x L)	Suitable for these steel C profiles	A in mm	B in mm	h in mm	Material	Article no.	Type
M6x20	C1, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13	18.0	9.5	4	galvanized	352010001	-
M6x20	C1, C4, C5, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010005	20/12
M6x30	C1, C4, C5, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010003	20/12
M6x40	C1, C4, C5, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010004	20/12
M8x20	C4, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010008	20/12
M8x30	C4, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010006	20/12
M8x40	C4, C6, C7, C9, C12	15.5	9.0	6	galvanized	352010007	20/12
M8x20	C4, C6, C7, C9, C12	23.0	11.0	6	galvanized	352010011	28/15
M8x30	C4, C6, C7, C9, C12	23.0	11.0	6	galvanized	352010019	28/15
M8x40	C4, C6, C7, C9, C12	23.0	11.0	6	galvanized	352010014	28/15
M10x20	C4, C6, C7, C9, C11, C12, C13	23.0	11.0	7	galvanized	352010020	28/15
M10x30	C4, C6, C7, C9, C11, C12, C13	23.0	11.0	7	galvanized	352010012	28/15
M10x40	C4, C6, C7, C9, C11, C12, C13	23.0	11.0	7	galvanized	352010013	28/15
M10x20	C6, C9, C12	31.0	13.5	9	galvanized	352010015	38/17
M10x30	C6, C9, C12	31.0	13.5	9	galvanized	352010016	38/17
M12x40	C6, C11, C12, C13	31.0	13.5	9	galvanized	352010017	38/17

M6x20	C1, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13	18.0	9.5	4	stainless steel	352010002	-
M8x20	C4, C6, C7, C9, C12	15.5	9.0	6	stainless steel	352010025	20/12
M8x30	C4, C6, C7, C9, C12	15.5	9.0	6	stainless steel	352010026	20/12

Please speak with our application technology department to determine the best T-head screw for your needs. We can provide the appropriate models including nuts for one-track and two-track connections.



# FIXING THE STEEL C-PROFILE WITH STUD WELDING BOLTS TECHNOLOGY



- Individual fixing of the welded bolt to your specification at any position on the steel-C-profile
- Cost-effective process as no need for complex preparatory work
- Available for galvanized and stainless steel profiles
- Threaded bolts up to M8
- Max. bolt length 40 mm

Thread size	Length	Material
M4	12	stainless steel
M5	8	stainless steel
M5	20	stainless steel
M5	20	steel
M6	25	stainless steel
M6	25	steel
M8	15	stainless steel
M8	15	steel
M8	20	stainless steel
M8	20	steel
M8	30	stainless steel
M8	30	steel

Other dimensions on request.

