POLY HI SOLIDUR

solidur® plastic components for drive and conveyor systems

Finished plastic parts

POLY HI SOLIDUR WORLDWIDE

POLY HI
SOLIDUR
WORLDWIDE

CONTENT

STRONG PARTNERS FOR ENGINEERING POLYMERS AND COMPONENTS

solidur® components for drive and conveyor systems

With its "solidur® green" [PE-UHMW] Poly Hi Solidur has helped develop many new applications in drive and conveyor technology over the past decades. With very high abrasion resistance as well as outstanding sliding properties and strength, "solidur® green" has established itself as a preferred material in drive and conveyor systems. Today, the solidur® brand represents Poly Hi Solidur's components for drive and conveyor systems.

solidur® components for drive and conveyor systems include:

solidur® chain guides | solidur® belt guides
solidur® sliding guides | Steel C profils | solidur® neck guides
solidur® tape material and profils | solidur® corner wear bends

solidur® components are based on materials from the TIVAR® product family. The product range includes the following proven materials:

TIVAR® 1000 green, compression moulded [PE-UHMW acc. to DIN 16972, TG1 | TG2]
TIVAR® 1000 green with reprocessed content [PE-UHMW] with attractive price-to-performance ratio
TIVAR® 1000 black anti-static, compression moulded [PE-UHMW acc. to DIN 16972, TG1 | TG2]

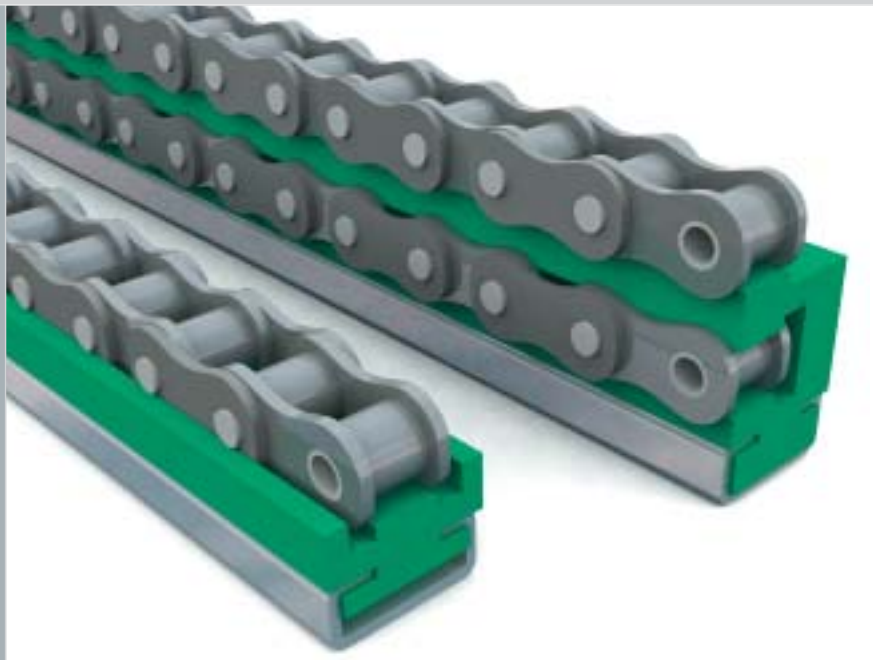
Additional modified and optimised TIVAR® materials [based on PE-UHMW] are available for specific applications and conditions.

TIVAR® 1000	[PE-UHMW, colours: natural | blue | yellow | red | grey]
TIVAR® 1000 anti-static	[PE-UHMW, anti static]
TIVAR® 1000 UV-stabilised	[PE-UHMW, UV-stabilised]
TIVAR® 1000 anti-microbial	[PE-UHMW, anti-microbial]
TIVAR® 1000 MoS_2	[PE-UHMW, with MoS_2 as solid lubricant]
TIVAR® Ceram P	[modified PE-UHMW, wear-optimised]
TIVAR® SuperPlus	[modified PE-UHMW, partially cross-linked, wear-optimised]
TIVAR® Special DS	[modified PE-UHMW, optimised wear and sliding properties]
TIVAR® DrySlide	[modified PE-UHMW, optimised wear and sliding properties]
TIVAR® Oil Filled	[modified PE-UHMW, oil filled, self-lubricating]
TIVAR® CleanStat	[modified PE-UHMW, anti-static and approved for the food industry EU | FDA]
TIVAR® H.O.T.	[modified PE-UHMW, oxidation-retardent, higher thermal resistance]

Additional solidur® component types made of other technical plastics [especially PA 6 G and PA 6 G + oil] are also available.

The TIVAR® materials used for these products are manufactured using the latest compression moulding and RAM extrusion technology.

Our expertise in technical materials and our cutting-edge production facilities are the foundation for the superior functional performance, quality, and economic advantages of TIVAR® materials.



Poly Hi Solidur provides chain guides for roller chains [DIN 8187] and round-link chains [DIN 766/764]. Product types with steel C profiles [galvanized, stainless steel] are also available.

[Materials]

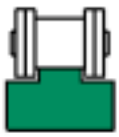
TIVAR® 1000 green, compression moulded [PE-UHMW acc. to DIN 16972, TG1 | TG2]
TIVAR® 1000 green with reprocessed content [PE-UHMW] with attractive price-to-performance ratio

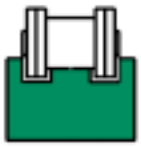
Additional materials for different applications and conditions:
TIVAR® 1000 anti-static
TIVAR® CleanStat
TIVAR® 1000 MoS_2
TIVAR® Oil Filled
TIVAR® DrySlide
TIVAR® Ceram P
TIVAR® SuperPlus
PA 6 G and PA 6 G + oil

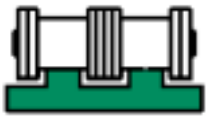
[Properties based on TIVAR® materials]

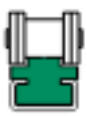
Extremely high abrasion resistance
Very good sliding properties
Self-lubricating
Good vibration and noise absorption
High impact and fracture strength
High chemical resistance, no corrosion
No moisture absorption
Approved for the food industry in accordance with EU plastics guideline
[TIVAR® 1000 green, TIVAR® 1000 anti-static, TIVAR® CleanStat, TIVAR® Oil Filled, TIVAR® Ceram P]

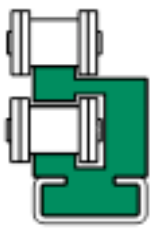
The standard product range comprises 14 basic types in different variants. The high-grade materials TIVAR® 1000 green, compression moulded [PE-UHMW following DIN 16972, TG1 | TG2] and TIVAR® 1000 green with reprocessed content [PE-UHMW, with attractive price-to-performance ratio] are part of the standard product range. Other materials are used for different applications and conditions.





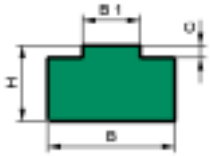


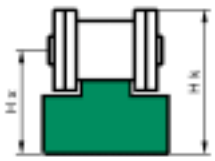




TYPE T

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]





Chain [DIN 8187]	Pitch	B [mm]	H [mm]	B1 [mm]	C [mm]	Hx [mm]	Hk [mm]	Article no.
06B-1	3/8" x 7/32"	15	10	5.5	1.5	13.2	17.3	T 06B-1 10.2.1
08B-1	1/2" x 5/16"	20	10	7.5	2.2	14.3	20.2	T 08B-1 10.2.1
08B-1	1/2" x 5/16"	20	15	7.5	2.2	19.3	25.2	T 08B-1 15.2.1
08B-1	1/2" x 5/16"	20	20	7.5	2.2	24.3	30.2	T 08B-1 20.2.1
08B-1	1/2" x 5/16"	20	30	7.5	2.2	34.3	40.2	T 08B-1 30.2.1
10B-1	5/8" x 3/8"	20	10	9.3	2.6	15.1	22.4	T 10B-1 10.2.1
10B-1	5/8" x 3/8"	20	15	9.3	2.6	20.1	27.4	T 10B-1 15.2.1
10B-1	5/8" x 3/8"	20	20	9.3	2.6	25.1	32.4	T 10B-1 20.2.1
10B-1	5/8" x 3/8"	20	30	9.3	2.6	35.1	42.4	T 10B-1 30.2.1
12B-1	3/4" x 7/16"	25	10	11.3	2.4	16.0	24.1	T 12B-1 10.2.1
12B-1	3/4" x 7/16"	25	15	11.3	2.4	21.0	29.1	T 12B-1 15.2.1
12B-1	3/4" x 7/16"	25	20	11.3	2.4	26.0	34.1	T 12B-1 20.2.1
12B-1	3/4" x 7/16"	25	30	11.3	2.4	36.0	44.1	T 12B-1 30.2.1
16B-1	1" x 17 mm	40	15	16.5	3.5	22.9	33.4	T 16B-1 15.2.1
16B-1	1" x 17 mm	40	20	16.5	3.5	27.9	38.4	T 16B-1 20.2.1
16B-1	1" x 17 mm	40	30	16.5	3.5	37.9	48.4	T 16B-1 30.2.1
20B-1	1 1/4" x 3/4"	45	15	19	4.2	24.5	37.7	T 20B-1 15.2.1
24B-1	1 1/2" x 1"	60	15	24.7	5.5	27.7	44.4	T 24B-1 15.2.1
28B-1	1 3/4" x 31 mm	75	20	30.1	6.8	34.0	52.5	T 28B-1 20.2.1
32B-1	2" x 31 mm	80	20	30.1	7.7	34.6	55.7	T 32B-1 20.2.1

Materials: TIVAR® 1000 green with reprocessed content, TIVAR® 1000 green, additional materials for different applications and conditions
Sliding finish: Top Finish
Standard length: 2000 mm
Tolerances in accordance with DIN 2768 [plastic profile cross-section],
see pp. 22 | 23 for dimensions and tolerances of steel C profiles.

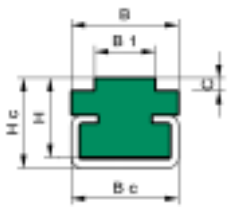
Article number code: example: T | 06B-1 | 12 | 2 | 1

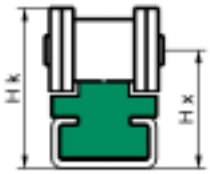
- T — Chain guide type
- 06B-1 — Chain designation following DIN 8187
- 12 — Height of plastic profile in mm
- 2 — Chain guide length 2000 mm
  [or: 3 = 3000 mm, 6 = 6000 mm]
- 1 — Material TIVAR® 1000 green with reprocessed content
  [or: 0 = TIVAR® 1000 green]

Without steel C profile, article no.: see pp. 22 | 23 for steel C profiles
Special dimensions and additional variants available on request!

TYPE CT

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]

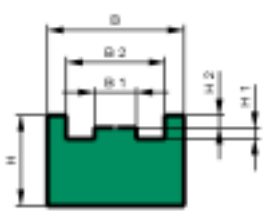


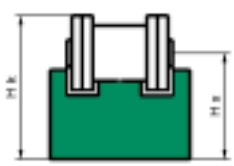


Chain [DIN 8187]	Pitch	B [mm]	H [mm]	Hc [mm]	BC [mm]	B1 [mm]	C [mm]	C-profile [type]	Hx [mm]	Hk [mm]	Article no.
06B-1	3/8" x 7/32"	15	15	17	20	5.5	1.5	C03	20.2	24.3	CT 06B-1 15.2.1
08B-1	1/2" x 5/16"	20	9	11	24	7.5	2.2	C01	15.3	21.2	CT 08B-1 09.2.1
08B-1	1/2" x 5/16"	17	15	17	20	7.5	2.2	C03	21.3	27.2	CT 08B-1 15.2.1
10B-1	5/8" x 3/8"	17	15	17	20	9.3	2.6	C03	22.1	29.4	CT 10B-1 15.2.1
12B-1	3/4" x 7/16"	20	14	17	20	11.3	2.4	C03	23.0	31.1	CT 12B-1 14.2.1
12B-1	3/4" x 7/16"	24	15	18	28	11.3	2.4	C05	24.0	32.1	CT 12B-1 15.2.1
16B-1	1" x 17 mm	24	15	18	28	16.5	3.5	C05	25.9	36.4	CT 16B-1 15.2.1
20B-1	1 1/4" x 3/4"	28	15	18	28	19.0	4.2	C05	27.5	40.7	CT 20B-1 15.2.1
24B-1	1 1/2" x 1"	33	25	30	38	24.7	5.5	C09	42.7	59.4	CT 24B-1 25.2.1
28B-1	1 3/4" x 31 mm	38	25	30	38	30.1	6.8	C09	44.0	62.5	CT 28B-1 25.2.1
32B-1	2" x 31 mm	38	25	30	38	30.1	7.7	C09	44.6	65.7	CT 32B-1 25.2.1

TYPE TS

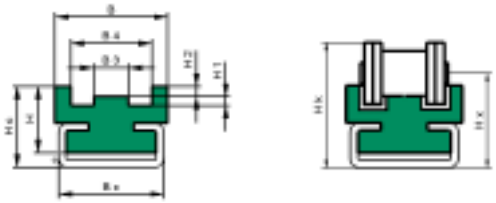
Chain [DIN 8187]	Pitch	B [mm]	H [mm]	B1 [mm]	B2 [mm]	H1 [mm]	H2 [mm]	Hx [mm]	Hk [mm]	Article no.
06B-1	3/8" x 7/32"	20	10	5.5	12.9	1.5	0.8	12.4	16.5	TS 06B-1 10.2.1
08B-1	1/2" x 5/16"	25	15	7.5	16.3	2.2	1.6	17.7	23.6	TS 08B-1 15.2.1
10B-1	5/8" x 3/8"	28	15	9.3	19.2	2.6	2.1	18.0	25.3	TS 10B-1 15.2.1
12B-1	3/4" x 7/16"	30	20	11.3	21.8	2.4	2.8	23.2	31.3	TS 12B-1 20.2.1
16B-1	1" x 17 mm	42	25	16.5	35.2	3.5	3.3	29.6	40.1	TS 16B-1 25.2.1
20B-1	1 1/4" x 3/4"	50	25	19	40	4.2	4	35.5	48.7	TS 20B-1 25.2.1



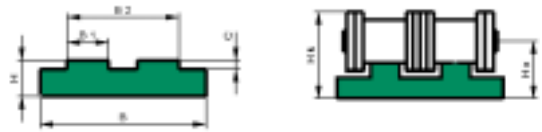


TYPE CTS

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]



Chain [DIN 8187]	Pitch	B [mm]	Bc [mm]	H [mm]	Hc [mm]	B3 [mm]	B4 [mm]	H1 [mm]	H2 [mm]	C pro. [type]	Hx [mm]	Hk [mm]	Article no.
06B-1	3/8" x 7/32"	20	20	14	17	4	12.9	1.5	0.8	C03	19.4	23.5	CTS 06B-1 14.2.1
08B-1	1/2" x 5/16"	25	20	16	20	5.7	16.3	2.2	1.6	C03	22.7	28.6	CTS 08B-1 16.2.1
10B-1	5/8" x 3/8"	28	28	16	20	7.5	19.2	2.6	2.1	C05	23.0	30.3	CTS 10B-1 16.2.1
12B-1	3/4" x 7/16"	30	28	18	22	9.2	21.8	2.4	2.8	C05	25.2	33.3	CTS 12B-1 18.2.1
16B-1	1" x 17 mm	42	38	25	30	16.5	35.2	3.5	3.3	C09	34.6	45.1	CTS 16B-1 25.2.1
20B-1	1 1/4" x 3/4"	50	38	30	35	19	40	4.2	4	C09	40.5	53.7	CTS 20B-1 30.2.1

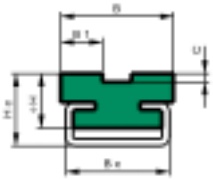


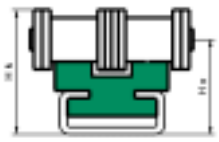
TYPE TD

Chain [DIN 8187]	Pitch	B [mm]	H [mm]	B1 [mm]	B2 [mm]	C [mm]	Hx [mm]	Hk [mm]	Article no.
06B-2	3/8" x 7/32"	25	10	5.5	15.6	1.5	13.2	17.3	TD 06B-2 10.2.1
08B-2	1/2" x 5/16"	35	10	7.4	21.2	2.2	14.3	20.2	TD 08B-2 10.2.1
08B-2	1/2" x 5/16"	35	15	7.4	21.2	2.2	19.3	25.2	TD 08B-2 15.2.1
08B-2	1/2" x 5/16"	35	20	7.4	21.2	2.2	24.3	30.2	TD 08B-2 20.2.1
08B-2	1/2" x 5/16"	35	30	7.4	21.2	2.2	34.3	40.2	TD 08B-2 30.2.1
10B-2	5/8" x 3/8"	40	10	9.3	25.6	2.6	15.1	22.4	TD 10B-2 10.2.1
12B-2	3/4" x 7/16"	45	10	11.3	30.4	2.4	16	24.1	TD 12B-2 10.2.1
12B-2	3/4" x 7/16"	45	15	11.3	30.4	2.4	21	29.1	TD 12B-2 15.2.1
16B-2	1" x 17 mm	48	15	16.2	48	3.5	22.9	33.4	TD 16B-2 15.2.1
20B-2	1 1/4" x 3/4"	55	15	19	55	4.2	24.5	37.7	TD 20B-2 15.2.1
24B-2	1 1/2" x 1"	72	20	24.7	72	5.5	32.7	49.4	TD 24B-2 20.2.1
28B-2	1 3/4" x 31 mm	89	25	29.7	89	6.8	39	57.5	TD 28B-2 25.2.1
32B-2	2" x 31 mm	88	25	29.7	88	7.7	39.6	60.7	TD 32B-2 25.2.1

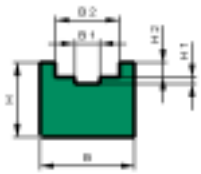
TYPE CTD

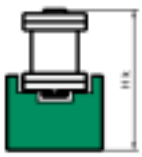
solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]





Chain [DIN 8187]	Pitch	B [mm]	H [mm]	Hc [mm]	B1 [mm]	Bc [mm]	C [mm]	C pro. [type]	Hx [mm]	Hk [mm]	Article no.
06B-2	3/8" x 7/32"	15.7	14	17	5.5	20	1.5	C03	20.2	24.3	CTD 06B-2 14.2.1
08B-2	1/2" x 5/16"	21.2	15	17	7.5	20	2.2	C03	21.3	27.2	CTD 08B-2 15.2.1
10B-2	5/8" x 5/16"	25.6	15	17	9.3	20	2.6	C03	22.1	29.4	CTD 10B-2 15.2.1
12B-2	3/4" x 7/16"	30.7	15	20	11.3	28	2.4	C05	26.0	34.1	CTD 12B-2 15.2.1
16B-2	1" x 7 mm	48	20	27	16.5	38	3.5	C09	34.9	45.4	CTD 16B-2 20.2.1
20B-2	1 1/4" x 3/4"	55	25	30	19	60	4.3	C12	39.5	52.7	CTD 20B-2 25.2.1
24B-2	1 1/2" x 1"	72	30	35	24.7	60	5.5	C12	47.7	64.4	CTD 24B-2 30.2.1



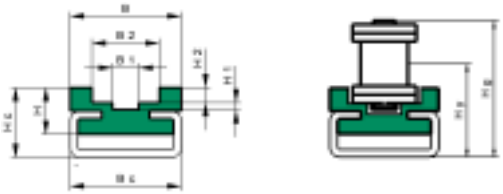


TYPE U

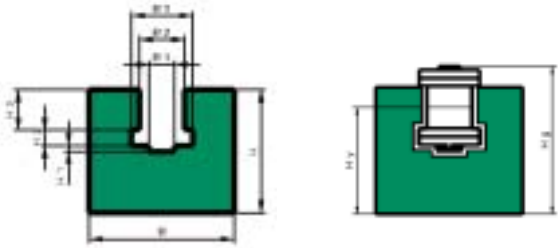
Chain [DIN 8187]	Pitch	B [mm]	H [mm]	B1 [mm]	B2 [mm]	H1 [mm]	H2 [mm]	Hy [mm]	Hg [mm]	Article no.
06B-1	3/8" x 7/32"	20	15	4	9,2	1.3	2.8	17.9	24.4	U 06B-1 15.2.1
08B-1	1/2" x 5/16"	25	15	5	12.8	1.3	3.5	19	27.1	U 08B-1 15.2.1
10B-1	5/8" x 3/8"	25	15	6	15.4	1.5	3.6	19.9	29.2	U 10B-1 15.2.1
12B-1	3/4" x 7/16"	25	20	7	16.9	1.8	3.9	25.9	36.9	U 12B-1 20.2.1
16B-1	1" x 17 mm	35	25	9	22	1.6	8.4	33.6	50.3	U 16B-1 25.2.1
20B-1	1 1/4" x 3/4"	55	25	11	27.5	2.6	10	34.3	54.4	U 20B-1 25.2.1
24B-1	1 1/2" x 1"	60	30	16	35	2.6	13	40.2	66.9	U 24B-1 30.2.1
28B-1	1 3/4" x 31 mm	65	30	17	39	2.6	16	43.5	76.0	U 28B-1 30.2.1
32B-1	2" x 31 mm	70	30	19	44	5.0	16	42.5	76.2	U 32B-1 30.2.1

TYPE CU

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]



Chain [DIN 8187]	Pitch	B [mm]	H [mm]	Hc [mm]	Bc [mm]	B1 [mm]	B2 [mm]	H1 [mm]	H2 [mm]	C pro. [type]	Hy [mm]	Hg [mm]	Article no.
06B-1	3/8" x 7/32"	20	14	17	20	4	9,2	1,3	2,8	C03	19,9	26,4	CU 06B-1 14.2.1
08B-1	1/2" x 5/16"	20	14	18	20	5	12.8	1.3	3.5	C03	22	30.1	CU 08B-1 14.2.1
10B-1	5/8" x 3/8"	24	12	18	28	6	15,4	1,5	3,6	C05	22,9	32	CU 10B-1 12.2.1
12B-1	3/4" x 7/16"	24	12	18	28	7	16.9	1.8	3.9	C05	23.9	34.7	CU 12B-1 12.2.1
16B-1	1" x 17 mm	33	20	30	38	9	22	1,6	8,4	C09	38,6	55,1	CU 16B-1 20.2.1
20B-1	1 1/4" x 3/4"	60	25	35	60	11	27.5	2.6	10	C12	44.3	63.1	CU 20B-1 25.2.1
24B-1	1 1/2" x 1"	60	30	40	60	16	35	2,6	13	C12	52,4	76,9	CU 24B-1 30.2.1
28B-1	1 3/4" x 31 mm	50	38	45	60	17	39	2.6	16	C12	60.2	90.3	CU 28B-1 38.2.1
32B-1	2" x 31 mm	70	38	45	60	19	44	5	16	C12	59,2	89,7	CU 32B-1 38.2.1

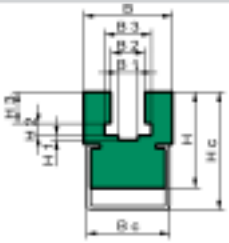


TYPE K

Chain [DIN 8187]	Pitch	B [mm]	H [mm]	B1 [mm]	B2 [mm]	B3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	Hy [mm]	Hg [mm]	Article no.
06B-1	3/8" x 7/32"	20	25	4	6,6	9,2	1,3	3,5	5,5	21,6	28,4	K 06B-1 25.2.1
08B-1	1/2" x 5/16"	24	30	5	8.8	12.8	1.3	4.1	7.4	26.1	34.6	K 08B-1 30.2.1
10B-1	5/8" x 3/8"	30	35	6	10,4	15,4	1,5	4,2	9,3	30,2	40	K 10B-1 35.2.1
12B-1	3/4" x 7/16"	40	35	7	12.3	16.9	1.8	4.6	11.3	29.2	40.6	K 12B-1 35.2.1
16B-1	1" x 17 mm	40	45	9	16,1	22	1,6	9	16	36,5	54,6	K 16B-1 45.2.1
20B-1	1 1/4" x 3/4"	50	50	11	19.3	27.5	2.6	11	18	40.2	61.8	K 20B-1 50.2.1
24B-1	1 1/2" x 1"	60	60	16	25,7	35	2,6	13,8	24	47,3	74	K 24B-1 60.2.1
28B-1	1 3/4" x 31 mm	60	70	17	28.3	39	2.6	17	30	54.5	87.1	K 28B-1 70.2.1
32B-1	2" x 31 mm	70	75	19	29,6	44	5	17	30	59,5	93,2	K 32B-1 75.2.1

TYPE CK

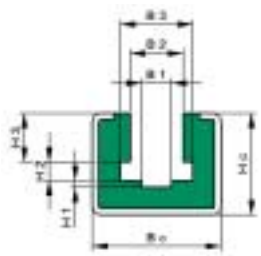
solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]



Chain [DIN 8187]	Pitch	B [mm]	H [mm]	Bc [mm]	Hc [mm]	B1 [mm]	B2 [mm]	B3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	C pro. [type]	Hy [mm]	Hg [mm]	Article no.
06B-1	3/8" x 7/32"	20	18	20	21	4	6,6	9,2	1,3	3,5	5,5	C03	18,1	24,9	CK 06B-1 18.2.1
08B-1	1/2" x 5/16"	24	28	28	32	5	8.8	12.8	1.3	4.1	7.4	C07	28.1	36.6	CK 08B-1 28.2.1
10B-1	5/8" x 3/8"	24	28	28	32	6	10,4	15,4	1,5	4,2	9,3	C07	27,2	37	CK 10B-1 28.2.1
12B-1	3/4" x 7/16"	32	35	38	43	7	12.3	16.9	1.8	4.6	11.3	C09	37.2	48.5	CK 12B-1 35.2.1
16B-1	1" x 17 mm	40	45	38	50	9	16,1	22	1,6	9	16	C09	41,5	59,5	CK 16B-1 45.2.1
20B-1	1 1/4" x 3/4"	60	50	60	55	11	19.3	27.5	2.6	11	18	C12	45.2	66.8	CK 20B-1 50.2.1
24B-1	1 1/2" x 1"	60	60	60	65	16	25,7	35	2,6	13,8	24	C12	52,3	79	CK 24B-1 60.2.1
28B-1	1 3/4" x 31 mm	70	75	60	80	17	28.3	39	2.6	17	30	C12	64.5	97.1	CK 28B-1 75.2.1
32B-1	2" x 31 mm	70	75	60	80	19	29,6	44	5	17	30	C12	64,5	98,2	CK 32B-1 75.2.1

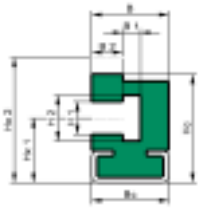
TYPE CKG

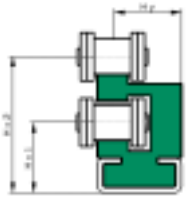
Chain [DIN 8187]	Pitch	Bc [mm]	Hc [mm]	B1 [mm]	B2 [mm]	B3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	C pro. [type]	Hy [mm]	Hg [mm]	Article no.
06B-1	3/8" x 7/32"	30	24	4	6,6	9,2	1,3	3,5	5,5	C10	21,1	27,9	CKG 06B-1 24.2.1
08B-1	1/2" x 5/16"	30	24	5	8.8	12.8	1.3	4.1	7.4	C10	20.1	28.6	CKG 08B-1 24.2.1
10B-1	5/8" x 3/8"	30	24	6	10,4	15,4	1,5	4,2	9,3	C10	19,2	29	CKG 10B-1 24.2.1
12B-1	3/4" x 7/16"	30	24	7	12.3	16.9	1.8	4.6	11.3	C10	18.2	29.5	CKG 12B-1 24.2.1
16B-1	1" x 17 mm	45	40	9	16,1	22	1,6	9	16	C11	31,5	49,5	CKG 16B-1 40.2.1
20B-1	1 1/4" x 3/4"	45	40	11	19.3	27.5	2.6	11	18	C11	30.2	51.8	CKG 20B-1 40.2.1
24B-1	1 1/2" x 1"	65	55	16	25,7	35	2,6	13,8	24	C13	42,3	69	CKG 24B-1 55.2.1
28B-1	1 3/4" x 31 mm	65	60	17	28.3	39	2.6	17	30	C13	44.5	77.1	CKG 28B-1 60.2.1
32B-1	2" x 31 mm	65	60	19	29,6	44	5	17	30	C13	44,5	79,2	CKG 32B-1 60.2.1



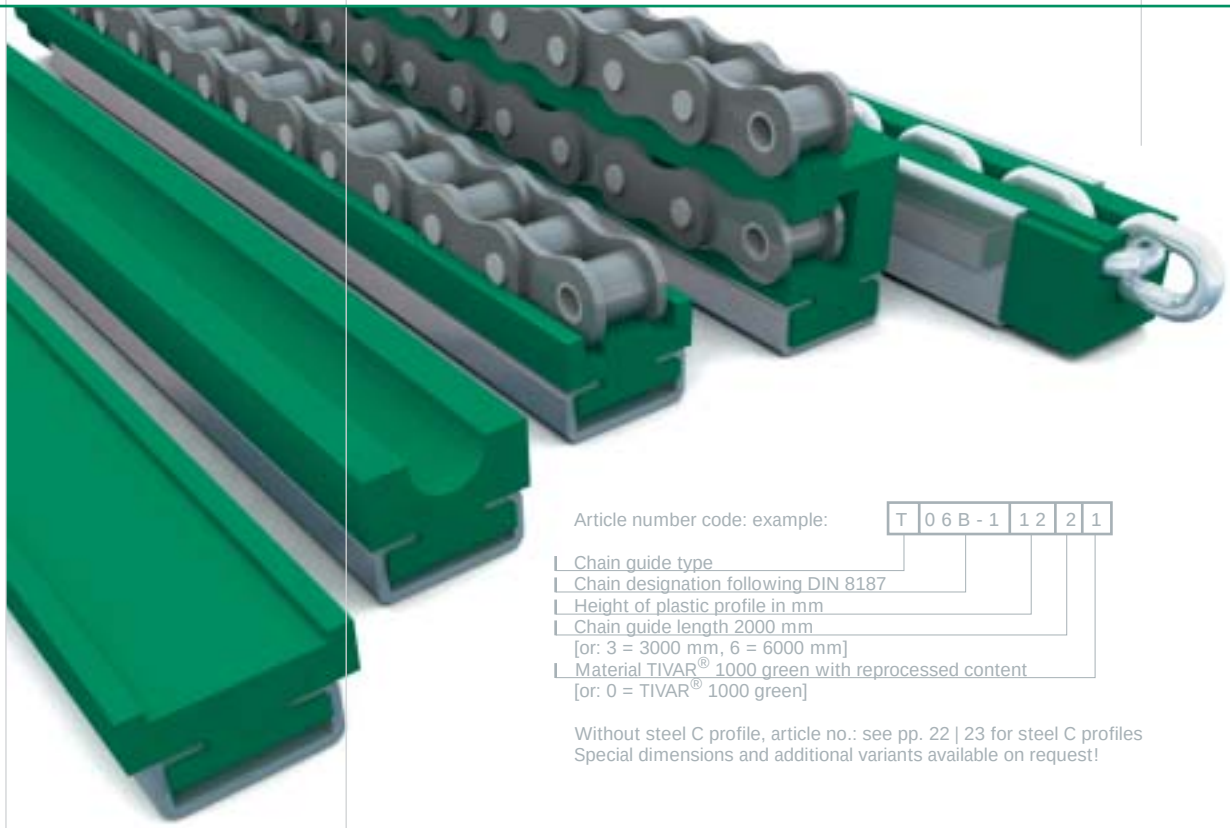
TYPE CET

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]





Chain [DIN 8187]	Pitch	Hc [mm]	Bc [mm]	B [mm]	B1 [mm]	B2 [mm]	H1 [mm]	H2 [mm]	C pro. [type]	Hx1 [mm]	Hx2 [mm]	Hy [mm]	Article no.
06B-1	3/8" x 7/32"	27	20	20	4.9	5.5	6.6	9.2	C03	17	30.2	17.3	CET 06B-1 27.2.1
08B-1	1/2" x 5/16"	29.4	20	20	5.4	7.5	8.9	13	C03	18	33.7	16.3	CET 08B-1 29.2.1
10B-1	5/8" x 3/8"	36.2	20	20	5.6	9.3	10.4	15.5	C03	21	41.3	15.4	CET 10B-1 36.2.1
12B-1	3/4" x 7/16"	40.3	28	28	6.4	11.3	12.2	17	C05	24	46.4	22.4	CET 12B-1 40.2.1
16B-1	1" x 17 mm	54	38	38	10.5	16.5	16	22	C09	34	62	29.8	CET 16B-1 54.2.1



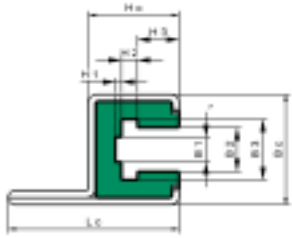
Article number code: example: T 0 6 B - 1 1 2 2 1

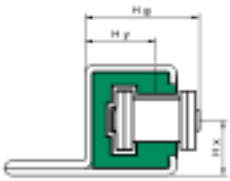
- Chain guide type
- Chain designation following DIN 8187
- Height of plastic profile in mm
- Chain guide length 2000 mm
  [or: 3 = 3000 mm, 6 = 6000 mm]
- Material TIVAR® 1000 green with reprocessed content
  [or: 0 = TIVAR® 1000 green]

Without steel C profile, article no.: see pp. 22 | 23 for steel C profiles
Special dimensions and additional variants available on request!

TYPE CKG-14

solidur® CHAIN GUIDES FOR ROLLER CHAINS [DIN 8187]

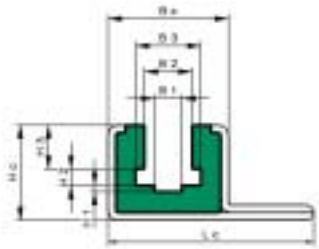


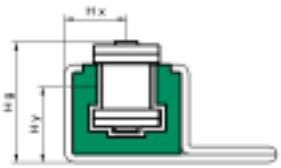


Chain [DIN 8187]	Pitch	Bc [mm]	Hc [mm]	Lc [mm]	B1 [mm]	B2 [mm]	B3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	C pro. [type]	Hy [mm]	Hg [mm]	Hx [mm]	Article no.
06B-1	3/8" x 7/32"	31	25	47	4	6.6	9.2	1.3	3.5	5.5	C14H	22.1	28.9	15.5	CKG-14 06B-1 25.2.1
08B-1	1/2" x 5/16"	31	25	47	5	8.9	12.8	1.3	4.1	7.4	C14H	21.1	29.6	15.5	CKG-14 08B-1 25.2.1
10B-1	5/8" x 3/8"	31	25	47	6	10.4	15.4	1.5	4.2	9.3	C14H	20.2	30	15.5	CKG-14 10B-1 25.2.1
12B-1	3/4" x 7/16"	31	25	47	7	12.3	16.9	1.8	4.6	11.3	C14H	19.2	30.5	15.5	CKG-14 12B-1 25.2.1

TYPE CKG-15

Chain [DIN 8187]	Pitch	Bc [mm]	Hc [mm]	Lc [mm]	B1 [mm]	B2 [mm]	B3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	C pro. [type]	Hy [mm]	Hg [mm]	Hx [mm]	Article no.
06B-1	3/8" x 7/32"	31	25	53	4	6.6	9.2	1.3	3.5	5.5	C15H	22.1	28.9	15.5	CKG-15 06B-1 25.2.1
08B-1	1/2" x 5/16"	31	25	53	5	8.9	12.8	1.3	4.1	7.4	C15H	21.1	29.6	15.5	CKG-15 08B-1 25.2.1
10B-1	5/8" x 3/8"	31	25	53	6	10.4	15.4	1.5	4.2	9.3	C15H	20.2	30	15.5	CKG-15 10B-1 25.2.1
12B-1	3/4" x 7/16"	31	25	53	7	12.3	16.9	1.8	4.6	11.3	C15H	19.2	30.5	15.5	CKG-15 12B-1 25.2.1





[Materials]

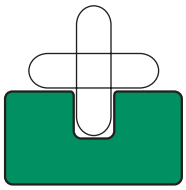
TIVAR® 1000 green [compression moulded, PE-UHMW acc. to DIN 16972, TG 1 | TG 2]
TIVAR® 1000 green with reprocessed content [PE-UHMW, material with attractive price-to-performance ratio]

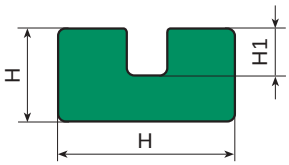
Sliding finish: Top Finish
Standard length: 2000 mm
Tolerances in accordance with DIN 2768 [plastic profile cross-section], see pp. 22 | 23 for dimensions and tolerances for steel C profiles.

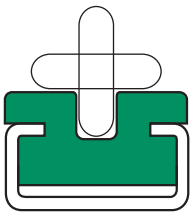
Additional materials for different applications and conditions:
TIVAR® 1000 anti-static
TIVAR® CleanStat
TIVAR® 1000 MoS_2
TIVAR® Oil Filled
TIVAR® DrySlide
TIVAR® Ceram P
TIVAR® SuperPlus
PA 6 G and PA 6 G + oil

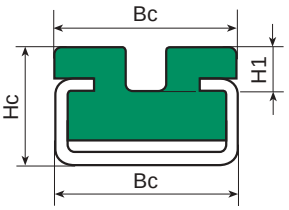
[Properties based on TIVAR® materials]

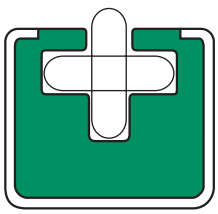
Extremely high abrasion resistance
Very good sliding properties
Self-lubricating
Good vibration and noise absorption
High impact and fracture strength
High chemical resistance, no corrosion
No moisture absorption
Approved for the food industry in accordance with EU plastics guideline
[TIVAR® 1000 green, TIVAR® 1000 anti-static, TIVAR® CleanStat, TIVAR® Oil Filled, TIVAR® Ceram P]

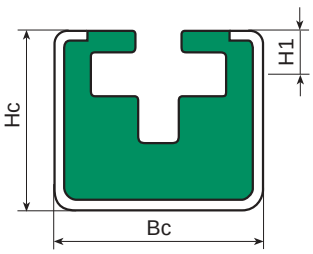


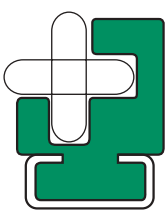

H
H1
H

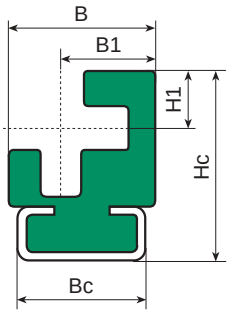



Bc
H1
Hc
Bc




H1
Hc
Bc




B
B1
H1
Hc
Bc

Guides for round belts, V-belts [DIN 2215] and flat belts

Poly Hi Solidur provides belt guides made of TIVAR® materials for round belts, V-belts [DIN 2215] and flat belts. Models with steel C profiles [galvanized, stainless steel] are also available. The preferred material for belt guides is TIVAR® 1000 black anti-static. Depending on applications and operating conditions, other materials can also be used to manufacture belt guides.

Sliding finish: Top Finish
Standard length: 2000 mm
Tolerances in accordance with DIN 2768 [plastic profile cross-section], see pp. 22 | 23 for dimensions and tolerances for steel C profiles.

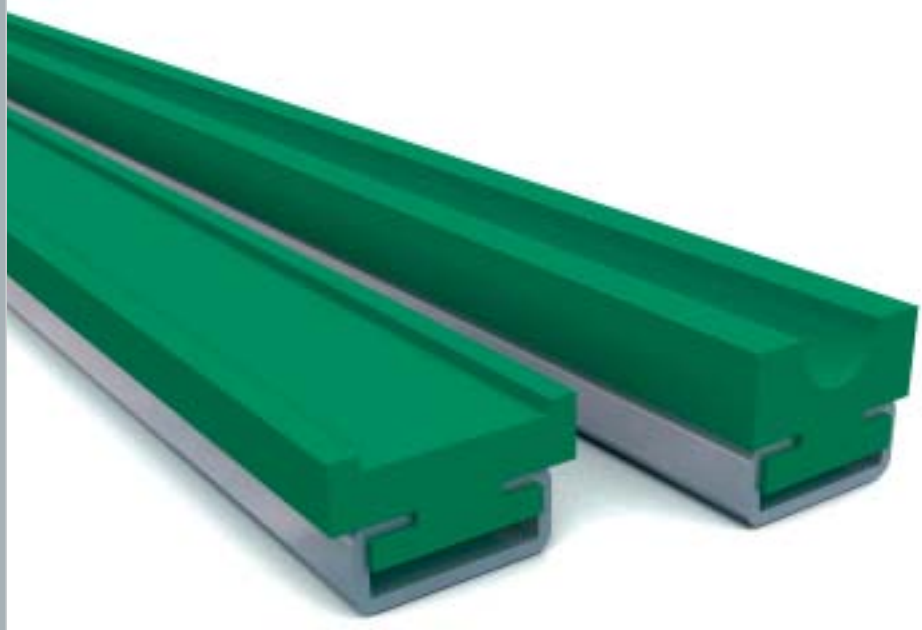
[Materials]

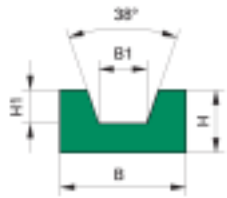
TIVAR® 1000 black anti-static, compression moulded [following DIN 16972, TG1 | TG2]

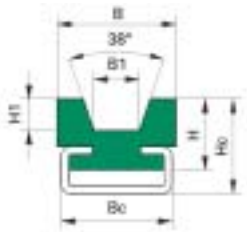
Additional materials for different applications and conditions:
TIVAR® CleanStat
TIVAR® DrySlide
PA 6 G + oil

[Properties based on TIVAR® materials]

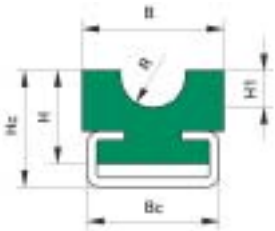
Extremely high abrasion resistance
Very good sliding properties
Self-lubricating
Good vibration and noise absorption
High impact and fracture strength
High chemical resistance, no corrosion
No moisture absorption
Approved for the food industry in accordance with EU plastics guideline
[TIVAR® 1000 black anti-static, TIVAR® CleanStat]

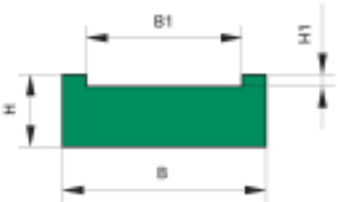


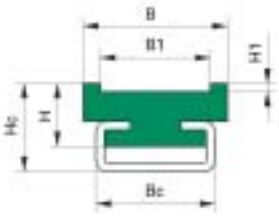

38°
B1
H1
H
B


B
38°
B1
H1
H
H2
Bc


R
H
H1
B


B
R
H2
H
H1
Bc


B1
H1
H
B


B
B1
H1
H2
H
Bc

[Materials]

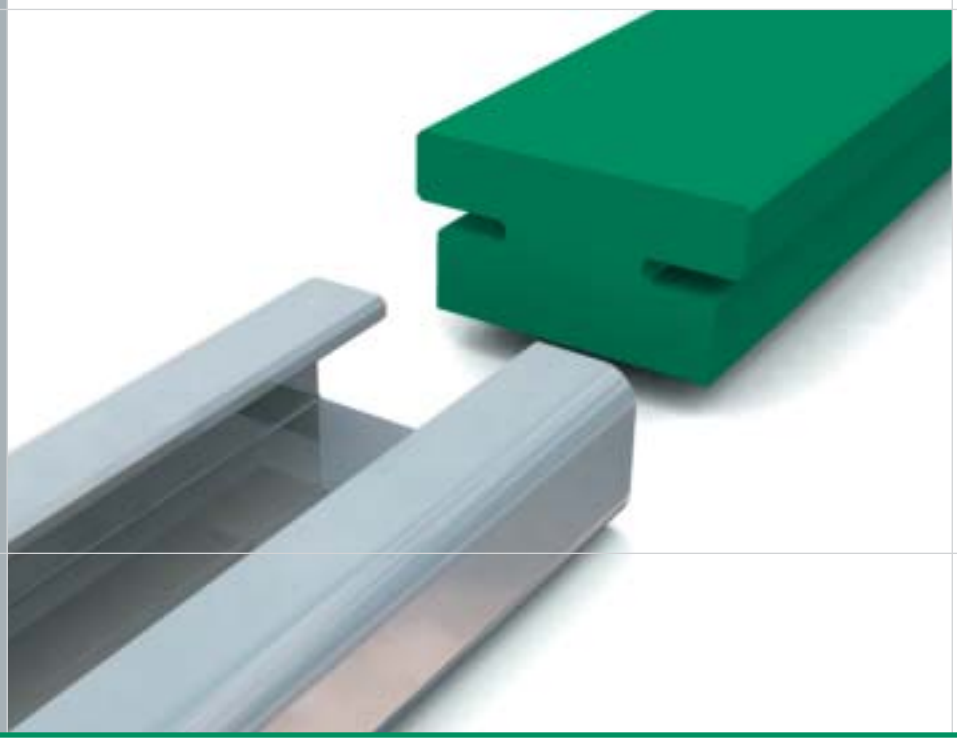
TIVAR® 1000 [green, natural],
TIVAR® 1000 green with reprocessed content [PE-UHMW material with attractive price-to-performance ratio],
TIVAR® 1000 black anti-static

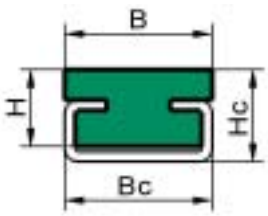
Additional materials for different applications and conditions.

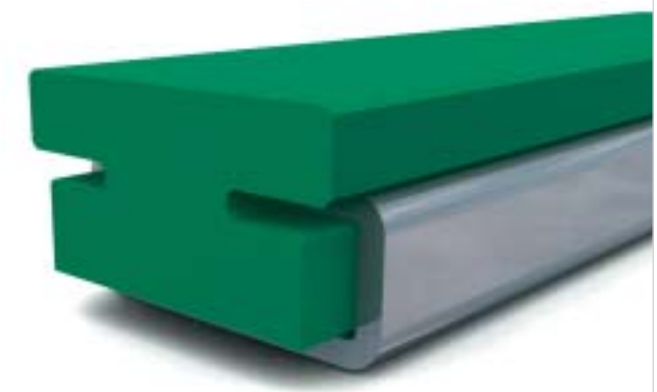
Sliding finish: Top Finish
Standard length: 2000 mm
Tolerances in accordance with DIN 2768 [plastic profile cross-section], see pp. 22 | 23 for dimensions and tolerances for steel C profiles.

[Properties based on TIVAR® materials]

Extremely high abrasion resistance
Very good sliding properties
Self-lubricating
Good vibration and noise absorption
High impact and fracture strength
High chemical resistance
No moisture absorption
Approved for the food industry in accordance with EU plastics guideline
[TIVAR® 1000 green, natural, black anti-static]

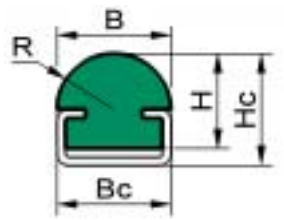






TYPE FL-C

Article	B [mm]	H [mm]	Bc [mm]	Hc [mm]	C profile [dimensions]	C profile [type]
FL-C-20.2.0	20	10	20	14	20x10	C 03
FL-C-24.2.0	24	6	24	8	24x5,2	C 01
FL-C-28.2.0	28	14	28	18	28x12	C 05
FL-C-32.2.0	38	15	38	22	38x18	C 09



TYPE RU-C

Article	B [mm]	R [mm]	Bc [mm]	H [mm]	Hc [mm]	C profile [dimensions]	C profile [type]
RU-C-17.2.0	16,5	10	20	15	20	20x10	C 03

Article number code: example: R U - C | 1 7 | 2 | 0

- Sliding guide type
- Height [H] of slide in mm
- Sliding guide length 2000 mm
  [or.: 3 = 3000 mm, 6 = 6000 mm]
- Material TIVAR® 1000 green
  [Additional materials available on request]

Without steel C profile, article no.. see pp. 22 | 23 for steel C profiles

STEEL C PROFILES [DIN 59413]

[Properties]

Steel C profiles [galvanised or stainless steel] are well-suited for mounting and securing chain and belt guides as well as extruded profiles and sliding guides made of TIVAR® materials. Steel C profiles ensure simple mounting and alignment of plastic guides and profiles.

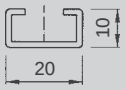
Variants: galvanised or stainless steel
Standard lengths: 2000 mm, 6000 mm

STEEL C PROFILES [DIN 59413] SELECTION TABLE

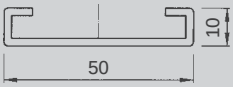
Profile	Dimensions [mm]					Profile center of gravity [cm]		Moment of resistance [cm³]				Moment of inertia [cm⁴]		Weight [kg/m]	Length [mm]	Article no. [galvanised]	Article no. [stainless steel]
	B	b	H	s	L	x1	y1	wx1	wx2	wy1	wy2	Ix	Iy				
C 01	24.0	17.5	5.2	1.0	-	0.15	1.20	0.06	0.03	0.22	0.22	0.01	0.26	0.28	2000 | 6000	C 01.2.0 | C 01.6.0	C 01.2.1 | C 01.6.1
C 03	20.0	10.0	10.0	1.5	-	0.41	1.00	0.21	0.14	0.37	0.37	0.09	0.37	0.49	2000 | 6000	C 03.2.0 | C 03.6.0	C 03.2.1 | C 03.6.1
C 04	50.0	35.0	10.0	2.0	-	0.31	2.50	0.54	0.25	1.93	1.93	0.17	4.84	1.18	2000 | 6000	C 04.2.0 | C 04.6.0	C 04.2.1 | C 04.6.1
C 05	28.0	14.0	12.0	2.0	-	0.43	1.40	0.41	0.23	0.84	0.84	0.18	1.18	0.86	2000 | 6000	C 05.2.0 | C 05.6.0	C 05.2.1 | C 05.6.1
C 06	80.0	65.0	10.0	2.0	-	0.31	4.00	0.64	0.29	4.04	4.04	0.20	16.14	1.66	2000 | 6000	C 06.2.0 | C 06.6.0	C 06.2.1 | C 06.6.1
C 07	28.0	14.0	16.0	2.5	-	0.65	1.40	0.77	0.53	1.25	1.25	0.50	1.75	1.18	2000 | 6000	C 07.2.0 | C 07.6.0	C 07.2.1 | C 07.6.1
C 09	38.0	22.0	18.0	2.5	-	0.69	1.90	1.91	0.74	2.17	2.17	0.82	4.12	1.49	2000 | 6000	C 09.2.0 | C 09.6.0	C 09.2.1 | C 09.6.1
C 10	30.0	20.0	24.0	1.5	-	0.93	1.50	0.97	0.61	1.24	1.24	0.90	1.86	0.96	2000 | 6000	C 10.2.0 | C 10.6.0	C 10.2.1 | C 10.6.1
C 11	45.0	31.0	40.0	2.0	-	1.55	2.25	3.41	2.16	4.09	4.09	5.29	9.20	2.07	2000 | 6000	C 11.2.0 | C 11.6.0	C 11.2.1 | C 11.6.1
C 12	60.0	36.0	20.0	2.5	-	0.70	3.00	2.20	1.19	4.74	4.74	1.54	14.23	2.17	2000 | 6000	C 12.2.0 | C 12.6.0	C 12.2.1 | C 12.6.1
C 13	65.0	40.0	55.0	3.0	-	2.17	3.25	6.41	4.19	5.56	5.56	13.93	18.07	4.34	2000 | 6000	C 13.2.0 | C 13.6.0	C 13.2.1 | C 13.6.1
C 14	31.0	20.0	25.0	2.0	47.0	1.09	2.46	3.81	2.06	1.50	1.65	4.14	3.69	1.87	2000 | 6000	C 14.2.0 | C 14.6.0	C 14.2.1 | C 14.6.1
C 15	31.0	20.0	25.0	2.0	53.0	1.79	2.84	0.93	2.33	2.84	2.86	1.66	7.04	1.90	2000 | 6000	C 15.2.0 | C 15.6.0	C 15.2.1 | C 15.6.1

Special dimensions and additional variants available on request!

C 01



C 03



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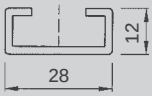
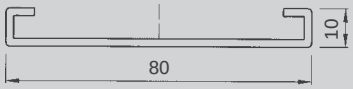
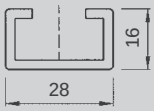


C 05



C 06



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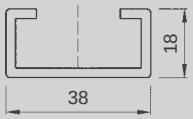
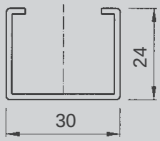
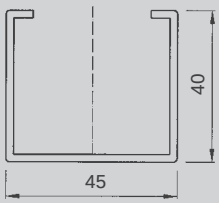


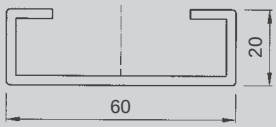
C 09



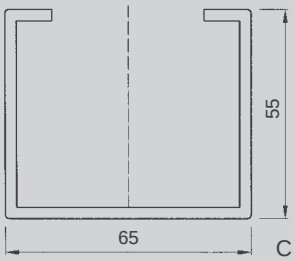
C 10



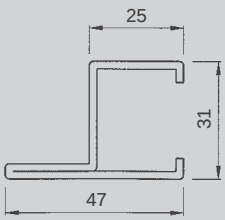
C 11



C 12



C 13



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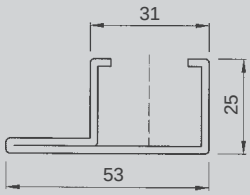


C 15

[Applications]

Air conveyors are used in bottling lines to ensure smooth transport of empty bottles, both returnable and non-returnable, which slide along at high speeds on neck guide rails. Materials based on PE-UHMW have proven superbly suited for this application.

[Properties]

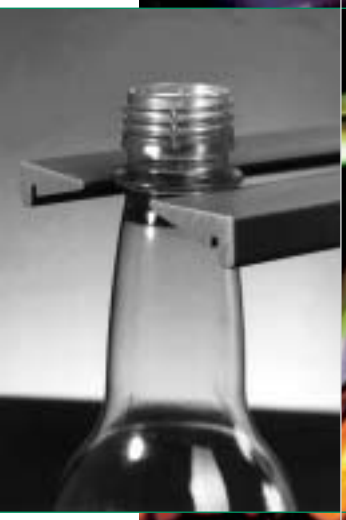
Poly Hi Solidur offers a number of materials for neck guides, all of which are characterised by excellent abrasion resistance and low slide friction values. At the same time, our materials are soft on the PET bottles and protect them from damage. The selection of specific materials depends on the different mechanical stress levels in the air transport systems.

[Materials]

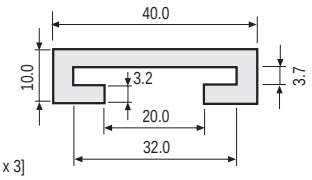
TIVAR® Ceram P is a PE-UHMW material with glass beads added to enhance wear resistance, making it suitable for applications with high mechanical stress levels. Colour: yellow-green.

TIVAR® SuperPlus is a wear-optimised, partially cross-linked PE-UHMW material for extremely high demands and stress levels. Colour: silver-grey

Like all of our finished parts [see "Finished plastic parts" on pages 30-33], our neck guides made of TIVAR® materials are produced to meet the individual requirements of our customers [based on customer drawings].



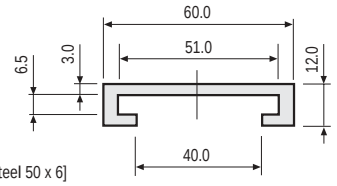
3 m
6 m



C profile
[for flat steel 30 x 3]

C1

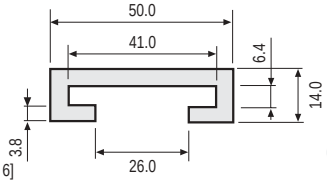
3 m
3 m
3 m



C profile
[for flat steel 50 x 6]

C4

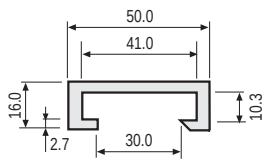
3 m
3 m
6 m



C profile
[for flat steel 40 x 6]

C7

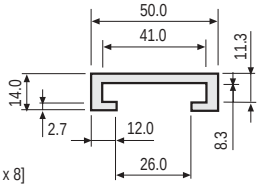
3 m
6 m
6 m



C profile
[for flat steel 40 x 10]

C17

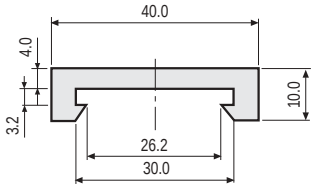
3 m
6 m
3 m
6 m



C profile
[for flat steel 40 x 8]

C20

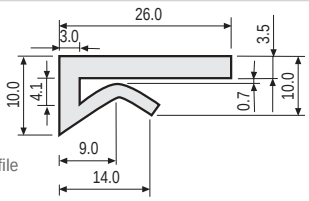
6 m



C profile
[for flat steel]

C32

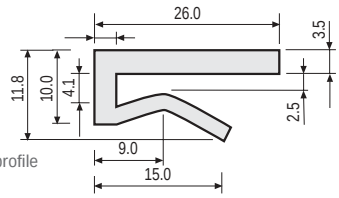
3 m
50 m
50 m



Flat clamp profile

B1

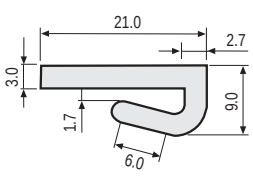
50 m
50 m



Flat clamp profile

B1a

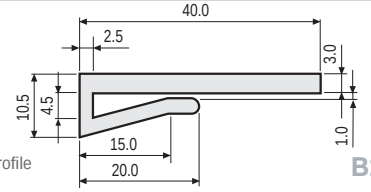
50 m
50 m



Flat clamp profile
[21 x 9 mm]

B8

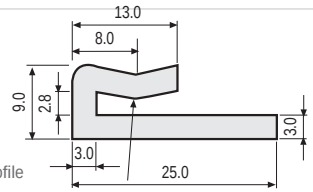
50 m



Flat clamp profile

B19

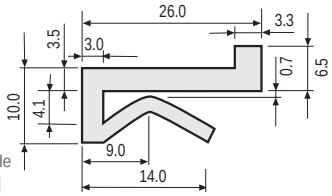
50 m



Flat clamp profile

B21

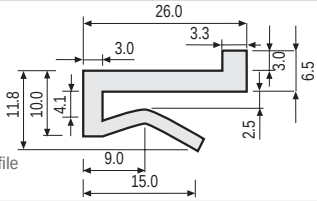
50 m



L clamp profile
[26 x 12.3 mm]

B2

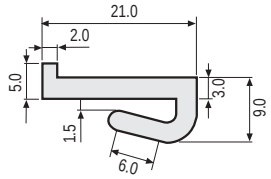
50 m



L clamp profile

B2a

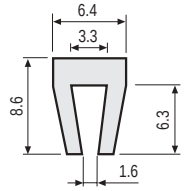
50 m
50 m



L clamp profile
[21 x 9 mm]

B6

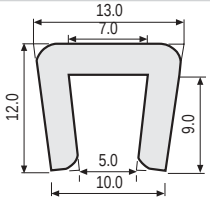
50 m
100 m



L clamp profile
[8.6 x 6.3 mm]

V1

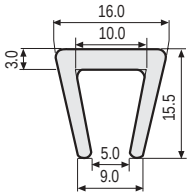
50 m



U clamp profile

V7

50 m

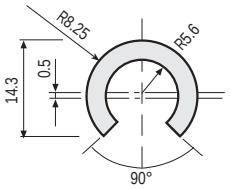


U clamp profile

V8

50 m
50 m

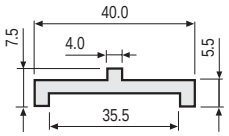
Snap-on profile



C2

50 m

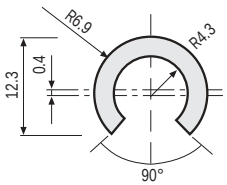
Bridge step profile
[40 x 7.5 mm]



W4

50 m

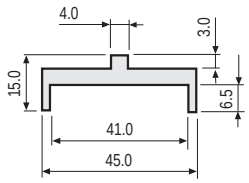
Snap-on profile



C3

6 m
50 m

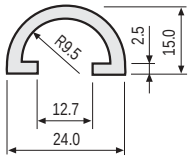
Bridge step profile
[45 x 15 mm]



W7

50 m
50 m

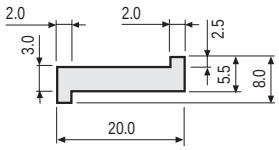
Snap-on profile



D2

50 m
50 m

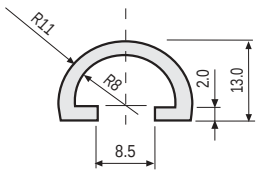
Z profile
[20 x 8 mm]



Z1

3 m

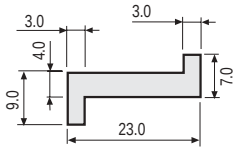
Snap-on profile



D3

50 m
50 m

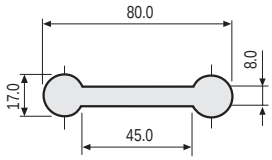
Z profile
[23 x 9 mm]



Z2

6 m
6 m

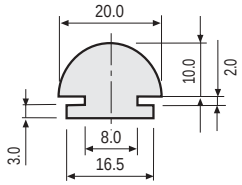
Dogbone profile



D1

3 m
6 m

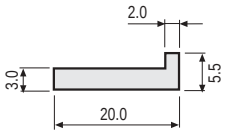
Mushroom profile



P1

50 m

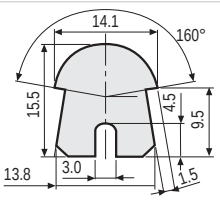
L profile
[20 x 5.5 mm]



L1

6 m
6 m

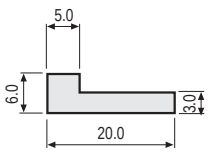
Mushroom profile



P4

50 m

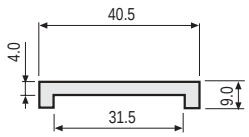
L profile
[20 x 6 mm]



L4

6 m
6 m

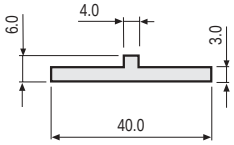
U profile



U23

50 m

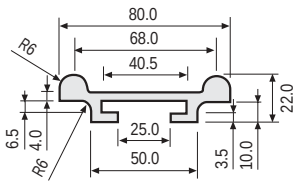
Step profile
[40 x 6 mm]



W1

6 m

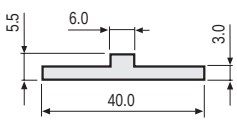
Rail profile



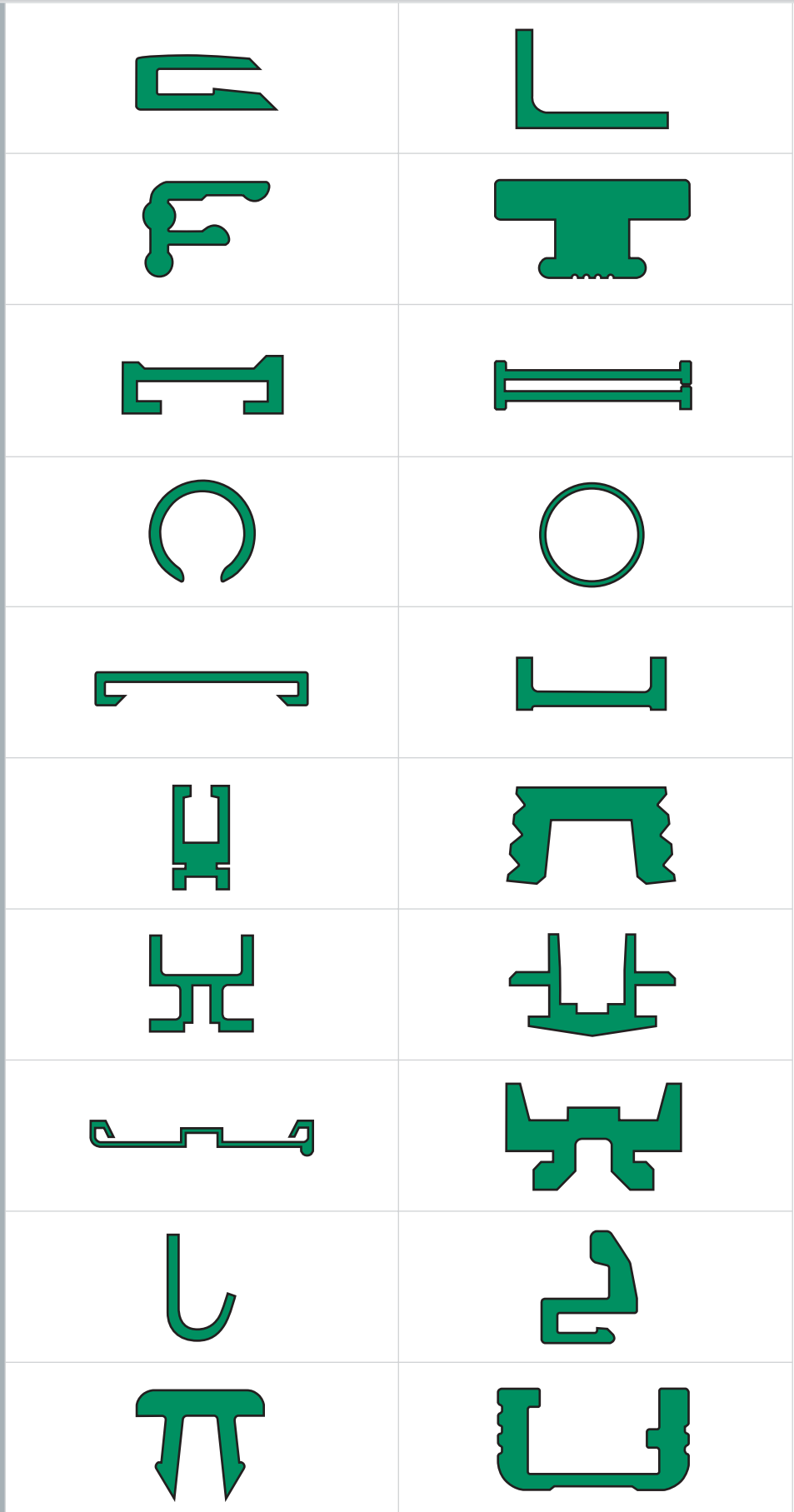
D6

50 m

Step profile
[40 x 5.5 mm]



W5



Thickness | [Coil length]	0.5 mm	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm
	[480 m]	[240 m]	[120 m]	[80 m]	[60 m]	[48 m]	[40 m]	[34 m]
Width								
15	O	O	O	X	O	O	O	O
20	O	O	X	X	O	X X	O	O
25	O	O	O	X	O	X	O	O
30	O	O	X	X	O	X	O	O
35	O	O	O	X X	O	X	O	O
40	O	O	X	X X	O	X	O	O
45	O	O	O	X X	O	X	O	O
50	O	O	O	X	O	X	O	O
60	O	O	O	X	O	X	O	O
70	O	O	O	X	O	O	O	O

Tape material:

X Available from warehouse

O Available at short from warehouse

Other dimensions and colours available on request.

[Finished plastic parts]

Poly Hi Solidur generates individual solutions in the form of subassemblies and prefabricated parts. [bespoke prefabricated parts and profiles as well as industrial solutions on the basis of drawings, customer specifications, and samples].

Cutting-edge manufacturing technology and processing centres allow for rapid, flexible, and economic production. All TIVAR® materials [based on PE-UHMW] at Poly Hi Solidur are made with state-of-the-art compression moulding and RAM extrusion systems. This ensures unsurpassed economic feasibility.

Poly Hi Solidur also offers prefabricated parts and components made of other technical plastics:

PA 6 | PA 6 G | PA 6 G + oil | PA 12 | PA 12 G | POM | PET | PTFE

TIVAR® DESIGNATION	MATERIAL GROUP
TIVAR® 1000	PE-UHMW [green, black, natural, blue, yellow, red, grey]
TIVAR® 1000 anti-static	PE-UHMW anti-static [black]
TIVAR® 1000 UV-stabilised	PE-UHMW UV-stabilized [black, natural]
TIVAR® 1000 anti-microbial	PE-UHMW anti-microbial [light blue]
TIVAR® 1000 MoS_2	PE-UHMW with MoS_2 as solid lubricant [black-charcoal]
TIVAR® 1000 BOR	PE-UHMW mit Borverbindungen als Neutronenabsorber [natural]
TIVAR® 1000 with reprocessed content	PE-UHMW [green, black, confetti-coloured, confetti-black, confetti-fine]
TIVAR® Ceram P	modified PE-UHMW [wear-optimised, yellow-green]
TIVAR® SuperPlus	modified PE-UHMW [partially cross-linked, wear-optimised, silver-grey]
TIVAR® Special DS	modified PE-UHMW [optimised wear and sliding properties for applications in the paper industry, yellow]
TIVAR® DrySlide	modified PE-UHMW [optimised sliding properties, black]
TIVAR® Oil Filled	modified PE-UHMW [optimised sliding properties, approved for the food industry, grey]
TIVAR® CleanStat	modified PE-UHMW [anti-static and approved for the food industry, black]
TIVAR® H.O.T.	modified PE-UHMW [oxidation-retardent, higher thermal resistance, white]
TIVAR® FlamEx	modified PE-UHMW [flame-retardent, black-silver]

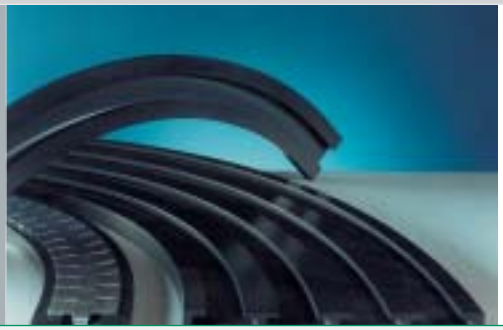
[Properties]

Very good sliding properties
Very high abrasion resistance
Very high impact resistance
Very good chemical resistance
Good noise absorption
Anti-adhesive
High performance under shock and impact conditions

[Typical areas of application]

Filling and packing industry
Food processing
Environmental technology
Conveyor, assembly, and handling systems
Bulk goods handling
Paper industry
Nuclear industry
Harbour and offshore facilities
Chemical technology
Medical technology

MATERIALS	PROPERTIES
PA 6	[Polyamide 6 extruded]: Mechanical strength, stiffness, toughness, good wear resistance, good chemical resistance, moisture absorption
PA 6 G	[Polyamide 6 cast]: High mechanical strength, stiffness and hardness, good wear resistance, good chemical resistance, enhanced slide properties, lower moisture absorption
PA 6 G + oil	[Polyamide 6 cast + oil]: High mechanical strength, stiffness and hardness, good wear resistance, good chemical resistance, enhanced slide properties, lower moisture absorption
PA 12	[Polyamide 12 extruded]: Low weight, higher impact resistance, lower water absorption, enhanced chemical resistance, lower moisture absorption
PA 12 G	[Polyamide 12 cast]: Higher mechanical, thermal and impact resistance, good chemical resistance, lower moisture absorption
POM	[Polyoxymethylene]: High hardness and strength, good sliding properties, high abrasion resistance, lower moisture absorption, form stability, approved for the food industry in accordance with FDA and EU plastics guidelines
PET	[Polyethylene terephthalate]: High strength, hardness and dimensional stability, good sliding properties, low moisture absorption
PTFE	[Polytetrafluorethylene]: Very good sliding properties, broad thermal application range, very good chemical resistance, no moisture absorption, moderate mechanical strength

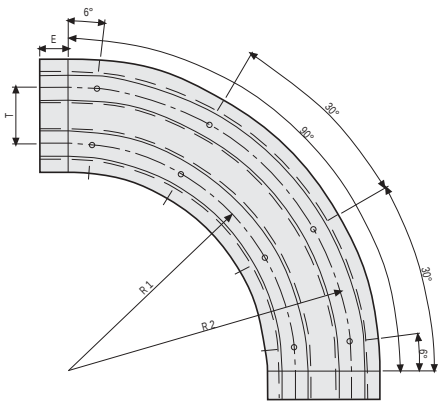


Single and multiple corner wear bends | straight guides

Different TIVAR® materials are proven solutions for corner wear bends and straight guides in filling, packing and conveyor systems.

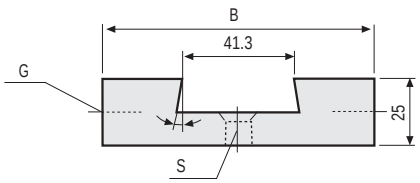
Preferred materials for different applications and industries:

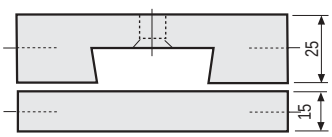
TIVAR® 1000	PE-UHMW [colours: green, natural]
TIVAR® 1000 anti-static	PE-UHMW anti-static [colour: black]
TIVAR® Ceram P	modified PE-UHMW [wear-optimised, colour: yellow-green]
TIVAR® SuperPlus	modified PE-UHMW [partially cross-linked, wear-optimised, colour: grey]
TIVAR® DrySlide	modified PE-UHMW [optimised sliding properties, anti-static, colour: black]
TIVAR® Oil Filled	modified PE-UHMW [optimised sliding properties, approved for the food industry; colour: grey]

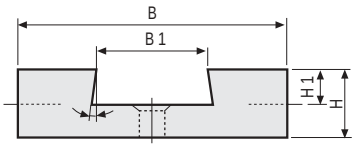


G = threaded insert M 8 brass
S = countersunk bore ø 9/15 90°

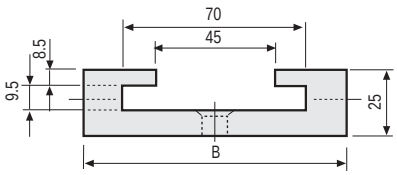
BEVEL guide

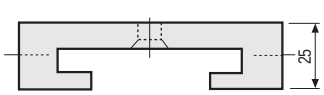


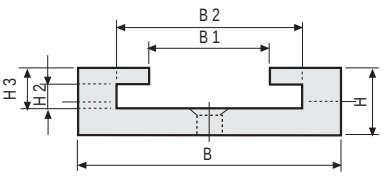




TAB-guide







[For different dimensions, please give parameters]

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