



RÖCHLING

Leripa Papertech

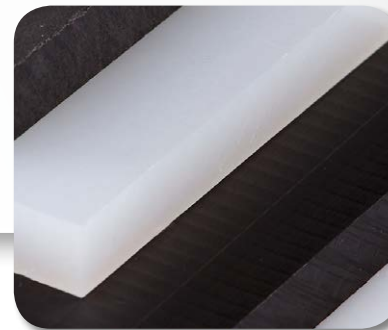
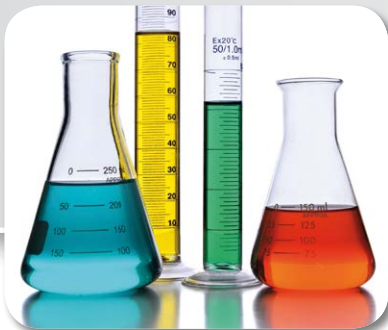
Product overview ROBALON plastics



05/2014



Wear parts
for general engineering
and plant construction



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The Röchling LERIPA Papertech production facility in Oepping/Upper Austria.

Competence, Quality, Innovation

56 sites
in 20 countries



Röchling Group

The Röchling Group, founded in 1822, has been active in the plastic processing sector for over 90 years already. The global plastics group headquartered in Mannheim (Germany) brings together 56 companies in 20 countries worldwide.

With the two company sectors, high-performance plastics and automobile plastics, the Röchling Group focuses on the processing of high-quality, technical plastics into semi-finished products, pre-assembled components and systems for a multitude of industrial applications.

www.roechling.com



*Permanent spirit of innovation
in new and further development*

First point of contact
for innovative wear solutions

Longstanding cooperation
with engineers

Own research &
development department

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Röchling LERIPA Papertech

The company, headquartered in Oepping in Upper Austria, is a leading manufacturer and processor of plastics. We are experts in the manufacture of innovative wear solutions for general engineering and plant construction, the paper industry and agricultural engineering. We are also your point of contact for semi-finished products, parts from drawings and bespoke solutions from technical plastics.

Top quality and a spirit of innovation have been traditional at Röchling LERIPA Papertech for over 300 years and from our position as regional leaders in the leather tanning industry, we have now developed into a global player.

www.leripa.com



**ROBALON –
the plastic for greater safety
and cost-effectiveness**

Advantages of ROBALON

- Excellent slide and wear characteristics
- Very high notched impact strength
- No water absorption and no swelling
- High chemical resistance
- No corrosion
- Low temperature resistance
- UV- and weather-resistant
- Lightweight
- Dirt-repellent
- Noise-insulating

ROBALON is a sintering plastic consisting of ultra-high molecule low-pressure polyethylene (UHMW-PE). It is alloyed with molybdenum sulphide, crosslinkers and UV stabilisers.

LERIPA started manufacturing ROBALON plastic over 50 years ago. Nowadays, 6 different ROBALON modifications are produced - we can therefore offer the right material for every customer requirement.

With ROBALON, Röchling LERIPA Papertech are the people to contact for any issues you have with slide and wear.

Manufacture and processing

All materials are produced in a special long-term sinter pressing process, with very long pressing cycles. Our sintering presses facilitate the production of 12 m long panels.

This process has numerous advantages compared to conventional extrusion, injection moulding or standard sintering processes.

- Stress-free internal structure due to long-term sinter pressing process
- Wear-resistant
- 12 m long components with no welding seam
- High notched impact strength
- High resistance against stress crack formation



ROBALON pre-assembled components are manufactured by machine processing with state-of-the-art machinery allowing individual and precise processing.

Our production processes:
Sintering pressing, planing, sawing, drilling, lathing, milling, bevelling, surface refinement, cutting, welding, thermoforming

An overview of material modifications

We offer the right material for all your requirements. We would be delighted to advise you in selecting the right material.

Standard types

ROBALON-S

The classic

- alloyed with molybdenum sulphide, with crosslinkers, UV stabilised

↓

Ideal for **semi-finished products and pre-assembled components** where **extraordinary slide and wear characteristics are required**

ROBALON-W

- with no molybdenum sulphide, without crosslinkers
- physiologically safe
- very good electrical insulation value

↓

Excellently suited to the **foodstuffs and electrical industry**

Colour white

ROBALON-Z

- with reinforced molybdenum sulphide alloy
- particularly low-friction

↓

For **strongly adhesive viscid material with a high degree of humidity**

For universal use



Special types

ROBALON-E

- with anti-static
- electrically-conducting
- no static charging

↓

Ideal for the **electronic and semi-conductor industry and in explosion-protected areas in mining and industry**

ROBALON-GL

- molybdenum sulphide alloy
- addition of microglass balls

↓

Increased rigidity

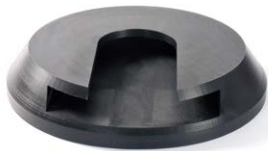
ROBALON-R

- reclaim produced entirely from UHMW-PE qualities (ROBALON)
- only pure UHMW-PE recycled material is used for ROBALON-R, in contrast to the reclaims customary on the market

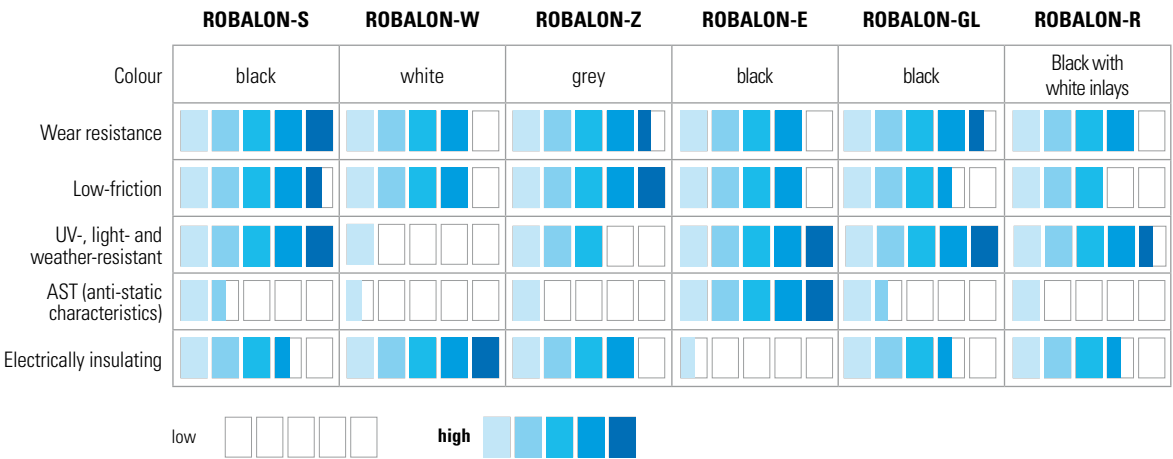
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Alternative to ROBALON-S

With slightly reduced characteristics



Material characteristics Technical data



	Measuring proc.	ROBALON-S	ROBALON-W	ROBALON-Z	ROBALON-E	ROBALON-GL	ROBALON-R
Density - g/cm³	DIN EN ISO 1183	0,93	0,93	0,93	0,94	0,97	0,93
Average molar mass - g/mol	Viscosimetrically determined	9.2 million – arithmetically determined in accordance with the Margolies equation					
Yield stress at 50 % elongation - MPa	DIN EN ISO 527-1	18	17	18	16	19	16
Breaking elongation - %	DIN EN ISO 527-1	200	300	280	270	370	200
Traction E module - MPa	DIN EN ISO 527-1	550	470	580	600	670	550
Notched impact strength (Charpy 23°C) - kJ/m	DIN EN ISO 179-2	140	160	160	110	-	-
Shore hardness - scale D	DIN EN ISO 868, 15s	63	63	63	63	64	63
Melting temperature DSC, 10 K/min - °C	DIN EN ISO 3146	135					
Therm. length elongation coefficient - 10 ⁻⁶ K ⁻¹ (in mm per 10°C temp. difference and running metres)	DIN 53752	2	2	2	2	2	2
Application temperature - °C	constant	-200 to 80	-200 to 80	-200 to 80	-200 to 80	-200 to 80	-200 to 80
Water absorption - %	-	0.01	0.01	0.01	0.01	0.01	0.01
Specif. surface resistance - Ω	DIN IEC 60093	10 ¹⁰	10 ¹²	10 ¹⁰	10 ⁷	10 ¹⁰	10 ¹⁰
Specif. contact resistance - Ωm	DIN IEC 60093	10 ¹⁰	10 ¹²	10 ¹⁰	10 ⁴	10 ¹⁰	10 ¹⁰
Pressure creep test	Stress 2N/mm2, 1 hr. > compression approx. 2 % at 23°C Stress 10N/m2, 56 hrs > compression approx. 20 % at 80°C						

Please note that all data reflects our experience, subject to further technical investigations. and no liability can be accepted for the results (due to different cases of application).

Chemical resistance

Due to its unpolar structure, ROBALON demonstrates unusually high resistance to chemicals and other media. It is resistant to watery solutions of salts, acids and alkalis. ROBALON is resistant to strong oxidants such as nitric acid, ozone, oleum, hydrogen peroxide or halogens to a limited extent.

	Temperature		
	20°C	50°C	80°C
Acetone	Y	Y	-
Aluminium chloride	Y	Y	Y
Formic/ methanoic acid	Y	Y	-
Beer	Y	Y	Y
Petrol	Y	L	-
Benzene	L	L	-
Butyric acid	Y	Y	-
Butyl alcohol	Y	Y	Y
Diesel fuel	Y	Y	L
Acetic acid 10 %	Y	Y	Y
Acetic acid 99 %	Y	Y	L
Ethanol, alcohols	Y	Y	-
Ethylene glycol	Y	Y	Y
Hydrofluoric acid	Y	N	N
Photographic developer	Y	Y	-
Fruit juices	Y	Y	Y
Glycerine	Y	Y	Y
Heating oil	Y	L	-
Hydraulic fluid	Y	L	-
Potassium hydroxide solution	Y	Y	Y
Cooking salt, saturated solution	Y	Y	Y
Carbonic acid	Y	Y	Y
Milk	Y	Y	Y
Lactic acid	Y	Y	-

	Temperature		
	20°C	50°C	80°C
Sea water	Y	Y	Y
Engine oil	Y	Y	L
Sodium chloride	Y	Y	Y
Sodium hydroxide solution	Y	Y	Y
Olive oil	Y	Y	Y
Ozone	L	N	-
Oleic acid	Y	Y	L
Petroleum 100 %	Y	L	-
Phosphoric acid 85 %	Y	Y	Y
Nitric acid 20 %	Y	Y	L
Nitric acid 50 %	L	N	N
Conc. nitric acid	N	N	N
Hydrochloric acid	Y	Y	Y
Sulphuric acid	Y	Y	Y
Sulphuric acid 50 %	Y	Y	Y
Sulphuric acid 75 %	Y	L	L
Conc. sulphuric acid	Y	N	N
Soda, sodium carbonate	Y	Y	Y
Wine	Y	Y	Y
Detergent in watery solution	Y	Y	Y
Distilled water	Y	Y	Y
Zinc chloride	Y	Y	Y
Citric acid	Y	Y	Y

- Y

resistant
swelling < 3 % or weight loss < 0.5 %.
Breaking elongation not significantly reduced.
- L

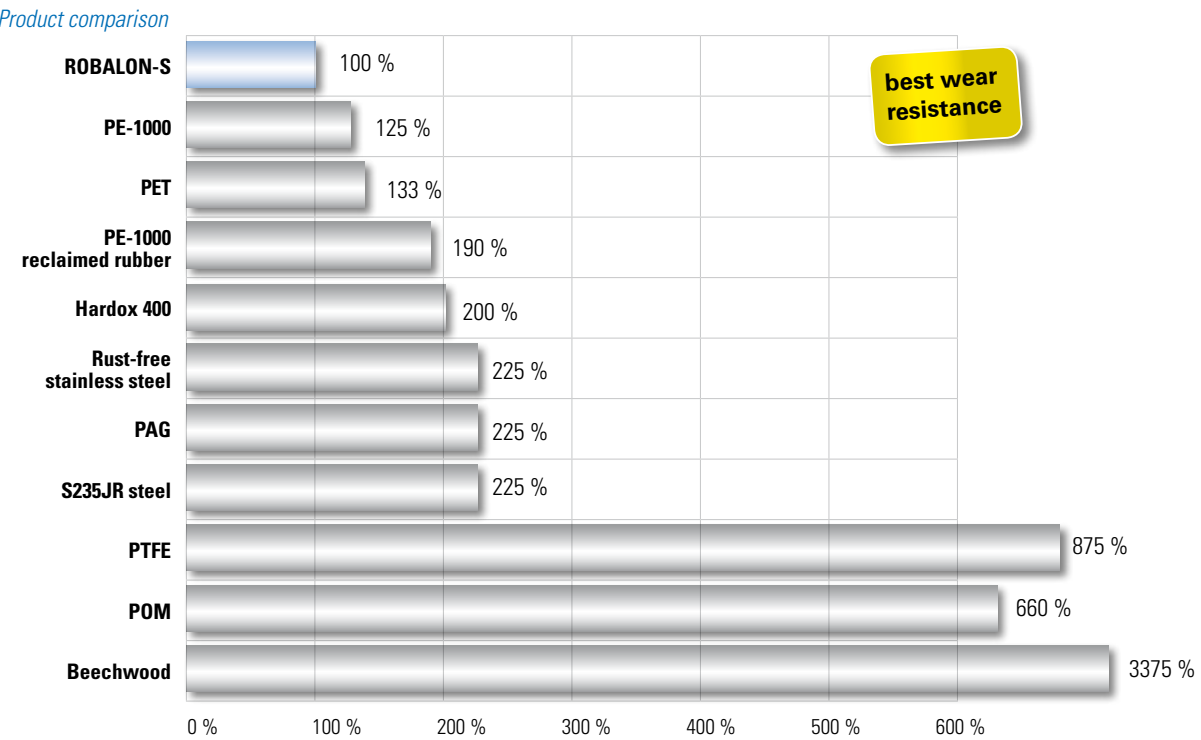
resistant to a limited extent
swelling of 3 % to 8 % or weight loss of 0.5 % to 5 % and/or breaking elongation reduced by 50 %. Tensile strength and tearing strength reduced by less than 20 %.
- N

non-resistant
swelling > 8 % or weight loss > 5 % and/or breaking elongation reduced by > 50 %. Tensile strength and tearing strength reduced by more than 20 %.
- **no test results are available here**

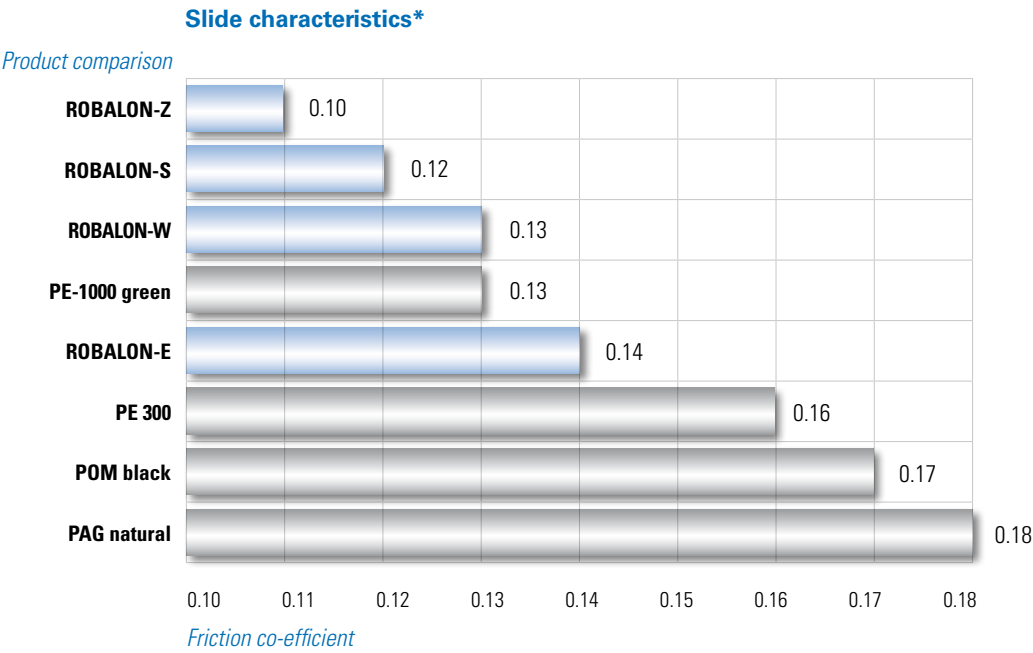


Test results

Wear resistance*
In accordance with Sand-Slurry process (ROBALON-S = 100 %)



Volumetric wear value in %
*Test pieces (101.6 x 25.4 x 6.35 mm) are rotated in a water-sand container for 24 hours at 1500 revolutions/min. Weight loss is then measured in %. ROBALON-S = 100 %.



* tested on the Röchling LERIPA Papertech wear simulation machine.
Adjustment parameters: test pieces with a locating surface of 40 x 25 mm (strength 10 mm) were tested in dry running against shear sheet steel (S235JR) with a contact pressure of 1N/mm2 and a speed of 2 m/sec. on a slide friction facility. The average value of the dynamic friction values was then measured and depicted in the table.

Alpine technology

Spare parts for piste equipment	10
Spare parts for cableways and lift systems	11
Spare parts for funiculars	12
Other applications	12

Extreme temperatures, heavy loads and numerous operating hours require reliable products. You can rely on ROBALON – the plastic with special additives ensures an excellent service life. Do not settle for less.

Spare parts for piste equipment

Drive sprockets

- Resistant to low temperatures
- No splits or breaks
- Very high abrasion resistance
- No ice or snow accumulation at the base of the teeth
- UV- and weather-resistant

Supply range:
All current manufacturers and types
Special models on request

The oldest ROBALON drive sprocket was in operation for 13 years and over 7000 hours. Our ROBALON drive sprockets are in use on 22 different types of piste equipment worldwide.

What our customers say

Hochficht skiing area

“We were operating our Ratrak 260 with a ROBALON drive sprocket for 13 years. Material breakage simply wasn’t an issue.”

Martin Lauss, operations director of the Hochficht (Upper Austria) skiing area

Chain deflectors

- No splits or breaks
- Very high abrasion resistance
- No ice and snow accumulation
- UV- and weather-resistant

Supply range:
All current manufacturers and types | Special models on request

Track guides

- Light-weight
- Noticeable chain spring improvement
- Very high abrasion resistance

Extremely high service life - over 6000 operating hours possible!

Supply range:
All current manufacturers and types | Special models on request

Mudguards and overthrow protection

- UV- and weather-resistant
- No splits or breaks
- Very high wear resistance

Supply range:
All current manufacturers and types | Special models on request

Protective floor rails

- Very high abrasion resistance
- Protection of chain and garage floors
- Resistant to low temperatures

Supply range:
Unwelded lengths up to 12 m

Spare parts for cableways and lift equipment

Scuff rails for cabs and cableways stations

- Very good slide and wear characteristics
- Impact-resistant
- No discoloration

Supply range:
Panels and rails in all current dimensions



Bars

- Durable
- Low-noise
- UV- and weather-resistant

For Liftomat 2000



Spare parts for funiculars

Inclined roller cases

- Very good slide and wear characteristics
- UV- and weather-resistant
- Significant noise reduction

Inclined rollers also available as a whole



Supply range:

All current manufacturers and types, special models upon request

Side slide disks

- Low-friction
- Wear resistant
- Low-noise



Supply range:

All current manufacturers and types, special models upon request

Grinding blocks

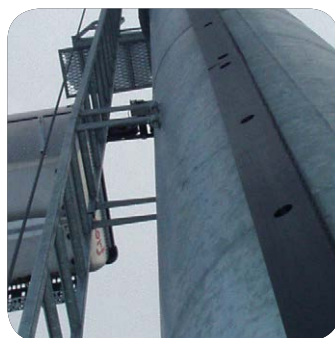
- Cable-protecting
- UV- and weather-resistant
- Low-friction



Supply range:

All current manufacturers and types, special models upon request
Available with or without cable grooves

Other applications



Protection rails for lift struts



Ski holders



Drive connectors



Linings

Linings for various industries

Highly wear-resistant plastic linings for a wide range of applications in the most diverse sectors:

- No adherence
- UV- and weather-resistant
- Very good wear characteristics
- Low-friction
- Noise-absorbent
- Easy to install
Elements pre-rolled or edged

Enormous reduction in noise level



Applications:

ROBALON plastic bunker linings, silos, chutes, troughs, funnels, bunker outlets, delivery cones, tip chutes, oscillating and vibrating conveyors, weighing vessels, dust separators, tipper trucks, wagons, etc.

for:

Coal, ores, limestone, cement, glass sand, clay, gravel, ballast, gypsum, phosphate, magnesites, salts, chemical fertilisers, sawdust, wood chips, grain, sugar beet, animal feed, etc.

One-stop shop:

- Excellent, bespoke lining material
- Fixtures such as screws, nuts, spiral drills, caps
- Assembly
- Support and on-site consultation

Linings for biogas plants

We supply special lining systems for biogas plants that all but banish corrosion and wear. The plastic lining panels in the biogas plant prevent direct contact between aggressive biomasses and the container wall and increase the lifespan.

- No corrosion – high chemical resistance
- High wear resistance –very durable
- No adherence, no freezing in winter – easy to clean
- Extremely low-friction – energy-saving

Excellent corrosion protection

We offer:

- No extensive pre-treatment required on the container; just needs to be swept dry
- The lining can be directly fitted to the untreated steel surface.
- The panels are pre-cut and bored on our premises
- The joints are welded and bore holes sealed to produce a self-contained vessel – that means no corrosion.
- No container damage from bore holes or weld seams
- No nuts, bolts, etc. on the panel outer = no risk of injury
- Service life greatly increased

Supply range:

- Excellent, bespoke lining material for your biogas plant
- Fixtures such as screws, nuts, spiral drills, caps
- Assembly
- Support and on-site consultation



Spiral conveyors

- Excellent chemical resistance to acids and alkalis
- Excellent slide and wear characteristics
Up to 20 % energy saving
- Weight saving of up to 50 %
Compared to steel or stainless steel designs
- Self-cleaning and dirt-repellent
Material being conveyed does not stick



Brick and construction industry

ROBALON offers the construction industry an impact-resistant material with a no-split, no-break guarantee. Its outstanding features are its wear characteristics and excellent weather resistance and you can also benefit from our many years of experience.

Wear parts for cranes and trucks

Supporting discs for cranes

- Lubricant resistant
- Impact-resistant – no splits or breaks
- UV and weather resistant
- Light-weight
- No water absorption



Supply range:

All current dimensions available, special dimensions on request

Slide blocks

- Outstanding slide characteristics
- No splits or breaks
- UV- and weather-resistant
- High impact strength



Supply range:

All current manufacturers and types available, special dimensions on request

Other applications



Wearing plates
for vibrators and rammers



Castors



Linings: see page 13



Timber industry



Food and drinks industry

High-performance and above all sophisticated plastic solutions guarantee satisfaction in the timber industry. See for yourself...

Drive connectors, sliders and slide bushings

- **Wear resistant**
- **Low-friction**
- **UV- and weather-resistant**
- **No splits or breaks**

Supply range:
All current manufacturers and types, special dimensions on request

Guide profiles

For **further information** on our guide profiles, we would refer you to our comprehensive range in **transport, conveying and storage technology** on page 18.

Highly wear-resistant plastic linings
for numerous applications in the most diverse of sectors.

Further information on page 13.



We offer field-tested slide and wear parts which are 100 % reliable. Rely on ROBALON and you will not be disappointed.

Curve guides

- **Wear-resistant**
- **Low-friction**
- **Resistant to chemicals**

Supply range:
Bespoke production possible

Spiral conveyors

- **Low-friction**
- **Resistant to hydrolysis**
- **Low-noise**

Supply range:
Bespoke production possible

Pile blocks

- **Physiologically safe**
- **Easy to clean**
- **True-to-size manufacture**

Supply range:
Bespoke production possible





Transport and conveyor technology

Chain guides for roller chains	18
Chain guides for round link chains	22
Belt guides	23
Flat profile guides	25
Galvanised steel C profiles	25
Linear guides	25

Important information

All specifications in mm

Plastic guides: standard length 2 m
Individual lengths up to 11.5 m

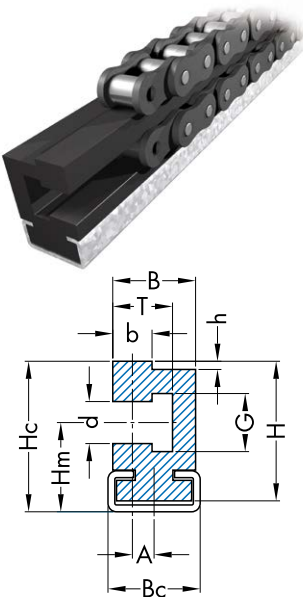
Steel C profiles are not included
in the scope of delivery
Max. length 6 m

Please note the heat expansion in ROBALON
when chain and belt guides are fitted

Advantages of ROBALON in chain and belt guides

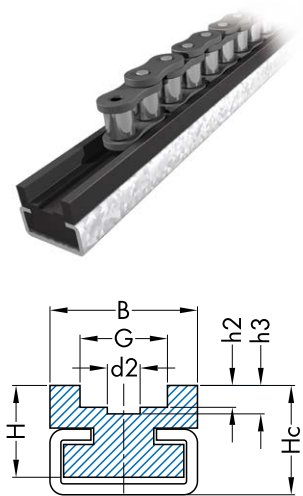
- **Low friction co-efficient** – energy saving
due to low driving power
- **Self-lubricating** – no oil lubrication necessary
- **High abrasion resistance**
- **Protects chains** – increases the service life of chains
- **Low-noise operation**
- **Resistant to hydrolysis**
- **Easy to clean** – ROBALON materials have
dirt-repelling characteristics

Chain guides for roller chains



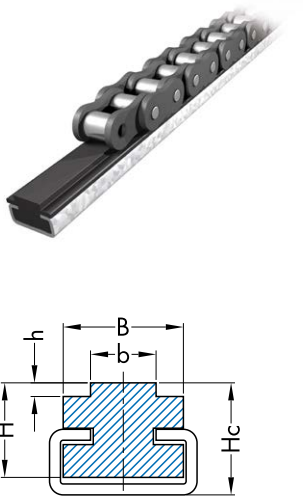
CE type tier guide for roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	H	Bc	Hc	Hm	A	T	b	h	d	G
CE 3.1	3/8" x 7/32"	06 B-1	C3	16.5	25	20	27	17	5.5	9.9	5.5	1.5	6.6	9.3
CE 3.2	1/2" x 5/16"	08 B-1	C3	16.5	30	20	32	19.5	4.5	12.7	7.5	2.2	8.7	12.3
CE 3.3	5/8" x 3/8"	10 B-1	C3	20	35.5	20	37.5	22.5	5.4	14.8	9.3	2.6	10.4	15.4
CE 6.1	3/4" x 7/16"	12 B-1	C5	28	40	27	42	25.5	7.9	17.5	11.3	2.4	12.3	16.9
CE 9.1	1" x 17 mm	16 B-1	C9	38	53	38	57	35	11.3	26.8	16.5	3.5	16.1	22.4



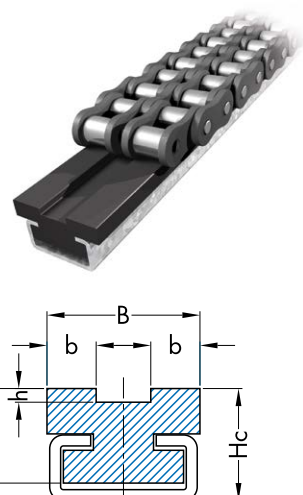
CU type for single roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	H	Hc	G	d2	h2	h3
CU 3.1	1/2" x 5/16"	08 B-1	C3	20	10	15	12.8	4.9	3.5	4.8
CU 6.1	5/8" x 3/8"	10 B-1	C5	24	12	18	15.4	5.5	3.6	5.1
CU 6.2	3/4" x 7/16"	12 B-1	C5	24	12	18	16.9	6.2	3.9	5.7
CU 9.1	1" x 17 mm	16 B-1	C9	33	20	30	24.4	8.9	8.4	9.9
CU 9.2	1 1/4" x 3/4"	20 B-1	C9	50	25	35	28	11	10	12.2
CU 9.3	1 1/2" x 1"	24 B-1	C9	55	30	40	35	16	13	16



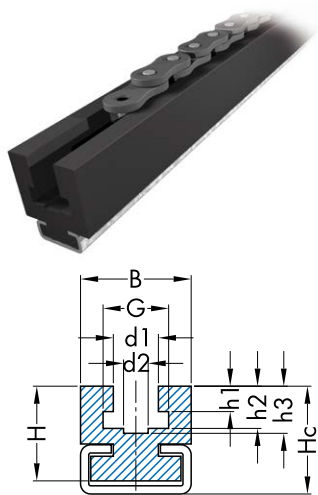
CT type for single roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	H	Hc	b	h
CT 3.1	1/2" x 3/16"	083	C3	20	15	17	4.7	1.6
CT 3.2	1/2" x 1/4"	085	C3	20	15	17	6.2	2.2
CT 3.3	1/2" x 5/16"	08 B-1	C3	20	15	17	7.5	2.2
CT 3.4	5/8" x 1/4"		C3	20	15	17	6.3	2.6
CT 3.5	5/8" x 3/8"	10 B-1	C3	20	15	17	9.3	2.6
CT 3.6	3/4" x 7/16"	12 B-1	C3	24	15	17	11.3	2.4
CT 6.1	3/4" x 7/16"	12 B-1	C5	30	15	18	11.3	2.4
CT 6.2	1" x 17 mm	16 B-1	C5	24	15	18	16.5	3.5
CT 6.3	1 1/4" x 3/4"	20 B-1	C5	28	17	20	19	4.2
CT 9.1	1 1/2" x 1"	24 B-1	C9	33	25	30	24.7	5.5
CT 9.2	1 3/4" x 31 mm	28 B-1	C9	38	25	30	30.1	6.8
CT 9.3	2" x 31 mm	32 B-1	C9	38	25	30	30.1	7.7



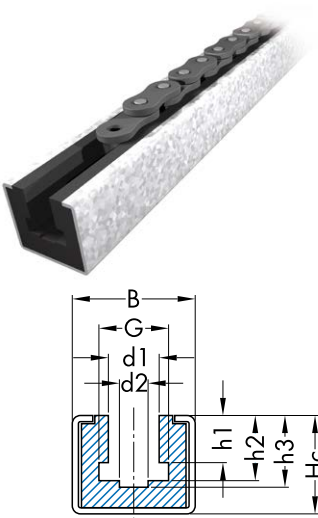
CTT type for double roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	H	Hc	b	h
CTT 3.1	1/2" x 5/16"	08 B-2	C3	21.4	15	17	7.5	2.2
CTT 3.2	5/8" x 3/8"	10 B-2	C3	25.9	15	17	9.3	2.6
CTT 6.1	3/4" x 7/16"	12 B-2	C5	30.7	15	20	11.3	2.4
CTT 9.1	1" x 17 mm	16 B-2	C9	48.3	20	27	16.5	3.5
CTT 9.2	1 1/4" x 3/4"	20 B-2	C9	55.3	25	30	19	4.3



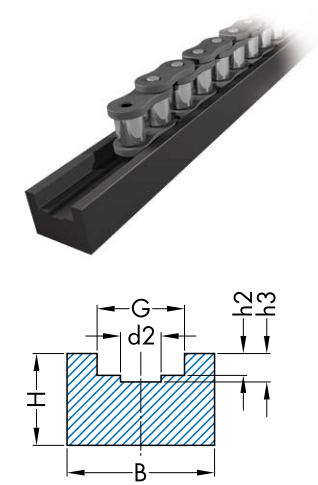
CK type for single roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	H	Hc	G	d1	d2	h1	h2	h3
CK 3.1	3/8" x 5/32"		C3	20	19	21	9.3	6.6	4	3.8	5.8	8
CK 3.2	3/8" x 7/32"	06 B-1	C3	20	19	21	9.3	6.6	4	5.6	8.7	9.9
CK 3.3	1/2" x 3/16"		C3	20	19	21	10.8	8	4	4.7	7.4	8.3
CK 6.1	1/2" x 1/4"		C5	28	29	32	11.8	8	5	6.2	9.8	11.2
CK 6.2	1/2" x 1/4"		C5	28	29	32	12.8	8.7	5	6.2	10.8	11.3
CK 6.3	1/2" x 5/16"	08 B-1	C5	28	29	32	12.8	8.7	5	7.5	11.5	12.7
CK 6.4	5/8" x 1/4"		C5	30	29	32	15.4	10.4	6	6.2	10.3	11.7
CK 6.5	5/8" x 3/8"	10 B-1	C5	30	29	32	15.4	10.4	6	9.4	13.5	14.8
CK 6.6	3/4" x 7/16"	12 B-1	C5	32	32	35	16.9	12.3	7	11.5	15.9	17.5
CK 6.7	1" x 17 mm	16 B-1	C5	40	45	48	24.4	16.1	10	16.8	25.7	26.8



CKS type for single roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	C profile no.	B	Hc	G	d1	d2	h1	h2	h3
CKS 10.1	3/8" x 5/32"		C10	30	24	9.3	6.6	4	3.8	5.8	8
CKS 10.2	3/8" x 7/32"	06 B-1	C10	30	24	9.3	6.6	4	5.6	8.7	9.9
CKS 10.3	1/2" x 3/16"		C10	30	24	10.8	8	4	4.7	7.4	8.3
CKS 10.4	1/2" x 1/4"		C10	30	24	11.8	8	5	6.2	9.8	11.2
CKS 10.5	1/2" x 1/4"		C10	30	24	12.8	8.7	5	6.2	10.2	11.3
CKS 10.6	1/2" x 5/16"	08 B-1	C10	30	24	12.8	8.7	5	7.5	11.5	12.7
CKS 10.7	5/8" x 1/4"		C10	30	24	15.4	10.4	6	6.2	10.3	11.7
CKS 10.8	5/8" x 3/8"	10 B-1	C10	30	24	15.4	10.4	6	9.4	13.5	14.8
CKS 10.9	3/4" x 7/16"	12 B-1	C10	30	24	16.9	12.3	7	11.5	15.9	17.5
CKS 11.1	1" x 17 mm	16 B-1	C11	45	40	24.4	16.1	10	16.8	25.7	26.8
CKS 11.2	1 1/4" x 3/4"	20 B-1	C11	45	40	27.5	19.3	11	19.4	29.3	31.2
CKS 11.3	3/4" x 7/16"	12 B-1	C11	45	40	16.9	12.3	7	11.5	15.9	17.5

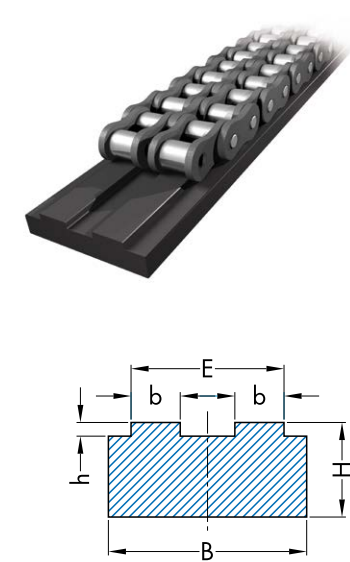
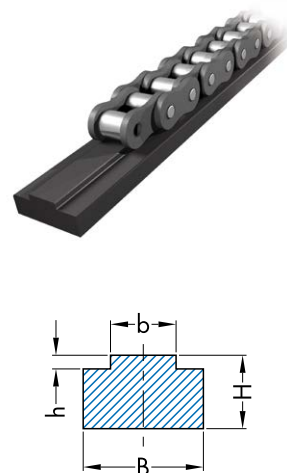


FU type for single roller chains in accordance with DIN 8187

LERIPA type No.	Chain dimensions	DIN ISO	B	H	h2	h3	d2	G
FU 1	3/8" x 5/32"		20	15	2.7	4	3.7	9.3
FU 2	3/8" x 7/32"	06 B-1	20	15	2.8	4.2	3.7	9.3
FU 3	1/2" x 3/16"		20	15	2.3	3.4	4	10.8
FU 4	1/2" x 1/4"		20	15	3.2	4.7	4.4	11.8
FU 5	1/2" x 1/4"		20	15	3.5	4.8	4.9	12.8
FU 6	1/2" x 5/16"	08 B-1	25	15	3.5	4.8	4.9	12.8
FU 7	5/8" x 1/4"		25	15	3.6	5.2	5.5	15.4
FU 8	5/8" x 3/8"	10 B-1	25	15	3.6	5.1	5.5	15.4
FU 9	3/4" x 7/16"	12 B-1	25	20	3.9	5.7	6.2	16.9
FU 10	1" x 17 mm	16 B-1	35	25	8.4	9.9	8.9	22.4

FT type for single roller chains in accordance with DIN 8187

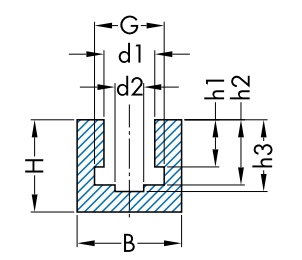
LERIPA type No.	Chain dimensions	DIN ISO	B	H	b	h
FT 1	3/8" x 5/32"		15	10	3.8	1.5
FT 2	3/8" x 7/32"	06 B-1	15	10	5.5	1.5
FT 3	1/2" x 3/16"		15	10	4.7	1.6
FT 4	1/2" x 1/4"		20	10	6.2	2.2
FT 5	1/2" x 5/32"		20	10	6.2	2.2
FT 6	1/2" x 5/16"	08 B-1	20	10	7.5	2.2
FT 7			20	15	7.5	2.2
FT 8			20	20	7.5	2.2
FT 9			20	30	7.5	2.2
FT 10	5/8" x 1/4"		20	10	6.3	2.6
FT 11	5/8" x 3/8"	10 B-1	20	10	9.3	2.6
FT 12			20	15	9.3	2.6
FT 13			20	20	9.3	2.6
FT 14			20	30	9.3	2.6
FT 15	3/4" x 7/16"	12 B-1	25	10	11.3	2.4
FT 16			25	15	11.3	2.4
FT 17			25	20	11.3	2.4
FT 18			25	30	11.3	2.4
FT 19	1" x 17 mm	16 B-1	40	15	16.5	3.5
FT 20			40	20	16.5	3.5
FT 21			40	30	16.5	3.5
FT 22	1 1/4" x 3/4"	20 B-1	45	15	19	4.2
FT 23	1 1/2" x 1"	24 B-1	60	15	24.7	5.5
FT 24	1 3/4" x 31 mm	28 B-1	70	20	30.1	6.8
FT 25	2" x 31 mm	32 B-1	70	20	30.1	7.7



FTT type for double roller chains in accordance with DIN 8187

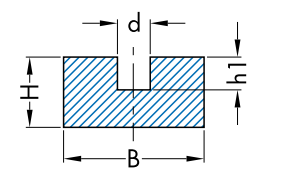
LERIPA type No.	Chain dimensions	DIN ISO	B	H	b	h	E
FTT 1	3/8" x 7/32"	06 B-2	25	10	5.5	1.5	15.7
FTT 2	1/2" x 5/16"	06 B-2	35	10	7.5	2.2	21.4
FTT 3			35	15	7.5	2.2	21.4
FTT 4			35	20	7.5	2.2	21.4
FTT 5			35	30	7.5	2.2	21.4
FTT 6	5/8" x 3/8"	10 B-2	40	10	9.3	2.6	25.9
FTT 7	3/4" x 7/16"	12 B-2	45	10	11.3	2.4	30.7
FTT 8	1" x 17 mm	16 B-2	70	15	16.5	3.5	48.3
FTT 9	1 1/4" x 3/4"	20 B-2	80	15	19	4.3	55.3
FTT 10	1 1/2" x 1"	24 B-2	105	20	24.7	5.5	73.1
FTT 11	1 3/4" x 31 mm	28 B-2	125	25	30.1	6.8	89.7
FTT 12	2" x 31 mm	32 B-2	125	30	30.1	7.7	88.7

FKS type for single roller chains (divided) in accordance with DIN 8187



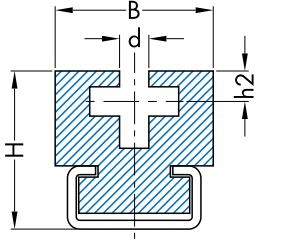
LERIPA type No.	Chain dimensions	DIN ISO	B	H	h1	h2	h3	d1	d2	G
FKS 1	3/8" x 5/32"		20	25	3.8	5.8	8	6.6	4	9.3
FKS 2	3/8" x 7/32"	06 B-1	20	25	5.6	8.7	9.9	6.6	4	9.3
FKS 3	1/2" x 3/16"		20	25	4.7	7.4	8.3	8	4	10.8
FKS 4	1/2" x 1/4"		24	30	6.2	9.8	11.2	8	5	11.8
FKS 5	1/2" x 1/4"		24	30	6.2	10.2	11.3	8.7	5	12.8
FKS 6	1/2" x 5/16"	08 B-1	24	30	7.5	11.5	12.7	8.7	5	12.8
FKS 7	5/8" x 1/4"		30	30	6.2	10.3	11.7	10.4	6	15.4
FKS 8	5/8" x 3/8"	10 B-1	30	35	9.4	13.5	14.8	10.4	6	15.4
FKS 9	3/4" x 7/16"	12 B-1	40	35	11.5	15.9	17.5	12.3	7	16.9
FKS 10	1" x 17 mm	16 B-1	40	45	16.8	25.7	26.8	16.1	10	22.4
FKS 11	1 1/4" x 3/4"	20 B-1	50	50	19.4	29.3	31.2	19.3	11	27.5
FKS 12	1 1/2" x 1"	24 B-1	60	60	25.2	38.2	40.1	25.7	16	36.5
FKS 13	1 3/4" x 31 mm	28 B-1	60	70	30.8	46.9	48.9	28.3	17	41.5
FKS 14	2" x 31 mm	32 B-1	70	75	30.8	47.3	53	29.6	19	44.5

Chain guides for round link chains



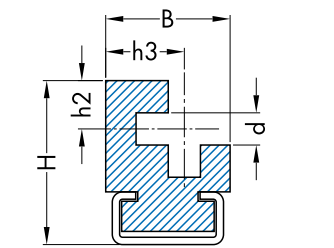
RU type slide rails for round link chains in accordance with DIN 766 and DIN 764

LERIPA type No.	Chain designation	B	H	d	h1
RU 6	6	30	15	7	7
RU 8	8	35	20	9	9
RU 10	10	45	25	11	11
RU 13	13	55	30	15	15



CRU type slide rails for round link chains in accordance with DIN 766 and DIN 764

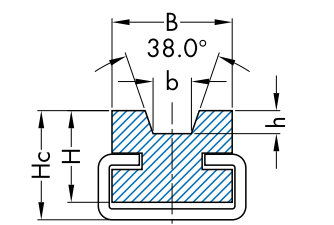
LERIPA type No.	Chain designation	C profile No.	B	H	d	h2
CRU 6	6	C9	45	45	7	8
CRU 8	8	C9	50	50	9	9.5
CRU 10	10	C9	50	60	11	14



CRUV type slide rails for round link chains in accordance with DIN 766 and DIN 764

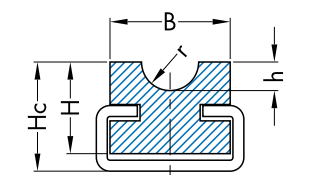
LERIPA type No.	Chain designation	C profile No.	B	H	d	h2	h3
CRUV 6	6	C3	27	34	7	10.5	17.5
CRUV 8	8	C5	32	42	9	12.5	20.5
CRUV 10	10	C9	42.5	56	11	16.5	25.5

Belt guides



KFC type v-belt guide with steel C profile (also available without steel C profile)

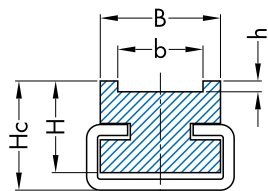
LERIPA type No.	Belt No.	C profile No.	B	H	Hc	h	b
KFC 8	8	C3	16.5	12	15	3.5	5
KFC 10	10	C3	16.5	15	18	4.5	6.5
KFC 13	13	C5	22	18	22	6	8.5
KFC 17	17	C5	22	20	24	8	10.5
KFC 20	20	C5	28	20	24	9	12.5
KFC 22	22	C9	32	25	30	10.5	14
KFC 25	25	C9	32	27	32	12	15.5
KFC 32	32	C9	38	35	40	16	20
KFC 40	40	C9	50	40	45	21	25



RFC type round belt guide with steel C profile (also available without steel C profile)

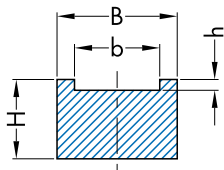
LERIPA type No.	Belt No.	C profile No.	B	H	Hc	h	r
RFC 5	5	C3	16.5	12	15	3	3
RFC 6	6.3	C3	16.5	15	18	4	4
RFC 8	8	C3	16.5	15	18	5	5
RFC 10	9.5	C5	22	16	20	6	6
RFC 12	12.5	C5	22	16	20	8	7
RFC 15	15	C9	32	20	25	10	9
RFC 18	18	C9	32	20	25	12	10

FRC type toothed belt guide with steel C profile



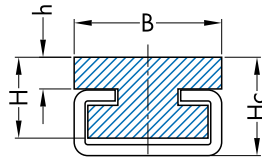
LERIPA type No.	Belt type	Belt Width	C profile No.	B	H	Bc	Hc	b	h
FRC 2.4	T 2,5	4	C3	10	8	20	12	5	1
FRC 2.6		6	C3	12	8	20	12	7	1
FRC 2.8		8	C3	15	8	20	12	9	1
FRC 2.10		10	C3	19	8	20	12	11	1
FRC 2.12		12	C5	21	8	28	12	13	1
FRC 5.6	T 5	6	C3	12	10	20	14	7	1.8
FRC 5.8		8	C3	15	10	20	14	9	1.8
FRC 5.10		10	C3	19	10	20	14	11	1.8
FRC 5.12		12	C5	21	10	28	14	13	1.8
FRC 5.16		16	C5	25	10	28	14	17	1.8
FRC 5.20		20	C9	30	10	38	14	21	1.8
FRC 5.25		25	C9	35	12	38	18	26	2
FRC 5.32		32	C11	42	12	45	18	33	2
FRC 10.10	T 10	10	C3	19	12	20	18	20	3.8
FRC 10.12		12	C5	21	12	28	18	13	3.8
FRC 10.16		16	C5	25	12	28	18	17	3.8
FRC 10.20		20	C9	30	12	38	18	21	3.8
FRC 10.25		25	C9	35	12	38	18	26	3.8
FRC 10.32		32	C11	42	12	45	18	33	3.8
FRC 10.50		50	C11	60	15	45	20	51	4

FR type toothed belt guide



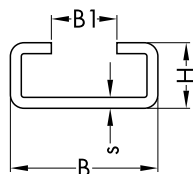
LERIPA type No.	Belt type	Belt Width	B	H	b	h
FR 2.4	T 2,5	4	10	8	5	1
FR 2.6		6	12	8	7	1
FR 2.8		8	15	8	9	1
FR 2.10		10	19	8	11	1
FR 2.12		12	21	8	13	1
FR 5.6	T 5	6	12	10	7	1.8
FR 5.8		8	15	10	9	1.8
FR 5.10		10	19	10	11	1.8
FR 5.12		12	21	10	13	1.8
FR 5.16		16	25	10	17	1.8
FR 5.20		20	30	10	21	1.8
FR 5.25		25	35	12	26	2
FR 5.32		32	42	12	33	2
FR 10.10	T 10	10	19	12	11	3.5
FR 10.12		12	21	12	13	3.5
FR 10.16		16	25	12	17	3.5
FR 10.20		20	30	12	21	3.5
FR 10.25		25	35	12	26	3.5
FR 10.32		32	42	12	33	3.5
FR 10.50		50	60	15	51	3.8
FR 10.75		75	85	15	76	3.8
FR 10.100		100	110	15	101	3.8

Flat profile guides



LERIPA type No.	C profile No.	B	H	hc	h
CF 3.1	C3	20	10	14	4
CF 3.2	C3	20	15	17	7
CF 3.3	C3	20	18	20	10
CF 6.1	C5	28	10	16	4
CF 6.2	C5	28	15	19	7
CF 9.1	C9	38	12	22	4
CF 9.2	C9	38	20	25	7

Galvanised steel C profiles



C rails made from galvanised steel for use as brackets on our ROBOLON plastic slide rails.
The C profiles can be screw-fixed or welded. Sliding the plastic guides onto the C rails is then extremely easy. Max. length up to 6 m.

LERIPA type No.	B	H	B1	s
C3	20	10	10	1.5
C5	28	12	14	2
C9	38	18	22	2.5
C10	30	24	20	1.5
C11	45	40	31	2

Linear guides



Linear guide

ALL DESIGNS possible, based on customer requirements



Slide guide



Slide bushing for a telescopic crane



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Panels Normal format

Thickness, length, and width available in mm increments
Thickness tolerance: ± 0.2 mm

Thickness	Length	Width
8 to 160	Max. 12,000	Max. 1,000

Panels Wide format

Thickness, length, and width available in mm increments
Thickness tolerance: ± 0.3 mm

Thickness	Length	Width
15 to 130	Max. 8,000	Max. 1,300

Thin panels

Length and width available in mm increments
Thickness tolerance: ± 0.2 mm

Thickness	Length	Width
2	Max. 5,000	Max. 600
3	Max. 5,000	Max. 600
4	Max. 5,000	Max. 600
5	Max. 5,000	Max. 1,000
6	Max. 5,000	Max. 1,000
7	Max. 5,000	Max. 1,000

Round discs

Diameter and thickness available in mm increments
Thickness tolerance: ± 0.3 mm

Thickness	Diameter
15 to 120	Max. \varnothing 1,300

Round rods

Diameter	Standard length	Special length	Diameter tolerance
\varnothing 8	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 10	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 12	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 15	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 20	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 25	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 30	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 35	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 40	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 50	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 60	1,000	Max. 10,000	+1.3 / +0.7
\varnothing 70	1,000	-	+1.5 / +0.5
\varnothing 80	1,000	-	+1.5 / +0.5
\varnothing 90	1,000	-	+1.5 / +0.5
\varnothing 100	1,000	-	+1.5 / +0.5
\varnothing 110	1,000	-	+1.5 / +0.5
\varnothing 120	1,000	-	+1.5 / +0.5
\varnothing 130	1,000	-	+1.5 / +0.5
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\varnothing 150	1,000	-	+1.5 / +0.5

All dimensions in mm

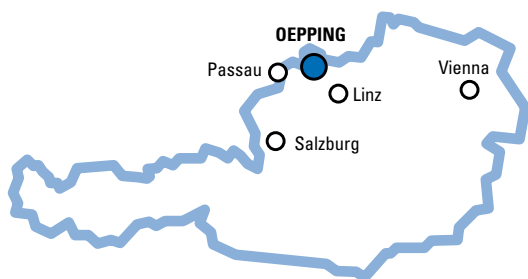


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We wish to point out that all the information contained in this brochure reflects our experience (subject to further technical investigations). However, we cannot accept liability for the results when ROBALON is used.