

**Polystone® M (PE-UHMW/PE 1000)**

# **Extrudierte Profile**

## **Extruded Profiles**



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## Einzigartige Auswahl an extrudierten Profilen aus Polystone® M (PE-UHMW/PE 1000)

### Einzigartige Auswahl

Entwickler und Hersteller von Anlagen und Maschinen in der Förder- und Handhabungstechnik, der Lager- und Verpackungsindustrie sowie der Getränke- und Abfüllindustrie setzen auf Bauteile aus thermoplastischen Kunststoffen. Extrudierte Profile sind dabei ein wichtiger Bestandteil. Sie sind dort im Einsatz, wo gute Gleiteigenschaften bei gleichzeitig großer Verschleiß- und Abriebfestigkeit verlangt werden.

Ob Abdeck- oder Clip-Profil, Z-, L-, U-, C-, T- oder Vierkantprofil, ob komplexe Geometrien, spezielle Oberflächenstrukturen oder dünne Wandstärken – Ihnen steht das umfangreichste Fertigungsprogramm an extrudierten Standardprofilen oder individuell für Sie gefertigten Sonderprofilen zur Verfügung. Unser erfahrenes Team berät Sie umfassend bei der Auswahl des richtigen Querschnitts.

## Unique selection of extruded profiles made of Polystone® M (PE-UHMW/PE 1000)

### Unique selection

Developers and manufacturers of plant and machinery used in conveyor and material handling technology, the storage and packaging industry and the bottling and beverage industry rely on thermoplastic components. Extruded profiles are a key part of these. They are used wherever good slide characteristics are demanded alongside high wear and abrasion resistance.

Whether you need cover- or clip-profiles, Z-, L-, U-, C-, T- or square-profiles, complex geometries, special surface structures or thin wall thicknesses, you can choose from the most extensive range of extruded standard profiles or special profiles customised just for you. Our experienced team will provide comprehensive advice to help you select the right cross-section.



## Prozess der Profilextrusion

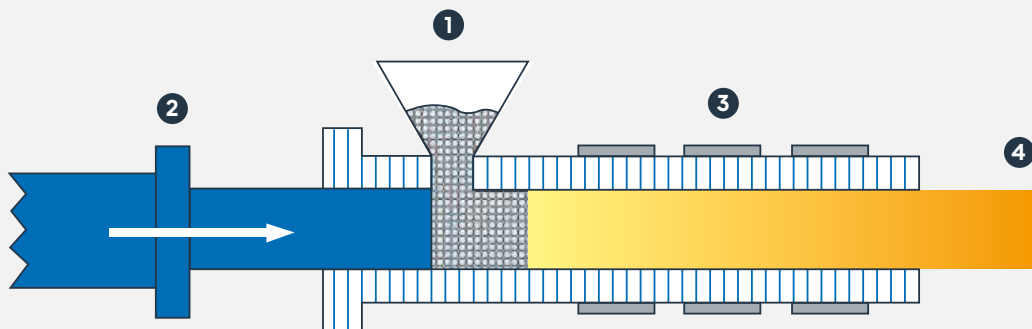
Bei der Profilextrusion wird der Rohstoff – eine Pulvermischung aus PE-UHMW, Additiven und Farbpigmenten – unter hohem Druck durch ein beheiztes Werkzeug gedrückt. Das Material wird plastisch und nimmt die Form des Werkzeuges an. Nach Verlassen des Werkzeuges ist ein kontrolliertes Abkühlen wichtig, um innere Spannungen auszugleichen und ein Verziehen des Profils zu vermeiden.

Bei hoher Temperatur dehnt sich der Werkstoff aus und zieht sich beim anschließenden Erkalten wieder zusammen. Daher ist die exakte Auslegung des Werkzeuges besonders wichtig, um im fertigen Profil die Form und die vorgegebenen Toleranzen einzuhalten.

## The profile extrusion process

In profile extrusion, the raw material – a powder mixture of PE-UHMW, additives and colouring pigments – is forced through a heated tool under high pressure. The material becomes plastic and takes on the form of the tool. After leaving the tool, controlled cooling is essential in order to equalize internal stresses and prevent the profile warping.

The material expands at high temperature and then contracts again as it subsequently cools down. This means it is particularly important to configure the tool precisely so that the form and prescribed tolerances are kept in the finished profile.



- 1 Trichter:** Polystone® M (PE-UHMW/PE 1000) wird in Form einer Pulvermischung über einen Trichter zugeführt  
**Funnel:** Polystone® M (PE-UHMW/PE 1000) is fed in as a powder mixture through a funnel
- 2 Hydraulikzylinder:** Der Kolben transportiert das Pulver unter hohem Druck in das Werkzeug  
**Hydraulic cylinder:** The piston transports the powder into the tool under high pressure
- 3 Werkzeug:** Das beheizte Werkzeug gibt dem Profil den gewünschten Querschnitt  
**Tool:** The heated tool gives the profile its desired cross-section
- 4 Abkühlen und Zuschneid:** Abkühlen Ihres Profils und Zuschneiden auf die gewünschte Länge  
**Cooling and blank cutting:** Your profile is cooled and cut to the desired length

# Polystone® M (PE-UHMW/PE 1000)

Polystone® M ist ein Werkstoff mit außergewöhnlichen Eigenschaften. Das ultrahochmolekulare Polyethylen löst als extrudiertes Profil Reibungs-, Verschleiß- und Materialflussprobleme in zahlreichen technischen Anwendungen. Die moderne Förder- und Handhabungstechnik, Lager- und Verpackungssysteme oder die Getränke- und Abfüllindustrie kommen heute ohne diesen Hochleistungswerkstoff nicht mehr aus.



## Hervorragende Gleiteigenschaften

Dank des geringen Gleitreibungskoeffizienten können extrudierte Profile aus Polystone® M die **benötigte Antriebsenergie** in Fördersystemen **reduzieren** und die Stabilität der **Prozesse erhöhen**. Dabei verfügt Polystone® M über dauerhaft selbstschmierende Eigenschaften.



## Extreme Verschleißfestigkeit/Lange Betriebsdauer

Aufgrund der extrem hohen Verschleißfestigkeit halten extrudierte Profile aus PE-UHMW hohen Beanspruchungen langfristig stand.



## Dauer-Einsatztemperatur von -250 bis +80 °C

Extrudierte Profile von Röchling sind in einer Vielzahl an Anwendungen mit hohen und sehr niedrigen Temperaturen im Einsatz: beispielsweise in Spiralfrosteren oder Kühlhäusern.



## Umweltschonend durch 100 %ige Recyclingfähigkeit



## Lebensmitteltauglichkeit bereits für viele Rezepturen verfügbar (gem. EU 10/2011 und FDA)



## Hohe Schlagzähigkeit

# Polystone® M (PE-UHMW/PE 1000)

Polystone® M is a material with exceptionally properties. As an extruded profile, this polyethylene of ultrahigh molecular weight solves problems of friction, wear and material flow in countless technical applications. Modern conveyor and material handling technology, storage and packaging systems and the bottling and beverage industry could not do without this high-performance material today.



## Outstanding slide characteristics

Their low slide friction coefficients enable extruded profiles made of Polystone® M to **reduce the drive energy** required in conveyor systems and **increase the stability of processes**. Polystone® M also has particularly long-lasting self-lubrication properties.



## Extreme wear resistance/long service life

Extruded profiles made of PE-UHMW can withstand high long-term stresses thanks to their extremely high wear resistance.



## Continuous operating temperature from -250 to +80 °C

Extruded profiles from Röchling are used in a large number of applications involving high and very low temperatures, such as spiral frosters or cold stores.



## Environmentally friendly 100 % recyclable



## Suitability for use with foods already available for many recipes (as per EU 10/2011 and FDA)



## High impact strength



### **Weitere Eigenschaften von extrudierten Profilen aus Polystone® M:**

- Sehr gute Beständigkeit gegen Chemikalien
- Fast keine Wasseraufnahme
- Hohe Widerstandsfähigkeit gegen Bruch oder Rissbildung
- Nur geringfügige Anhaftung an den Oberflächen

#### **Zahlreiche Modifikationen möglich:**

- Antistatisch (AST)
- Flammhemmend ausgestattet
- Antimikrobiell ohne Einsatz toxischer Zusätze
- Glaskugelgefüllt
- Nahezu jede gewünschte Farbe herstellbar
- Gleitmittelmodifiziert
- Hitzestabilisiert (reduzierte Wärmealterung)
- UV-stabilisiert

### **Other properties of extruded profiles made of Polystone® M:**

- Very high resistance to chemicals
- Almost no moisture absorption
- High resistance to fracture or cracking
- Only slight adhesion to surfaces

#### **Numerous modifications possible:**

- Antistatic (AST)
- Flame retardant finish
- Antimicrobial without the use of toxic additives
- Glass bead filling
- Almost any colour desired can be produced
- Lubricant modified
- Heat stabilised (reduced heat ageing)
- UV resistant

## Einzigartige Fertigungsmöglichkeiten

Wir fertigen Ihre Profile auf modernsten Extrusionsanlagen mit im Markt einzigartigen Fertigungsmöglichkeiten: Ob Abdeck- oder Clip-Profil, Z-, L-, U-, C-, T- oder Vierkantprofil, ob komplexe Geometrien, dünne Wandstärken oder hochglänzende und besondere Oberflächenstrukturen – Ihnen steht das im Markt wohl umfangreichste Fertigungsprogramm an Standardprofilen oder für Sie exklusiv gefertigten Sonderprofilen zur Verfügung.

## Beratung und eigener Werkzeugbau

Bei Entwicklung und Design Ihres Spezialprofils nach Ihren individuellen Vorgaben beraten Sie unsere erfahrenen Techniker und Werkzeugbauer, um ein optimal funktionierendes Ergebnis für Ihre Anwendung zu erzielen. Unser eigener Werkzeugbau bietet dabei höchste Präzision, Schnelligkeit und eine optimale Abstimmung des Werkzeugs auf den verwendeten Kunststoff.

## Unique manufacturing options

We manufacture your profiles on the very latest extrusion systems with unique manufacturing options: whether you need cover- or clip-profiles, Z-, L-, U-, C-, T- or square-profiles, complex geometries, thin wall thicknesses or high-gloss and special surface structures, you can choose from the most extensive range of standard profiles or special profiles customised exclusively for you.

## Consulting and in-house toolshop

Our experienced engineers and toolmakers will give you advice on how to design and develop your special profile to meet your own particular requirements so that you achieve the outcome that works best for your application. Our in-house toolshop offers maximum precision, speed and the optimum configuration of the tool to the plastic used.



### Zahlreiche Vorteile

- In den meisten Fällen deutlich günstiger als das zerspante Profil
- Eigener Werkzeugbau
- Komplexe Geometrien möglich
- Querschnitte realisierbar, die nicht spanabhebend hergestellt werden können
- Dünne Wandstärken ab 1,5 mm
- Keine Längenbegrenzung
- Kein Materialverlust
- Homogene, glatte Oberfläche



### Numerous advantages

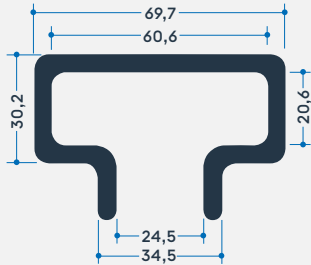
- In most cases much cheaper than machined profiles
- In-house toolshop
- Complex geometries possible
- Possibility of cross-sections that cannot be produced by machining processes
- Thin wall thicknesses from 1.5 mm
- No limits on length
- No loss of material
- Smooth, homogeneous surface



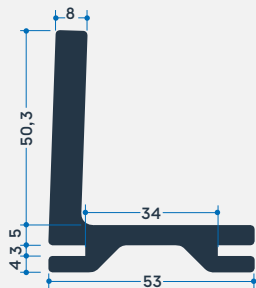
Die Fertigung von Profilen im Extrusionsverfahren bietet im Vergleich zur spanabhebenden Herstellung je nach Profilquerschnitt **Vorteile** hinsichtlich der **Wirtschaftlichkeit** und **technischen Realisierbarkeit**.

Depending on the profile cross-section, the manufacture of profiles in an extrusion process offers advantages over machining processes in terms of **economy** and **technical feasibility**.

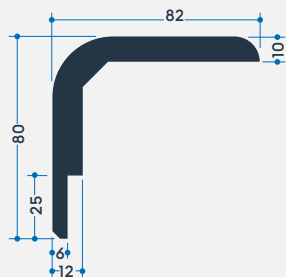
## Wirtschaftlichkeit Economy



**R343**  
C-Profil  
C-profile



**R361**  
Spezial-Profil  
Special-profile

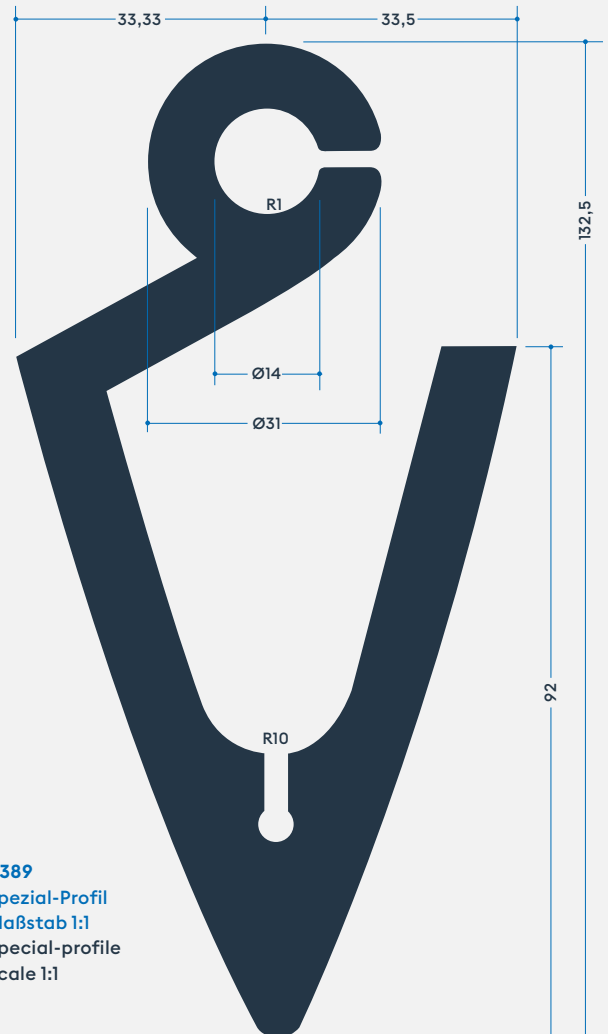


**R259**  
Spezial-Profil  
Special-profile

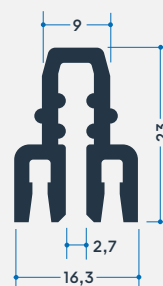
Beispiele für Profile, die bei spanabhebender Fertigung einen hohen Materialverlust und Zerspannungsaufwand verursachen und deswegen wirtschaftlich nicht gefertigt werden können. Die Extrusion bietet hier einen klaren Vorteil, da Profile mittels eines Formwerkzeuges produziert und somit ohne jeglichen Materialverlust hergestellt werden.

Examples of profiles that entail significant loss of material and machining expenditure in machining processes and so cannot be manufactured cost-effectively. Extrusion offers a clear advantage here as profiles can be produced using a die, meaning there is no loss of material whatsoever.

## Technische Realisierbarkeit Technical feasibility



**R389**  
Spezial-Profil  
Maßstab 1:1  
Special-profile  
Scale 1:1



**R242**  
Spezial-Profil  
Maßstab 1:1  
Special-profile  
Scale 1:1



**R355**  
Spezial-Profil  
Maßstab 1:1  
Special-profile  
Scale 1:1

Beispiele für Profile, die aufgrund der Geometrie spanabhebend nicht oder nur sehr aufwendig hergestellt werden können. Im Extrusionsverfahren gibt es diesbezüglich kaum Beschränkungen und es kann daher fast jede erdenkliche Profilform problemlos realisiert werden.

Examples of profiles whose geometry makes it impossible or complex to produce in machining processes. There are hardly any restrictions in this regard in an extrusion process, so almost every conceivable profile form can be realised without any problem.

## Weiterverarbeitung und Service

### Weiterverarbeitung und Service

Unsere Weiterverarbeitungsmöglichkeiten und unser Service runden das umfangreiche Angebot an extrudierten Profilen ab:

- Stanzen von Befestigungslöchern und Profilkonturen
- Einbringen von Bohrungen und Einschraubbohrungen
- Kombination mit Stahlprofilen
- Spanende Endbearbeitung des extrudierten Profils
- Zuschnitt auf Länge
- Lieferung auf Rolle

### Zerspante Profile

Für Prototypen oder Bedarfsmengen, für die die Erstellung eines Extrusionswerkzeuges nicht wirtschaftlich ist, können wir Profile auch durch spanabhebende Bearbeitung herstellen. Hierfür setzt Röchling moderne Profilfräsaufmaschinen ein, mit denen auch anspruchsvolle Querschnitte hergestellt werden können. Als Hersteller von Kunststoffhalbzeugen verfügen wir über die notwendigen hochwertigen Materialien.

## Finishing and service

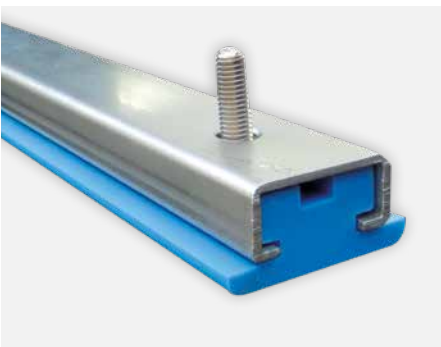
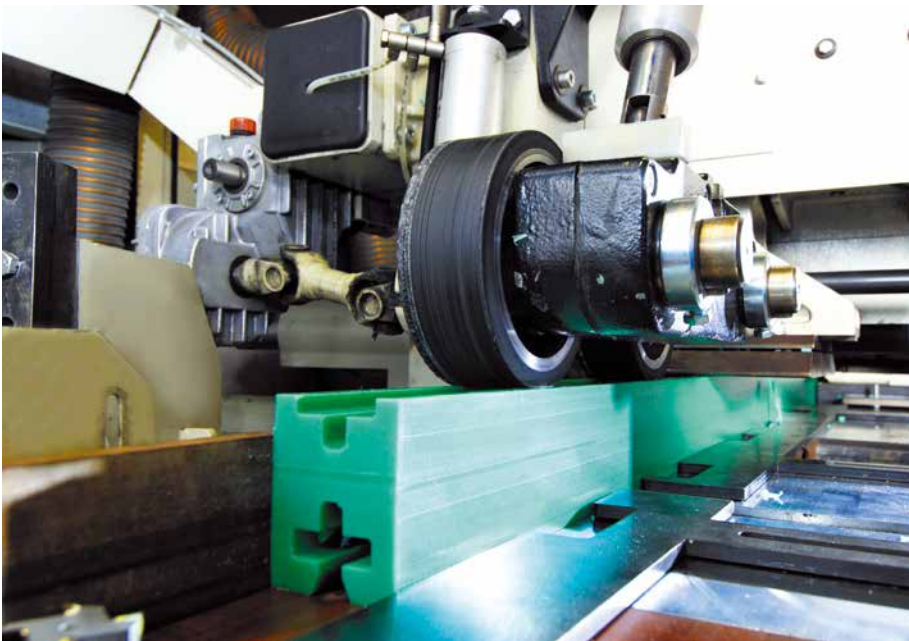
### Finishing and service

The comprehensive range of extruded profiles is rounded off by finishing options and our package of services:

- Punching fixing holes and profile end contours
- Insertion of screw and plain holes
- Combination with steel profiles
- Final machining of the extruded profile
- Cutting to length
- Supplied as a roll

### Machined profiles

For prototypes or quantities for which the manufacture of an extrusion tool is not economically viable, we can also produce profiles through machining processes. To do so Röchling uses modern profile milling machines that allow even complex cross-sections to be produced. As a manufacturer of semi-finished plastic products, we have the high-grade materials required.



# Forschung und Entwicklung

## Research and development

### Mehrwert für unsere Kunden

- Produkt- und Werkstoffentwicklung
- Modifikation bestehender Rezepturen
- Praxisnahe Versuchsanlagen
- Zusammenarbeit mit Wissenschaftlern
- Moderne Werkstofflabors

### More value for our customers

- Product and materials development
- Modification of existing compositions
- Practical testing facilities
- Cooperation with scientists
- State-of-the-art materials laboratory



## Wettbewerbsvorteile durch Innovation

Das Thema Innovation hat bei Röchling höchste Priorität. So präsentieren wir dem Markt Produktentwicklungen, die unseren Kunden Wettbewerbsvorteile bieten.

In unseren gut ausgestatteten Werkstofflabors und in enger Kooperation mit Lieferanten, Wissenschaftlern und Instituten entwickeln wir zu den Aufgabenstellungen unserer Kunden neue Produkte und Herstellungsverfahren.

Das Qualitätsmanagementsystem unserer Unternehmen nach DIN EN ISO 9001 wird regelmäßig in Audits überprüft und dessen Einhaltung sichergestellt. Außerdem unterziehen wir unsere Produkte in allen Phasen des Produktionsprozesses permanenten Kontrollen.

Durch die Mitarbeit in zahlreichen Gremien und Ausschüssen stellen wir uns aktiv in den Dienst der Branchen und definieren so die Qualitätsstandards der Zukunft.

## Competitive advantages through innovation

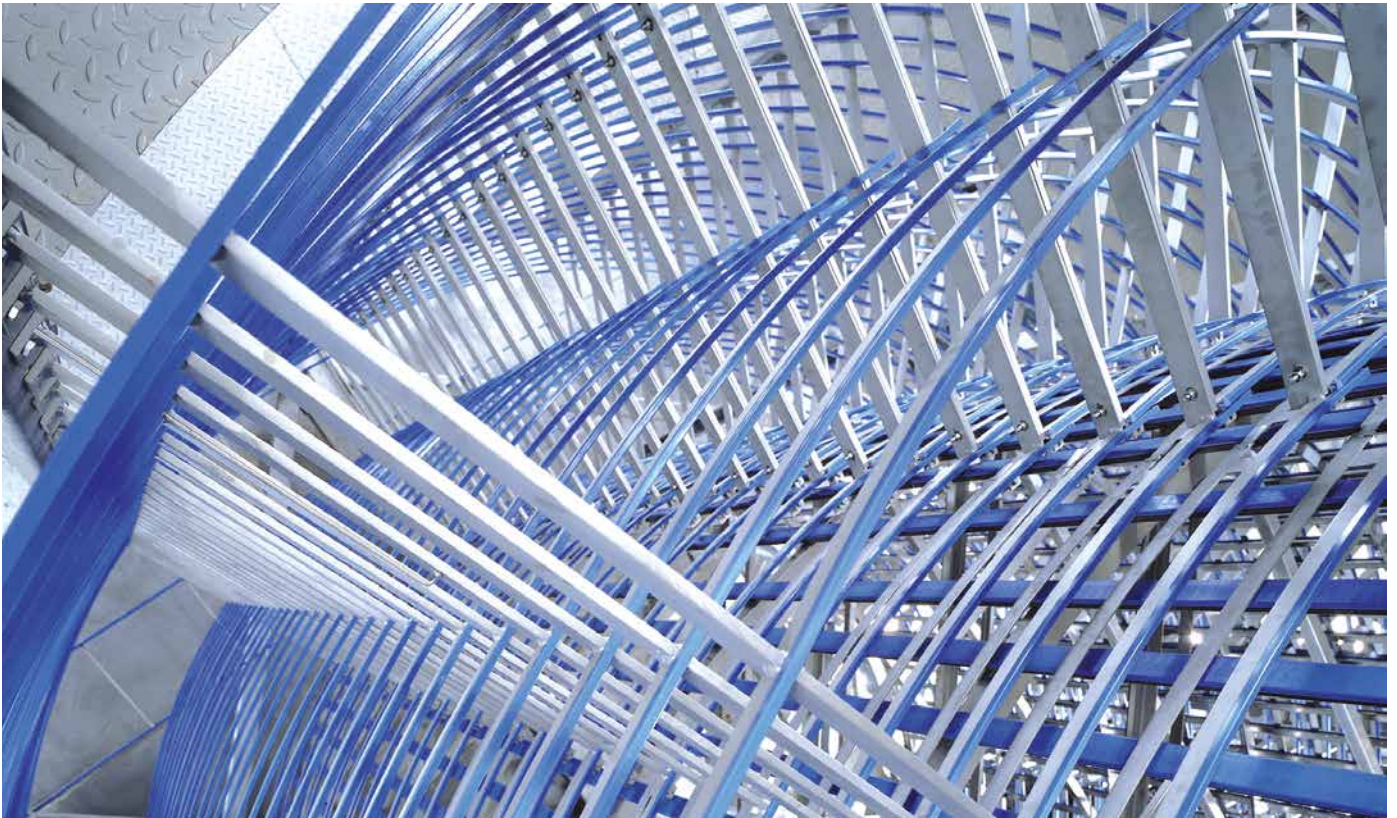
At Röchling, our top priority is innovation. This allows us to present the market with product developments that provide our customers with competitive advantages.

We develop new products and manufacturing processes to fit the specific problem definitions of our customers in our excellently outfitted materials laboratory, and in close cooperation with suppliers, scientists and institutes.

Our quality management system is regularly inspected in audits in accordance with DIN EN ISO 9001 and its compliance ensured. Moreover, our products undergo ongoing controls in all phases of the production process.

We actively engage in serving the industries through our collaboration with numerous advisory boards and committees, and thus, help define the quality standards of the future.





Spiralfroster mit extrudierten Profilen aus LubX®  
Spiral froster with extruded profiles made of LubX®



Kurvenführung, LubX® C  
Slide guide, LubX® C



Extrudiertes Profil als Handlauf einer Eishockey-Bande  
Extruded profile as handrail on an ice hockey board

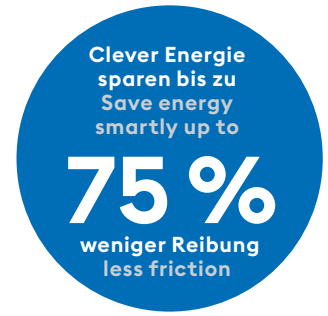


Kettenführungsprofil  
Chain guide profile

Schlitten mit Kufen  
aus extrudierten Profilen  
Carriage with runners made  
from extruded profiles

Spezialprofil für eine  
Getränkeabfüllanlage  
Special profile for a  
drinks bottling plant





# Hochleistungs-Gleitwerkstoffe für Fördertechnik und Automatisierung

## High performance friction materials for handling and automation

### Energieeffizienz verbessern

Bei langfristig steigenden Energiepreisen spielt die Senkung der Energiekosten bei der Projektierung von Produktions-, Lager- und Logistikprozessen eine immer bedeutendere Rolle. Der Einsatz gleitoptimierter Komponenten in einem Förderprozess kann die benötigte Förderkraft – und somit die eingesetzte Energie – auf ein Minimum verringern. Die Leistungsfähigkeit und Effizienz der Anlage kann so deutlich verbessert werden.

### Gleitreibungskoeffizient reduziert

Speziell für Anwendungen in der Förder- und Automatisierungstechnik hat Röchling mit LubX® C und LubX® S zwei neue, PE-1000-basierte Hochleistungswerkstoffe entwickelt, die über herausragende Trockenlaufeigenschaften verfügen. Der Gleitreibungskoeffizient konnte um bis zu 75 % reduziert werden. Im Vergleich zu herkömmlichen Gleitwerkstoffen benötigen mit LubX® ausgestattete Fördersysteme deutlich weniger Energie, die Prozessstabilität wird erhöht und der Geräuschpegel erheblich verringert.

### Improve energy efficiency

With energy prices rising in the long term, lowering energy costs plays an increasingly more important role in the project planning of production, storage and logistic processes. When utilising components with optimized sliding properties in conveying processes, the conveying power required – and thus the energy applied – may be reduced to a minimum. The performance and efficiency of the plant can thus be considerably enhanced.

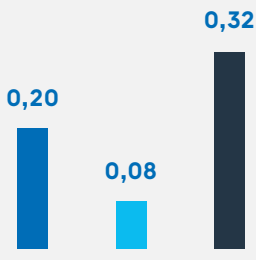
### Reduced coefficient of friction

In LubX® C and LubX® S, Röchling has developed two new, PE-1000-based high-performance materials with outstanding dry running properties especially for use in materials-handling technology and automation. The slide friction coefficient has been reduced by as much as 75 %. When compared to conventional slide materials, conveyor systems equipped with LubX® require significantly less energy, process stability is increased and the noise level is considerably reduced.

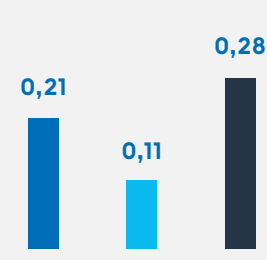
## Gleiteigenschaften im Vergleich

### Comparison of sliding properties

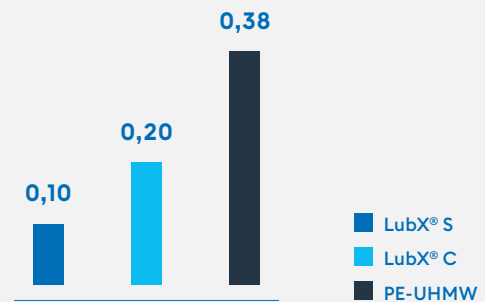
Gleitpartner POM  
Sliding partner POM



Gleitpartner Stahl  
Sliding partner Steel



Gleitpartner PET  
Sliding partner PET



Gleitreibungskoeffizienten unter Trockenbedingungen, auf anwendungsnahe Röchling-Tribologieprüfstand validiert, Geschwindigkeit: 0,25 m/s, Flächenpressung: 0,25 MPa, Prüfzeit: 24 h

Coefficients of sliding friction under dry conditions, validated on the application-related Röchling tribology test stand, Speed: 0,25 m/s, Surface pressure: 0,25 MPa, Test time: 24 h

# LubX<sup>®</sup> CV

## Für höhere Geschwindigkeit und Produktivität

Mit LubX<sup>®</sup> S und LubX<sup>®</sup> C hat Röchling im Jahr 2012 zwei Gleitwerkstoffe für die Fördertechnik vorgestellt, deren Gleiteigenschaften gezielt auf ihren jeweiligen Gleitpartner hin optimiert wurden.

Speziell für Anlagen, die mit höheren Geschwindigkeiten und somit höherer Produktivität betrieben werden sollen, hat Röchling nun LubX<sup>®</sup> CV entwickelt. LubX<sup>®</sup> CV verfügt über außergewöhnlich gute Gleiteigenschaften bei gleichzeitig niedrigster Temperaturentwicklung. Beides hat einen geringeren Abrieb und eine lange Lebensdauer des gesamten Systems zur Folge.

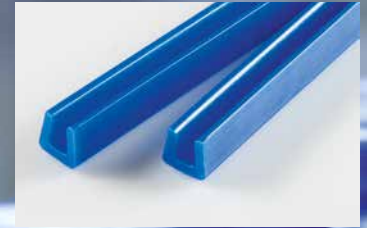
In wissenschaftlichen Untersuchungen mit der Technischen Universität Chemnitz, Institut für Fördertechnik und Kunststoffe, und der Universität Erlangen, Lehrstuhl für Kunststofftechnik, hat LubX<sup>®</sup> CV den hohen Anspruch bestätigt. Lassen Sie sich von Fakten überzeugen.

## For higher speed and better productivity

In 2012 Röchling introduced two sliding materials for the conveyor industry: LubX<sup>®</sup> S and LubX<sup>®</sup> C. Both materials' sliding properties have been optimized specifically for their respective sliding partners.

Röchling has now developed LubX<sup>®</sup> CV: Especially for systems to be operated at higher speeds and therefore higher productivity. LubX<sup>®</sup> CV has exceptionally good sliding properties and at the same time exhibits a very low temperature development. Both results in lower wear and a longer lifespan of the entire system.

In scientific studies in cooperation with the Technical University of Chemnitz, Institute for Material Handling and Plastics, and the University of Erlangen, Institute of Polymer Technology, LubX<sup>®</sup> CV has met the high demands. Let the facts convince you.



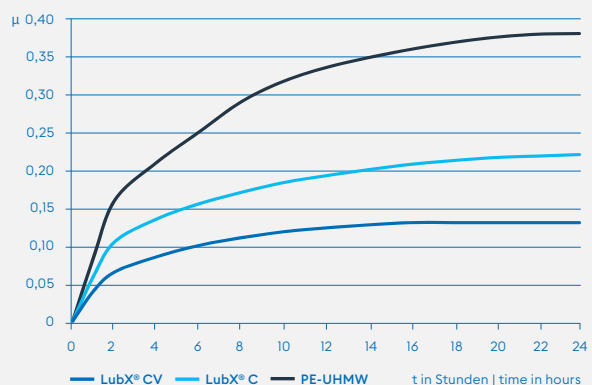
## Niedriger Gleitreibungskoeffizient

Die Prüfungen wurden im unternehmenseigenen Werkstofflabor auf einem in Kooperation mit Wissenschaftlern entwickelten Tribologie-Prüfstand durchgeführt. Um das Prüfverfahren an die gesteigerten Anforderungen anzupassen, wurden für den anwendungsnahen Test die Bedingungen deutlich erhöht: Die Geschwindigkeit wurde auf 0,5 m/s und die Flächenpressung auf 0,5 MPa verdoppelt. Unter diesen gestiegenen Anforderungen verfügt LubX<sup>®</sup> CV mit nur  $\mu$ : 0,13 über den mit Abstand niedrigsten Gleitreibungskoeffizienten und die kürzeste Einlaufphase.

## Low Coefficient of Sliding Friction

The tests were carried out at the company's materials laboratory on a tribology test apparatus developed in cooperation with scientists. In order to adapt the test procedure to the increased requirements, the conditions were significantly increased for the application-oriented test: The speed was doubled to 0.5 m/s and the surface pressure was doubled to 0.5 MPa. Under these increased demands LubX<sup>®</sup> CV exhibited by far the lowest coefficient of sliding friction at only  $\mu$ : 0.13 and the shortest run-in phase.

## Gleitreibungskoeffizient Coefficient of Sliding Friction

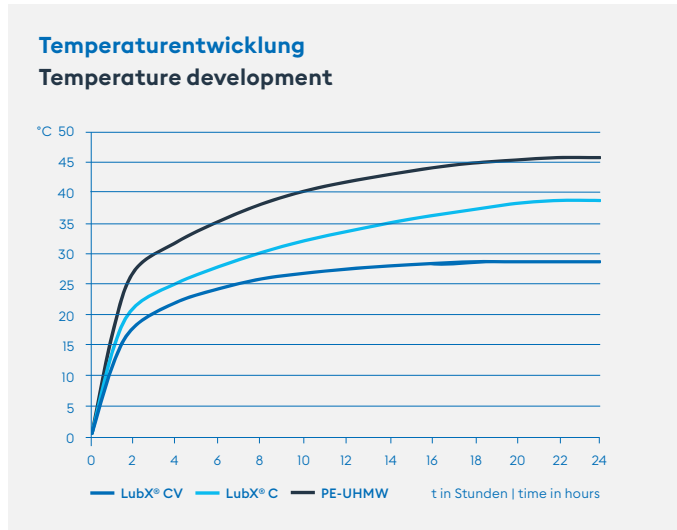


Gleitreibungskoeffizient unter Trockenbedingungen. Auf anwendungsnahem Röchling-Tribologieprüfstand validiert. Geschwindigkeit: 0,5 m/s, Flächenpressung: 0,5 MPa, Prüfzeit: 24 h, Gleitpartner POM

Coefficient of sliding friction under dry conditions, validated on Röchling's application-level tribology test apparatus. Speed: 0.5 m/s, surface pressure 0.5 MPa, test time 24 hours, Sliding partner POM

# Für höhere Geschwindigkeit und Produktivität For higher speed and better productivity

## Geringe Temperaturentwicklung Low temperature development



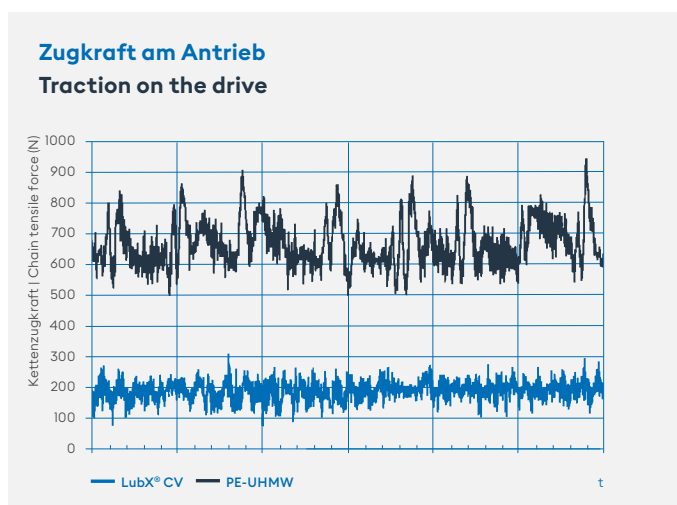
Gleitreibungskoeffizient unter Trockenbedingungen. Auf anwendungsnahem Röchling-Tribologieprüfstand validiert. Geschwindigkeit: 0,5 m/s, Flächen-  
 druck: 0,5 MPa, Prüfzeit: 24 h, Gleitpartner POM

Temperature development under dry conditions, validated on Röchling's application-level tribology test apparatus. Speed: 0.5 m/s, surface pressure 0.5 MPa, test time 24 hours, Sliding partner POM

Während der Prüfung des Gleitreibungskoeffizienten misst ein Infrarotsensor (Pyrometer) berührungslos die Temperaturentwicklung direkt auf der Reibfläche der Probe. Die gemessene Temperatur von LubX® CV stieg im Test nicht über 28 °C und lag bis zu 17 °C unter den anderen Werkstoffproben. Zudem zeigt der Prüfkörper aus LubX® CV nach 24 Stunden nahezu **keine Verschleißerscheinungen**.

During the test of the coefficient of sliding friction, an infrared sensor (pyrometer) measures the temperature development directly on the friction surface of the sample without contacting it. The measured temperature of LubX® CV in the test does not rise over 28 °C, which was up to 17 °C below the other material samples. In addition, the LubX® CV sample shows almost **no signs of wear** after 24 hours.

## Energie effizient nutzen Efficient energy use



Zugkraft am Antrieb während eines kompletten Kettendurchlaufes. Geschwindigkeit 0,68 m/s. Technische Universität Chemnitz, Institut für Förder-  
 technik und Kunststoffe, Gleitpartner POM

Traction on the drive during a complete chain run. Speed 0.68 m/s, Chemnitz University of Technology, Institute for Material Handling and Plastics, Sliding partner POM

Für die Messung der Zugkraft am Antrieb wurde auf einem anwendungsnahen Gleitkettenfördersystem LubX® CV mit einem Standard PE-UHMW im Vergleich getestet. Die Grafik zeigt, dass der gemessene Wert für LubX® CV (Mittelwert = 193 N) bei weniger als 30 % des Wertes für PE-UHMW (Mittelwert = 669 N) liegt.

Die elektrische Energieaufnahme des Antriebs war mit LubX® CV ebenfalls entsprechend niedriger. Die signifikant geringeren Ausschläge der Messkurve für LubX® CV sind zudem ein Beleg für eine deutlich bessere Prozessstabilität und geringere Geräuschentwicklung.

To measure the tensile force on the drive LubX® CV was tested in comparison with a standard PE-UHMW on an application oriented conveyor belt system. The graph shows that the measured value for LubX® CV (mean = 193 N) is less than 30% of the value for PE-UHMW (mean = 669 N).

The electrical energy consumption of the drive was also correspondingly lower with LubX® CV. The significantly lower amplitudes of the measured curve for LubX® CV are also evidence of significantly improved process stability and a lower noise development.

# Z-Profile Z-profiles

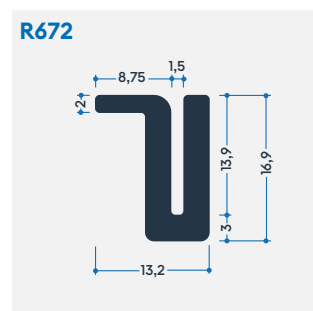
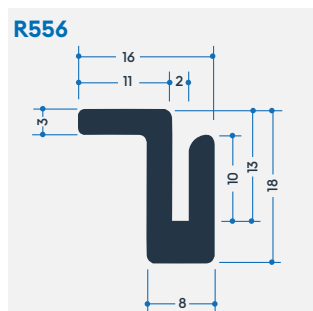
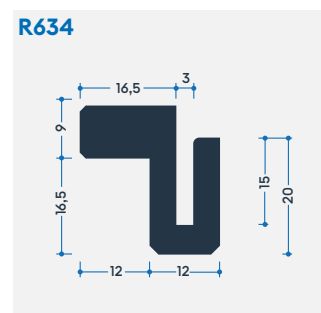
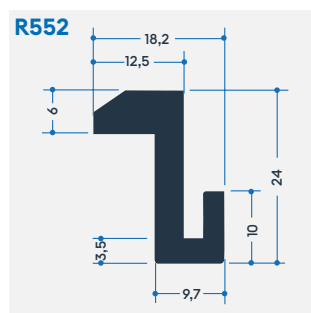
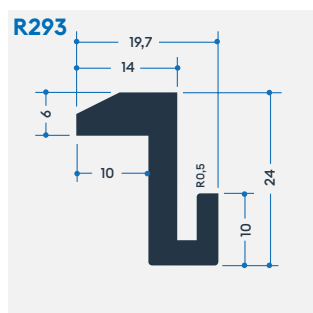
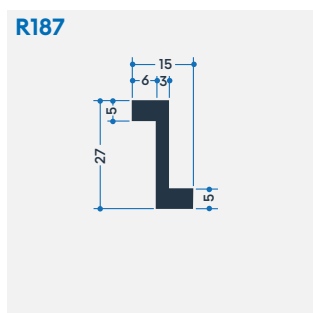
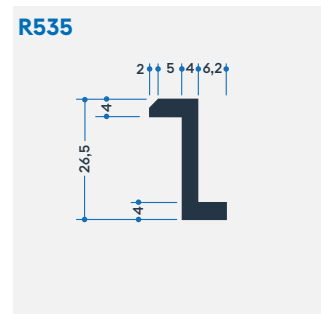
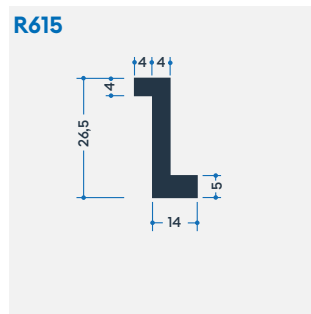
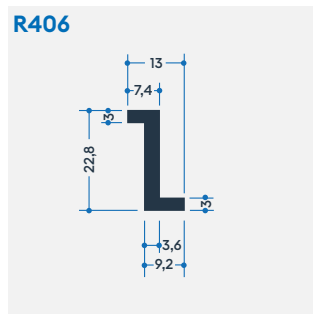
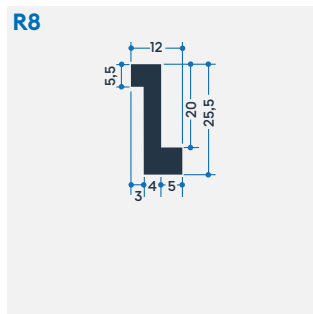
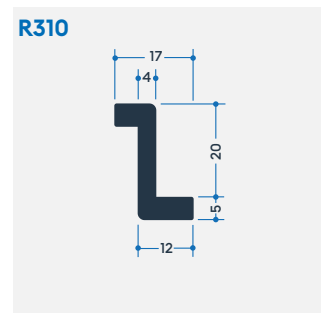
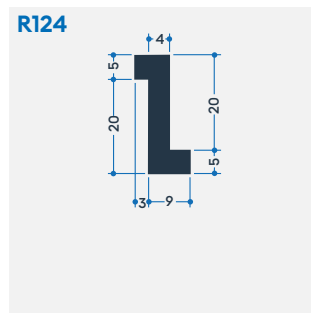
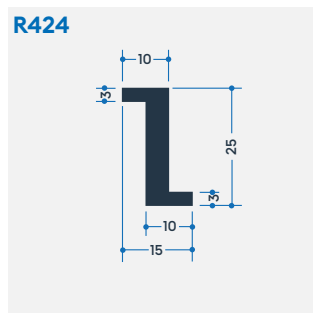
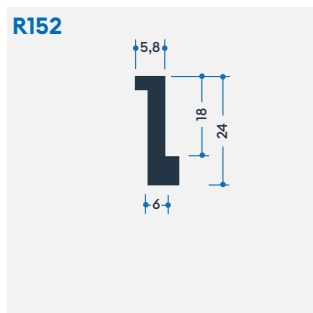
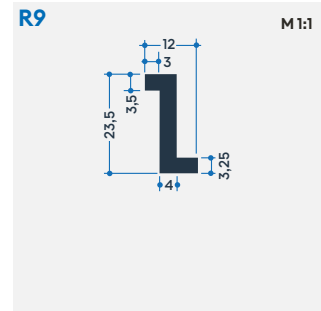
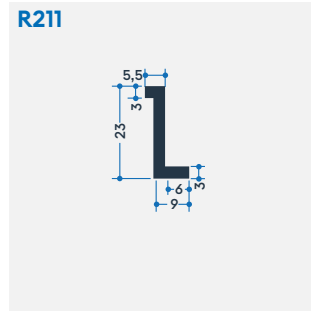
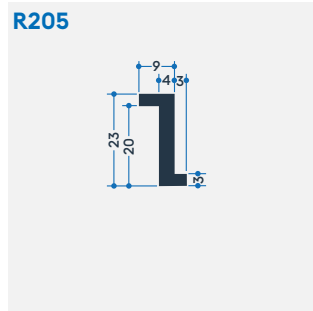
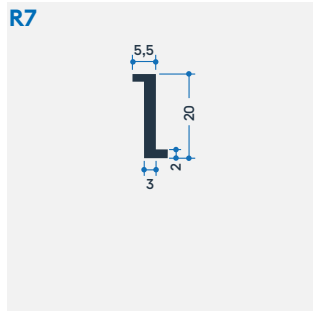
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach  
DIN 16941-3a und/oder  
gesonderter Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement





# L-Profile (Winkel) L-profiles (angles)

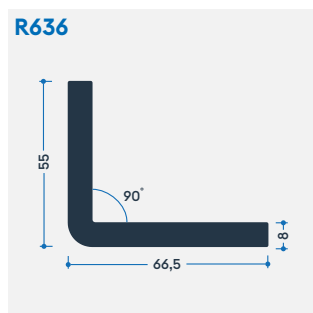
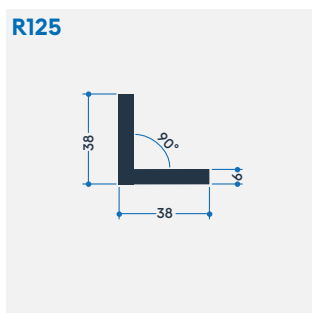
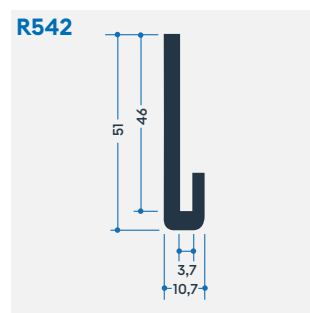
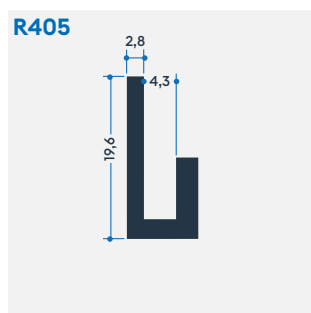
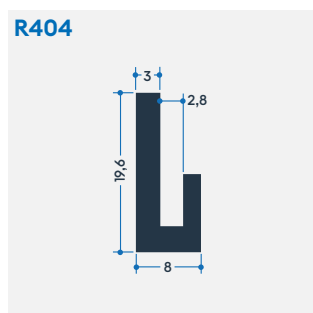
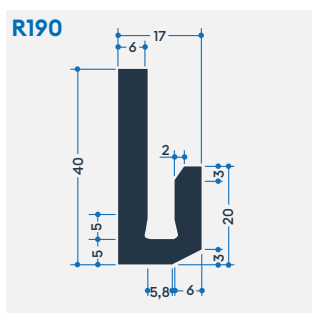
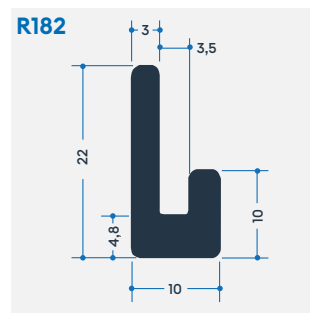
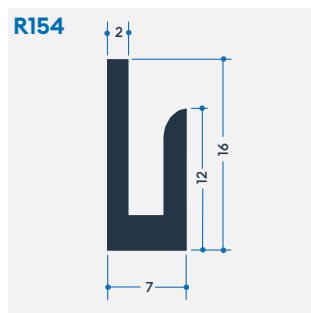
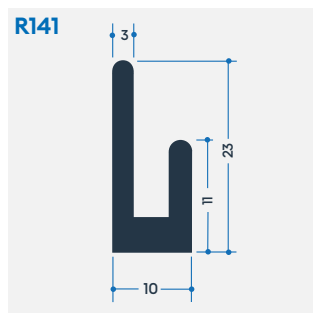
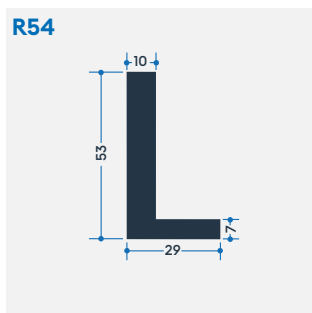
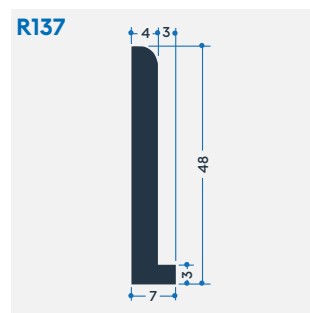
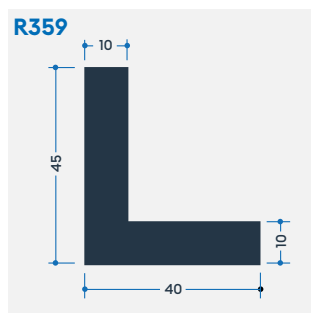
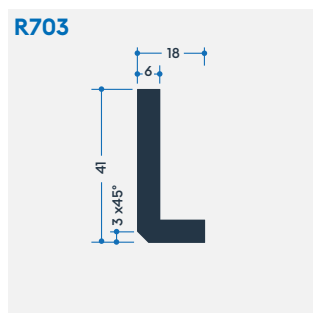
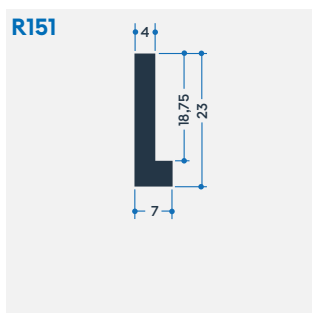
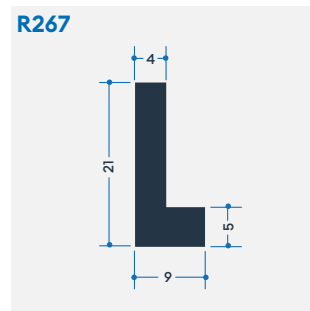
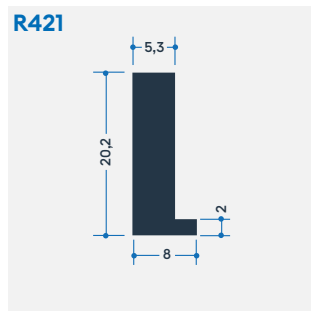
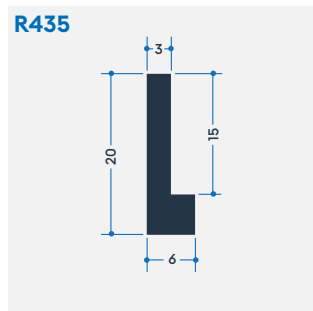
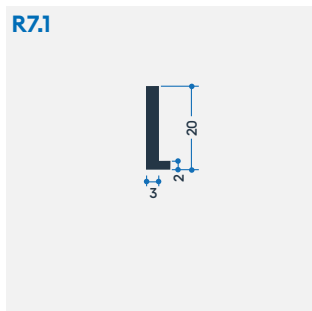
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement



Z-Profil Z-profiles
L-Profil (Winkel) L-profiles (angles)
Klemmprofil Clamp-profiles
T-Profil T-profiles
U-Profil U-profiles
C-Profil C-profiles
Halbrund-Profil Round bar cover
Rohr Tubes
Seitenführungsprofil Side guide profiles
Vierkantprofil Square-profiles
Clip-Profil Clip-profiles
Spezial-Profil Special-profiles
Bandmaterial Wear strips
Folien Film

# Klemmprofile Clamp-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

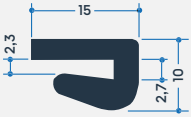
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Qualitäten: M-natur, M-schwarz, M-grün  
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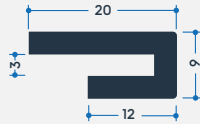
Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement

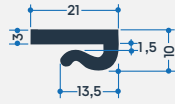
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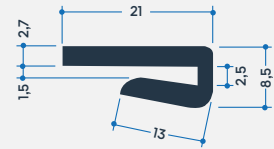
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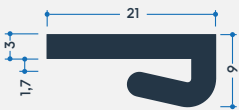
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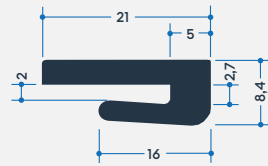
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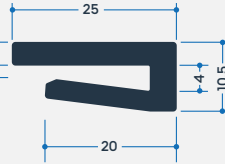
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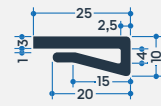
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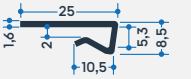
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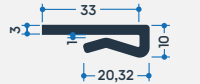
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**R237**



**R794**



**R422**



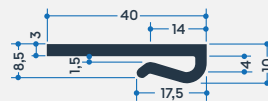
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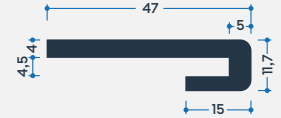
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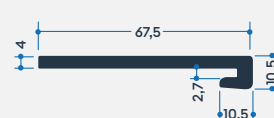
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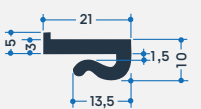
**R667**



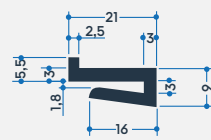
**R340**



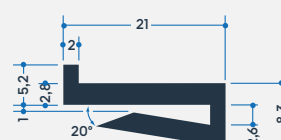
**R10**



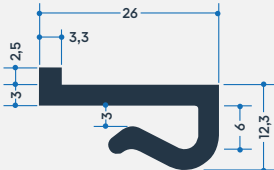
**R119**



**R407**



**R275**



# Klemmprofile Clamp-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

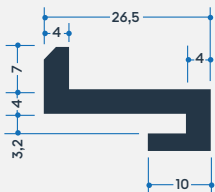
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

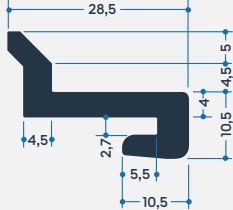
Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement

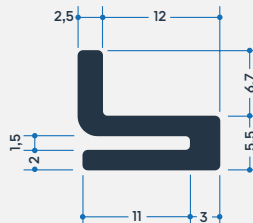
R534



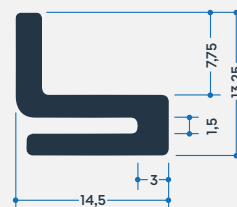
R339



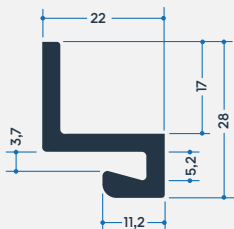
R751



R393



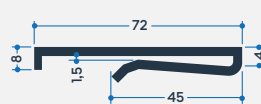
R108



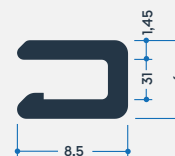
R180



R107



R743



R745



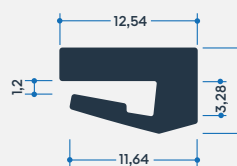
R793



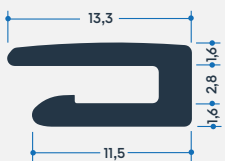
R769



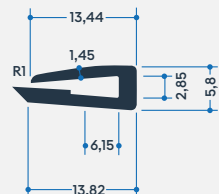
R712



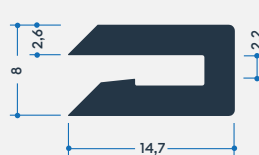
R792



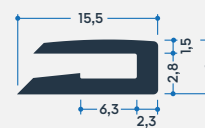
R543



R746



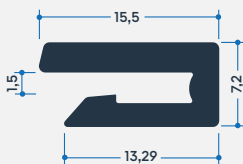
R617



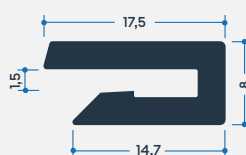
R742



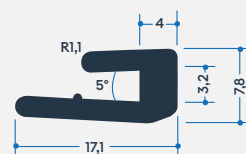
R740



R741



R387



Z-Profil  
Z-profiles

L-Profil (Winkel)  
L-profiles (angles)

Klemmprofil  
Clamp-profiles

T-Profil  
T-profiles

U-Profil  
U-profiles

C-Profil  
C-profiles

Halbrund-Profil  
Round bar cover

Rohre  
Tubes

Seitenführungsprofil  
Side guide profiles

Vierkantprofil  
Square-profiles

Clip-Profil  
Clip-profiles

Spezial-Profil  
Special-profiles

Bandmaterial  
Wear strips

Folien  
Film

# Klemmprofile Clamp-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

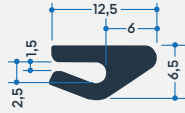
Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement

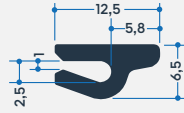
**R749**



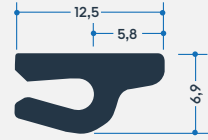
**R351**



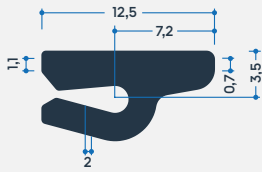
**R352**



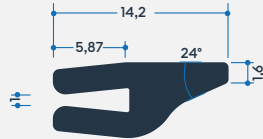
**R546**



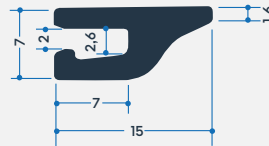
**R658**



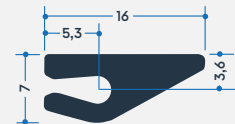
**R704**



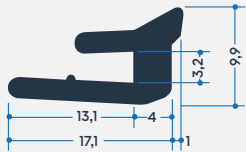
**R399**



**R519**



**R547**



# T-Profile T-profiles

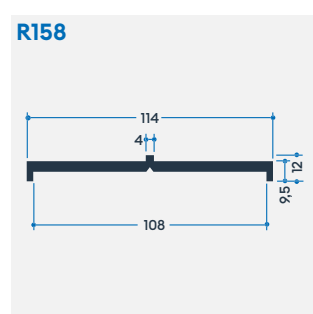
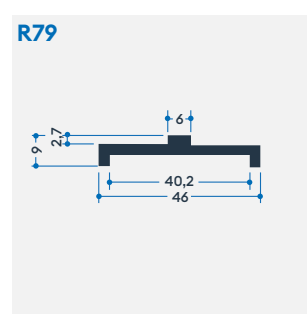
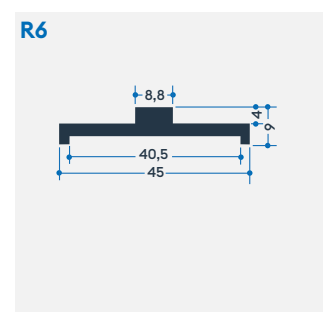
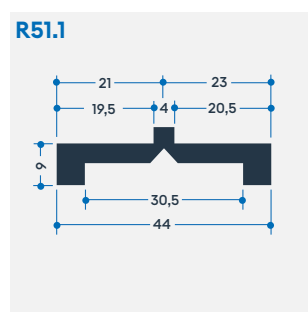
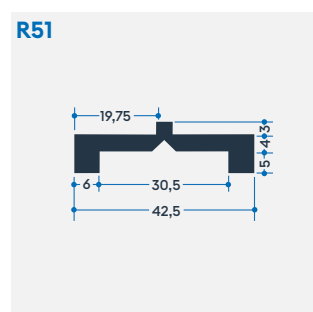
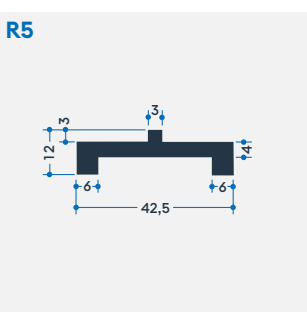
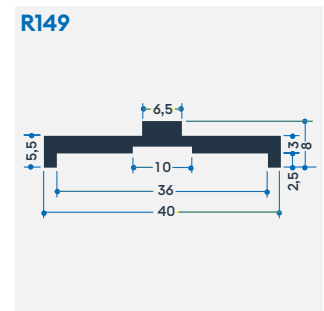
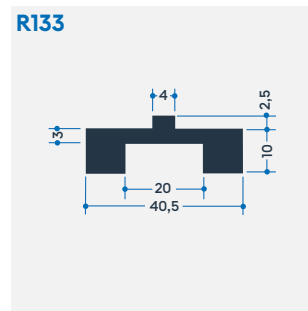
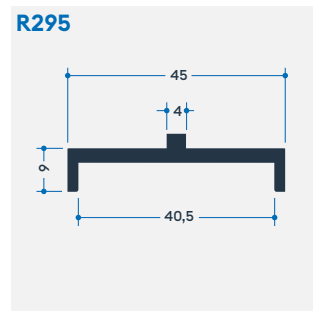
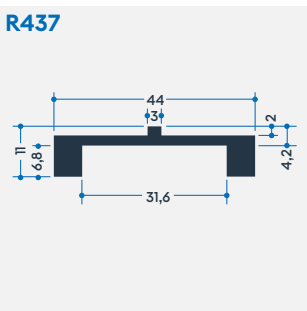
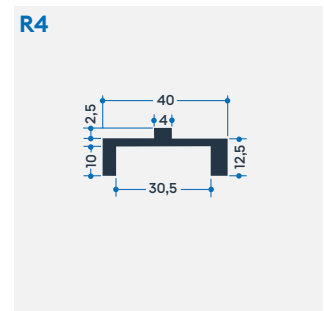
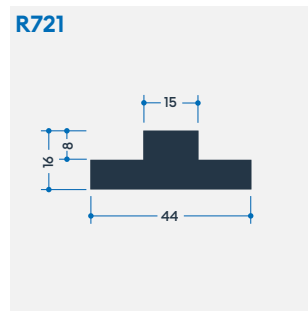
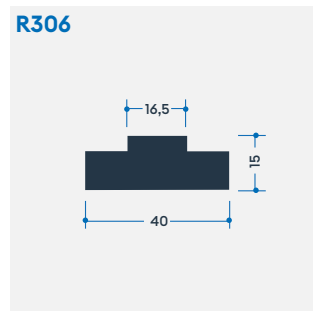
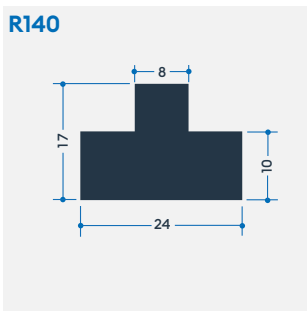
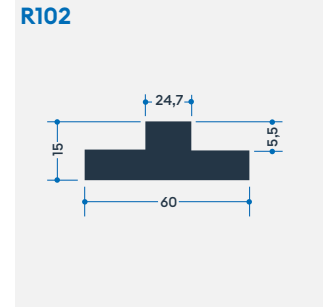
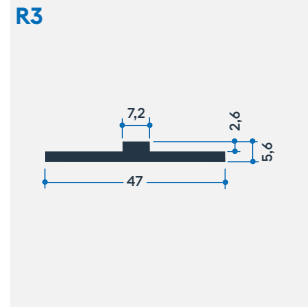
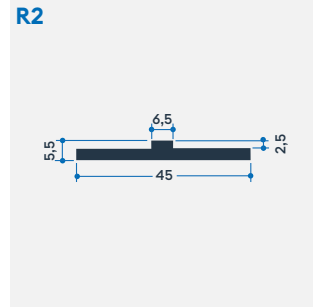
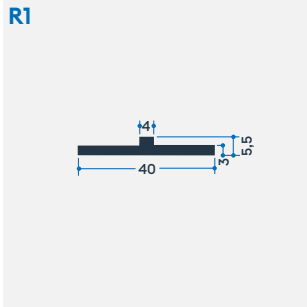
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement



Z-Profile  
Z-profiles  
L-Profile (Winkel)  
L-profiles (angles)  
Klemmprofile  
Clamp-profiles  
T-Profile  
T-profiles  
U-Profile  
U-profiles  
C-Profile  
C-profiles  
Halbrund-Profil  
Round bar cover  
Rohre  
Tubes  
Seitenführungsprofil  
Side guide profiles  
Vierkant-profil  
Square-profiles  
Clip-Profile  
Clip-profiles  
Spezial-Profile  
Special-profiles  
Bandmaterial  
Wear strips  
Folien  
Film

# U-Profile U-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

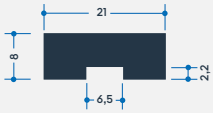
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

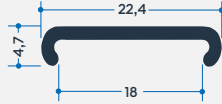
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

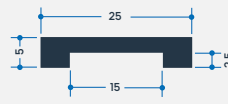
**R729**



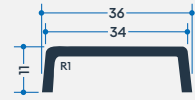
**R146**



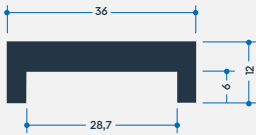
**R768**



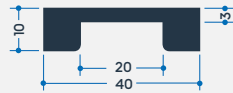
**R24**



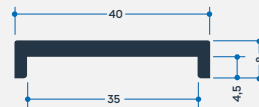
**R529**



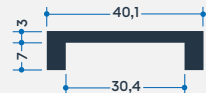
**R231**



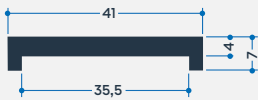
**R527**



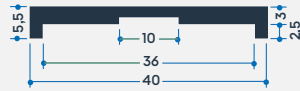
**R246**



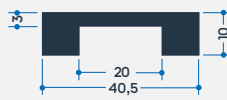
**R123**



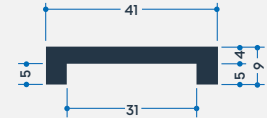
**R148**



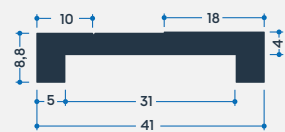
**R132**



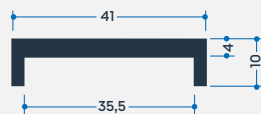
**R269**



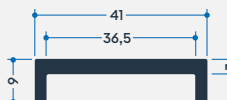
**R651**



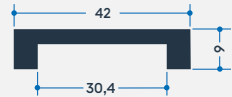
**R344**



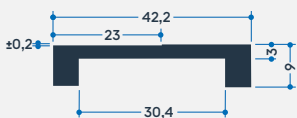
**R128**



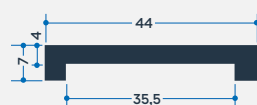
**R63**



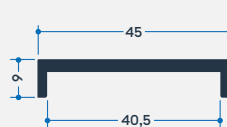
**R117**



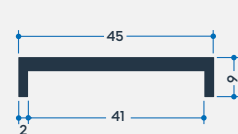
**R98**



**R296**



**R773**



# U-Profile U-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

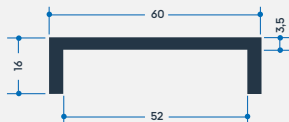
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

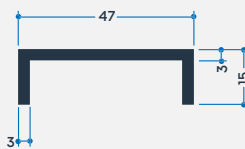
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

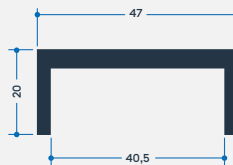
**R408**



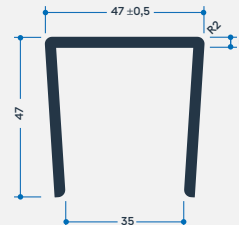
**R173**



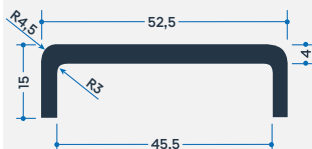
**R441**



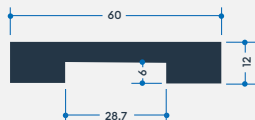
**R700**



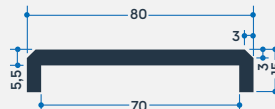
**R210**



**R530**



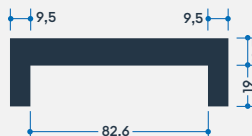
**R216**



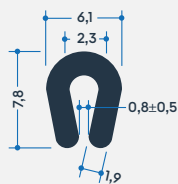
**R255**



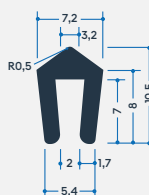
**R256**



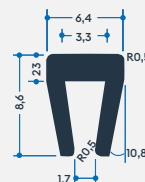
**R557**



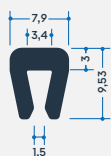
**R720**



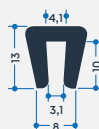
**R594**



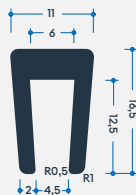
**R764**



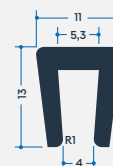
**R219**



**R655**



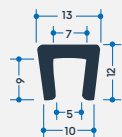
**R417**



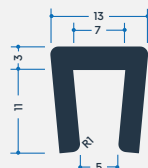
**R413**



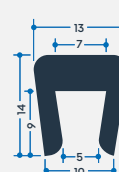
**R23**



**R802**



**R241**



Z-Profile  
Z-profiles  
L-Profile (Winkel)  
L-profiles (angles)  
Klemmprofile  
Clamp-profiles  
T-Profile  
T-profiles  
U-Profile  
U-profiles  
C-Profile  
C-profiles  
Halbrund-Profile  
Round bar cover  
Rohre  
Tubes  
Seitenführungsprofile  
Side guide profiles  
Vierkant-profile  
Square-profiles  
Clip-Profile  
Clip-profiles  
Spezial-Profile  
Special-profiles  
Bandmaterial  
Wear strips  
Folien  
Film

# U-Profile U-profiles

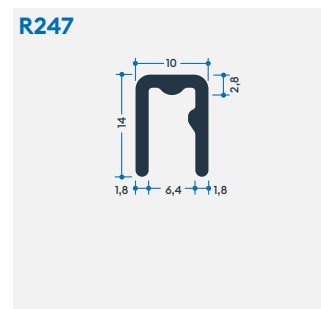
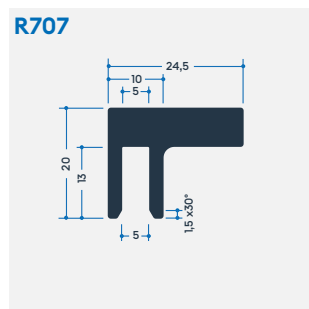
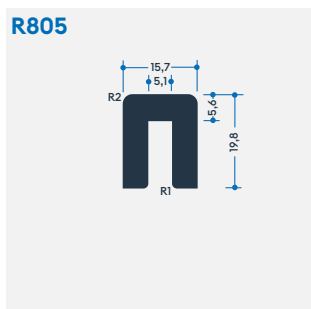
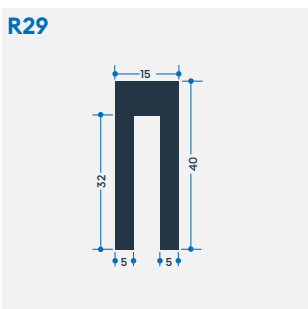
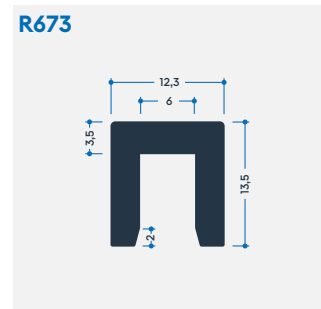
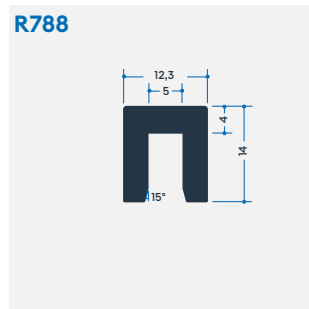
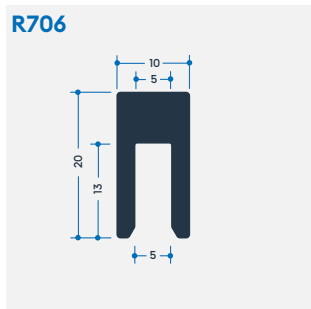
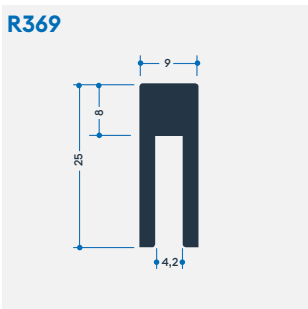
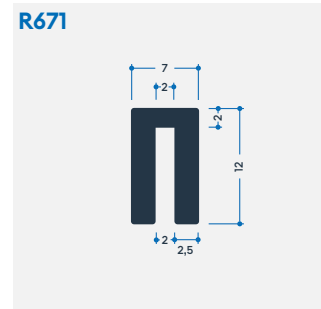
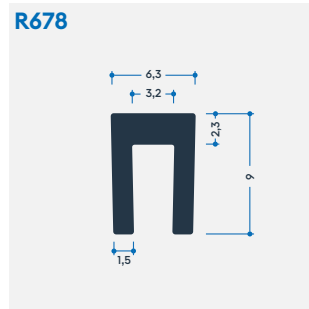
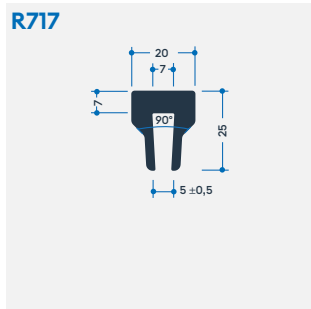
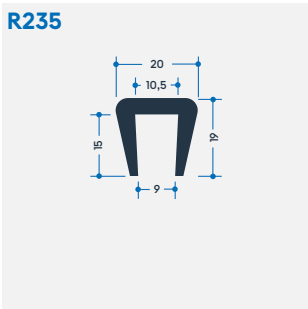
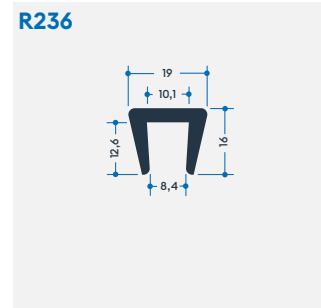
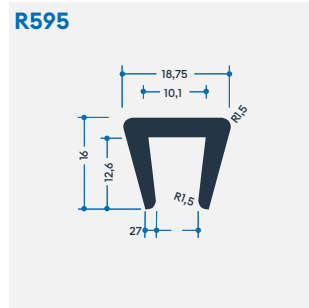
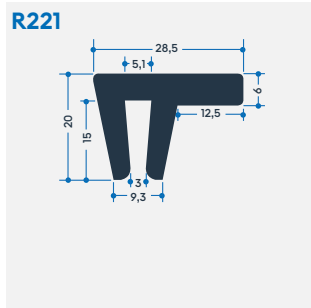
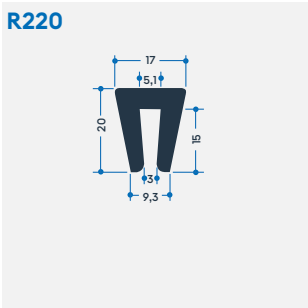
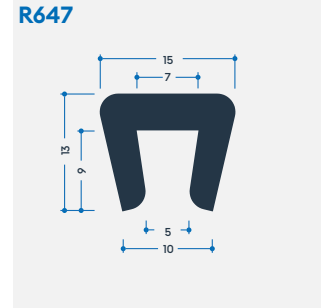
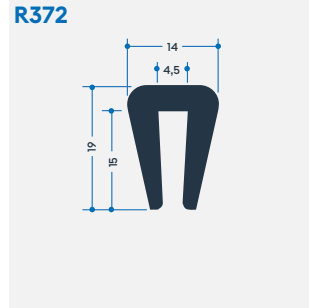
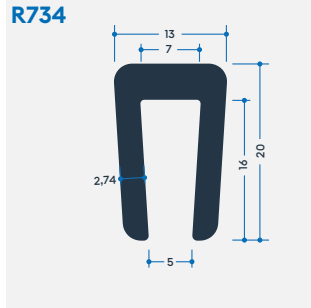
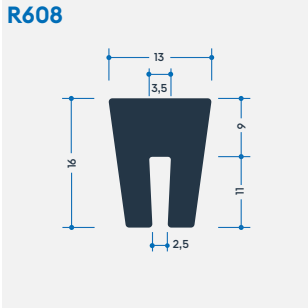
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement





# U-Profile U-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

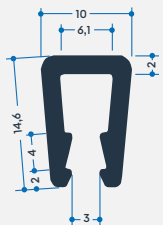
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

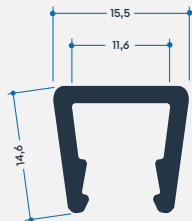
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

R167



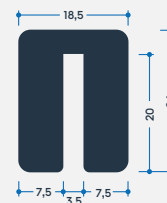
R169



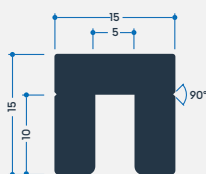
R234



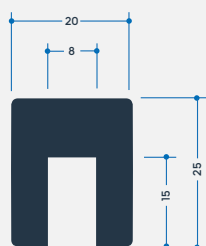
R660



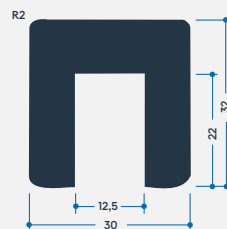
R756



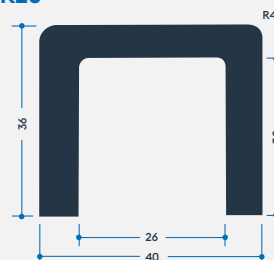
R523



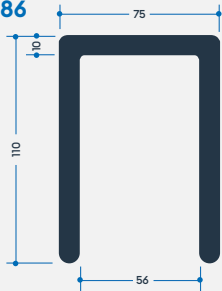
R28



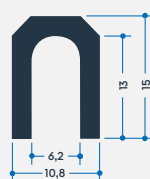
R26



R386



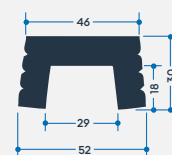
R150



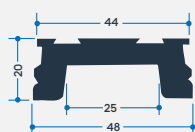
R345



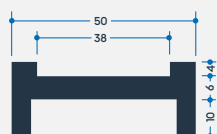
R42



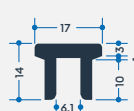
R68



R76



R213



- Z-Profil  
Z-profiles
- L-Profil (Winkel)  
L-profiles (angles)
- Klemmprofil  
Clamp-profiles
- T-Profil  
T-profiles
- U-Profil  
U-profiles
- C-Profil  
C-profiles
- Halbrund-Profil  
Round bar cover
- Rohr  
Tubes
- Seitenführungsprofil  
Side guide profiles
- Vierkantprofil  
Square-profiles
- Clip-Profil  
Clip-profiles
- Spezial-Profil  
Special-profiles
- Bandmaterial  
Wear strips
- Folien  
Film

# C-Profile C-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

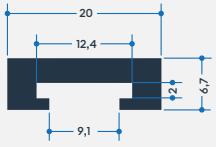
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

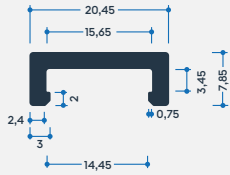
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

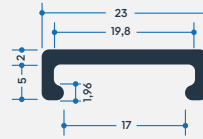
**R431**



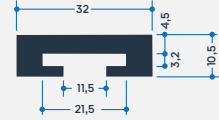
**R626**



**R744**

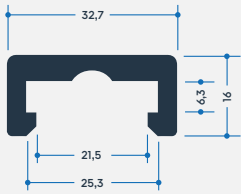


**R15**

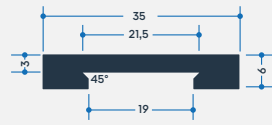


Für Flachstahl 20 x 3  
for flat steel 20 x 3

**R545**



**R783**



**R226**

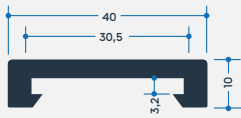


Für Flachstahl 30 x 3  
for flat steel 30 x 3

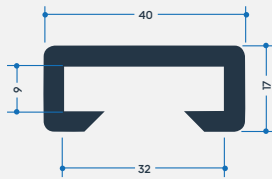
**R172**



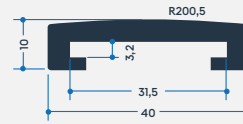
**R536**



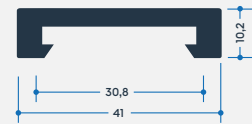
**R381**



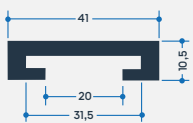
**R338**



**R533**

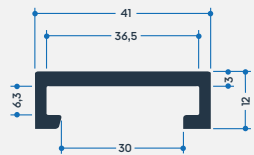


**R16**



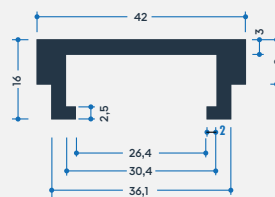
Für Flachstahl 30 x 3  
for flat steel 30 x 3

**R127**

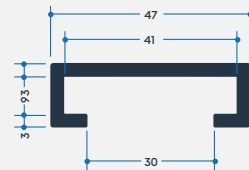


Für Flachstahl 35 x 6  
for flat steel 35 x 6

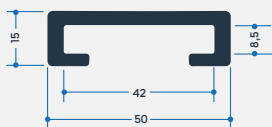
**R619**



**R341**

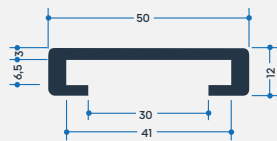


**R112**



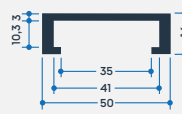
Für Flachstahl 40 x 8  
for flat steel 40 x 8

**R227**



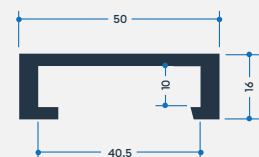
Für Flachstahl 40 x 6  
for flat steel 40 x 6

**R21**



Für Flachstahl 40 x 10  
for flat steel 40 x 10

**R331**



Für Flachstahl 40 x 10  
for flat steel 40 x 10

# C-Profile C-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

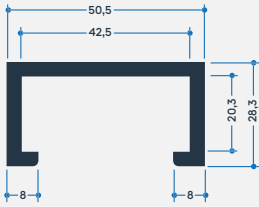
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

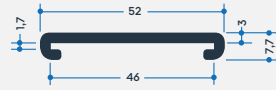
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

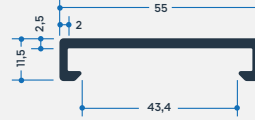
**R160**



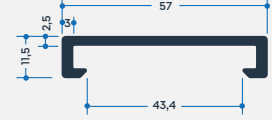
**R276**



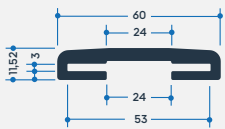
**R790**



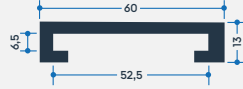
**R750**



**R759**

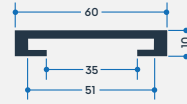


**R94**



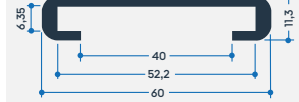
Für Flachstahl 50 x 6  
for flat steel 50 x 6

**R18**



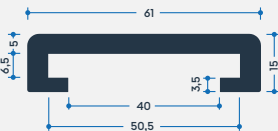
Für Flachstahl 50 x 4  
for flat steel 50 x 4

**R120**

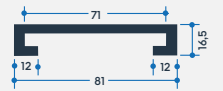


Für Flachstahl 50 x 6  
for flat steel 50 x 6

**R674**

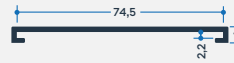


**R19**

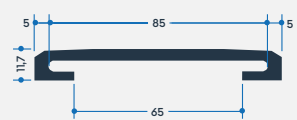


Für Flachstahl 70 x 6  
for flat steel 70 x 6

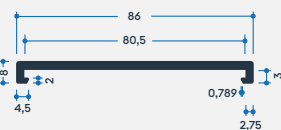
**R244**



**R373**



**R668**

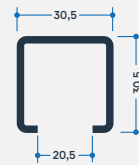


**R265**

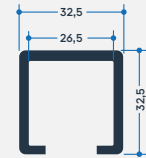


Für Flachstahl 80 x 5  
for flat steel 80 x 5

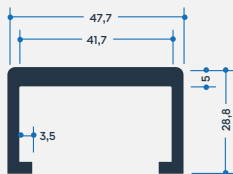
**R716**



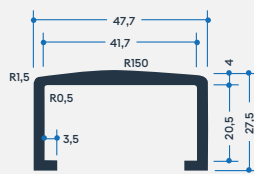
**R289**



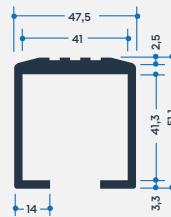
**R727**



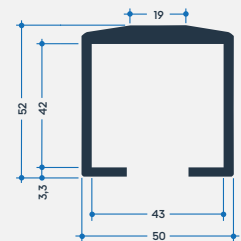
**R585**



**R603**



**R260**



Z-Profile  
Z-profiles

L-Profile (Winkel)  
L-profiles (angles)

Klemmprofile  
Clamp-profiles

T-Profile  
T-profiles

U-Profile  
U-profiles

C-Profile  
C-profiles

Halbrund-Profile  
Round bar cover

Rohre  
Tubes

Seitenführungsprofile  
Side guide profiles

Vierkant-profile  
Square-profiles

Clip-Profile  
Clip-profiles

Spezial-Profile  
Special-profiles

Bandmaterial  
Wear strips

Folien  
Film

# C-Profile C-profiles

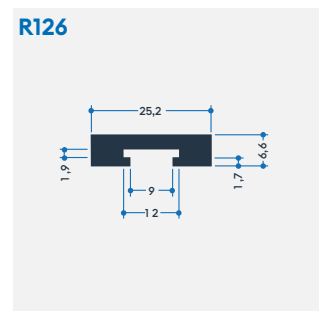
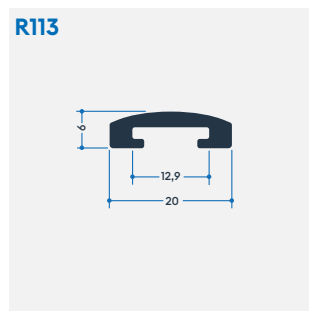
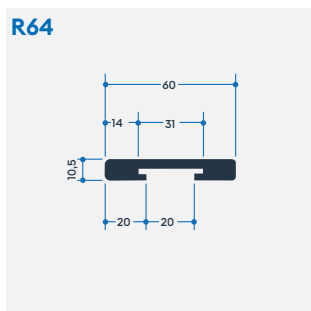
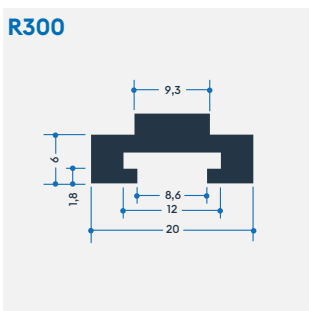
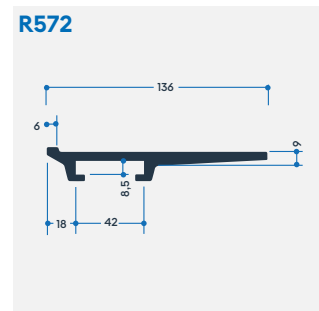
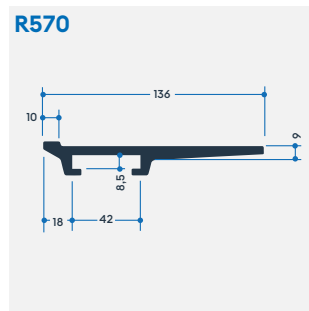
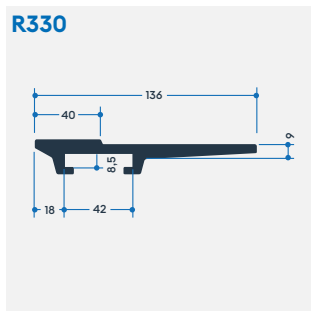
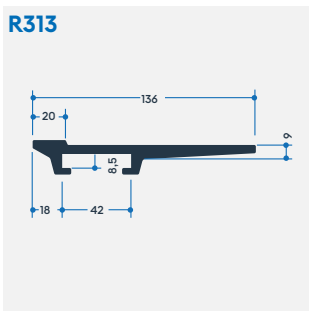
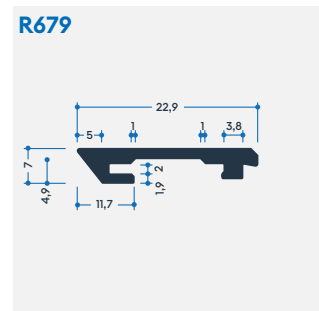
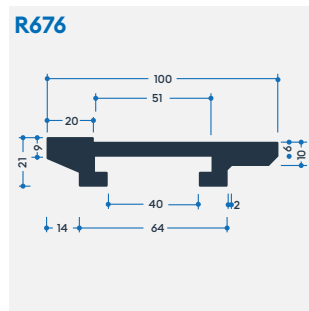
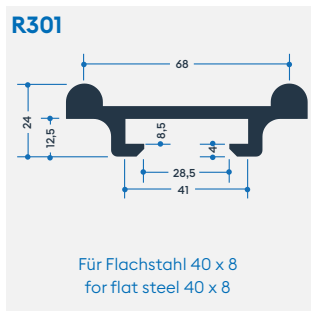
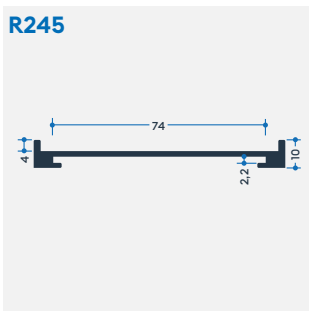
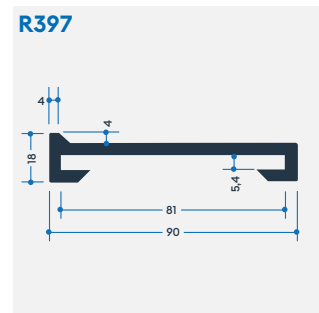
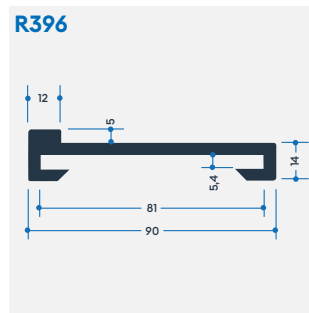
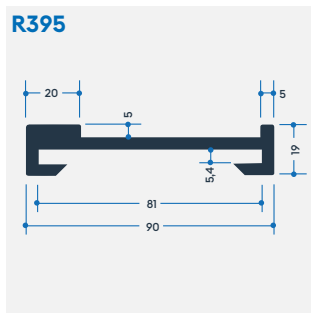
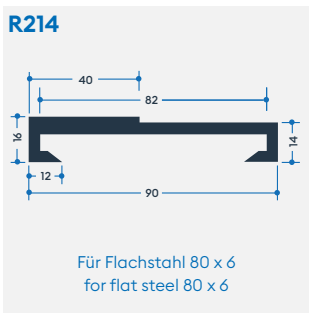
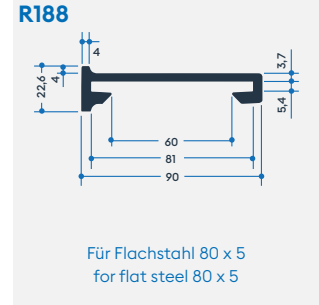
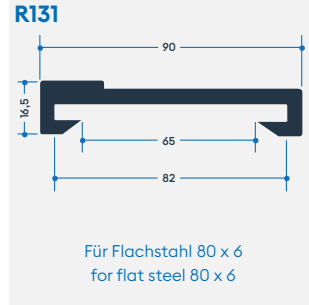
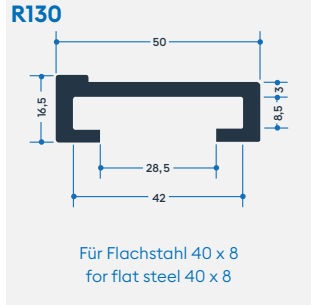
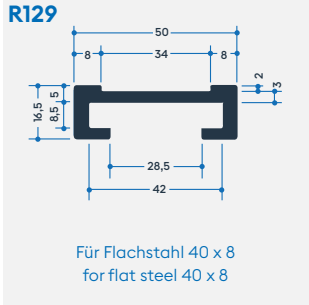
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement



# C-Profile C-profiles

Rollenlänge ca. 60 m  
Length per roll ca. 60 m

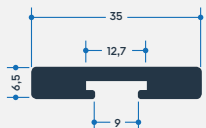
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

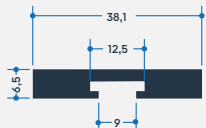
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

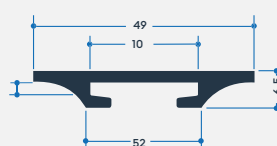
**R363**



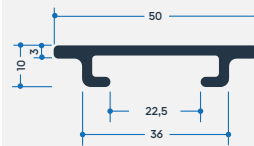
**R428**



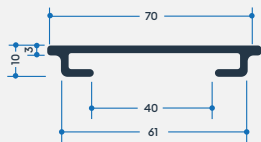
**R115**



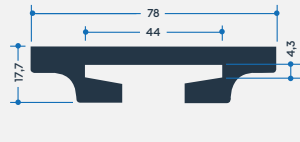
**R785**



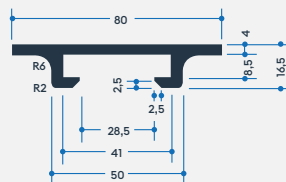
**R786**



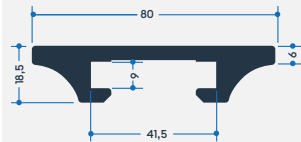
**R443**



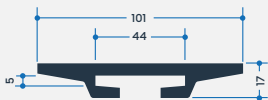
**R579**



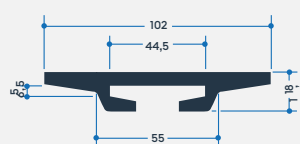
**R353**



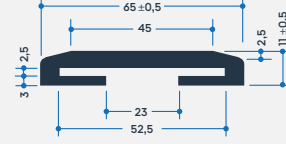
**R240**



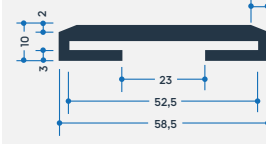
**R111**



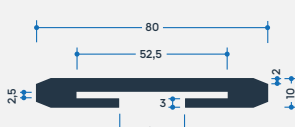
**R554**



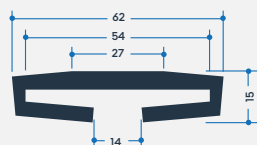
**R571**



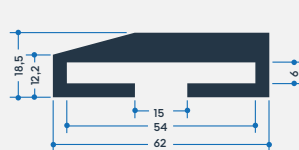
**R620**



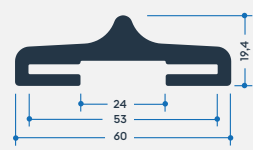
**R412**



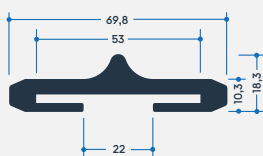
**R430**



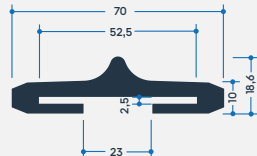
**R758**



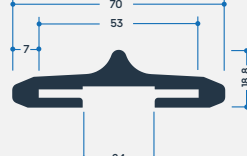
**R757**



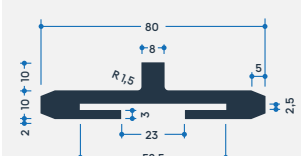
**R691**



**R772**



**R621**



Z-Profile  
Z-profiles

L-Profile (Winkel)  
L-profiles (angles)

Klemmprofile  
Clamp-profiles

T-Profile  
T-profiles

U-Profile  
U-profiles

C-Profile  
C-profiles

Halbrund-Profile  
Round bar cover

Rohre  
Tubes

Seitenführungsprofile  
Side guide profiles

Vierkant-profile  
Square-profiles

Clip-Profile  
Clip-profiles

Spezial-Profile  
Special-profiles

Bandmaterial  
Wear strips

Folien  
Film

# C-Profile C-profiles

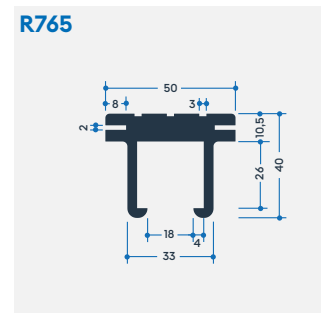
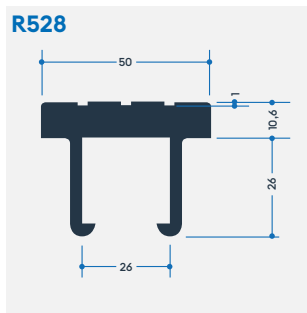
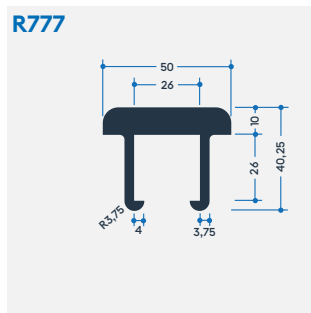
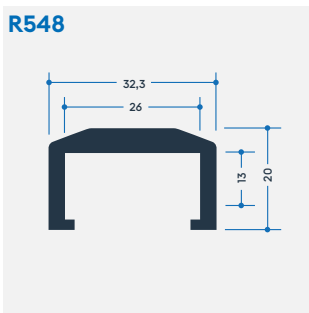
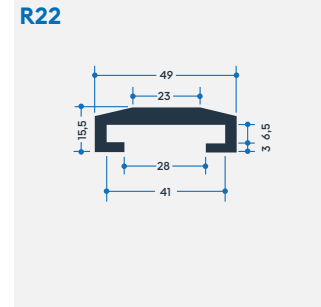
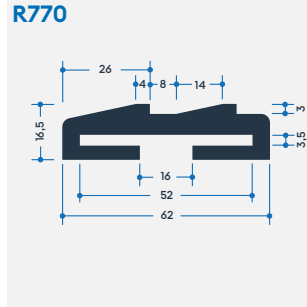
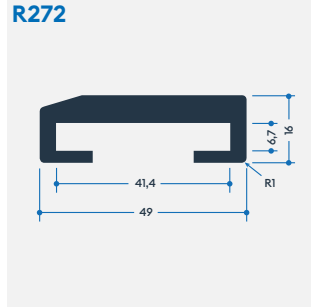
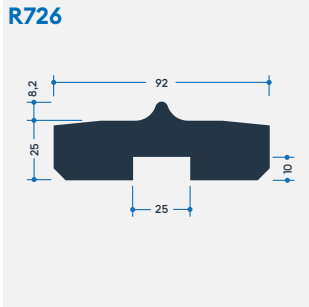
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement



# Halbrund-Profil Round bar cover

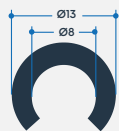
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

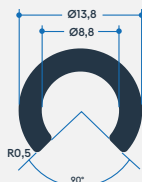
Tolerances according to  
DIN 16941-3a and/or  
separate agreement

**R425**



Für Rundstab ø 10 mm  
for roundbar ø 10 mm

**R735**

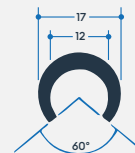


**R95**



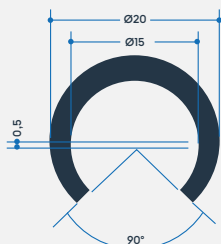
Für Rundstab ø 10 mm  
for roundbar ø 10 mm

**R11**

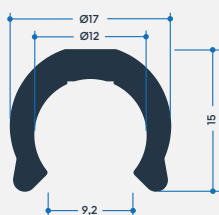


Für Rundstab ø 12 mm  
for roundbar ø 12 mm

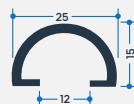
**R592**



**R774**

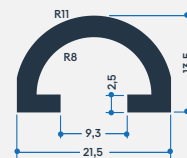


**R97**



Rollenlänge ca. 60 m  
Length per roll ca. 60 m

**R283**



Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Z-Profil  
Z-profiles

L-Profil (Winkel)  
L-profiles (angles)

Klemmprofil  
Clamp-profiles

T-Profil  
T-profiles

U-Profil  
U-profiles

C-Profil  
C-profiles

Halbrund-Profil  
Round bar cover

Rohr  
Tubes

Seitenführungsprofil  
Side guide profiles

Vierkantprofil  
Square-profiles

Clip-Profil  
Clip-profiles

Spezial-Profil  
Special-profiles

Bandmaterial  
Wear strips

Folien  
Film

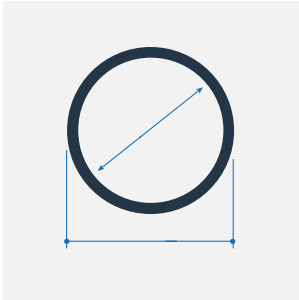
# Rohre Tubes

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement



Profile Profiles	Außendurchmesser Outside diameter	Innendurchmesser Inside diameter
R390	28	22,8
R346	43	37
R669	50	18,5
R511	50,6	30,8
R307	51	44
R308	63	55
R314	80	67
R680	83	30
R347	90	80
R358	97,2	78,9
R383	100	90
R366	128	104
R348	136	120
R661	148	126
R367	160	136
R368	200	176



# Seitenführungsprofile

## Side guide profiles

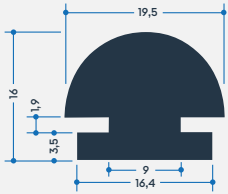
Standardlänge: 6000 mm oder Rollenware  
 Qualitäten: M-natur, M-schwarz, M-grün  
 (PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
 Qualities: M-natural, M-black, M-green  
 (PE-UHMW/PE 1000)

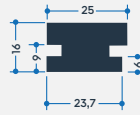
Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement

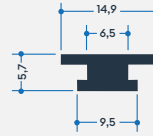
R13



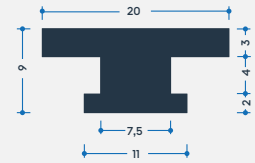
R14



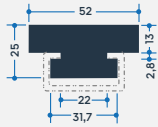
R33



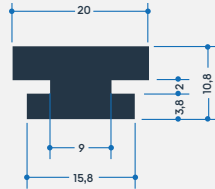
R665



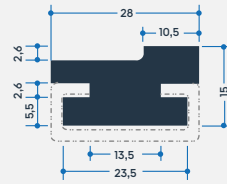
R35



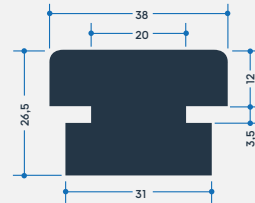
R558



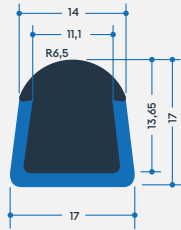
R78



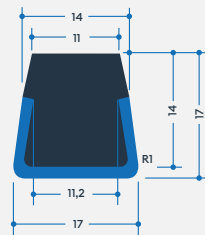
R207



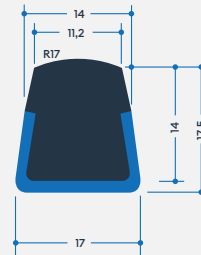
R401



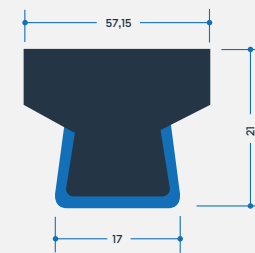
R402



R403



R485



Z-Profil	Z-profiles
L-Profil (Winkel)	L-profiles (angles)
Klemmprofil	Clamp-profiles
T-Profil	T-profiles
U-Profil	U-profiles
C-Profil	C-profiles
Halbrund-Profil	Round bar cover
Rohr	Tubes
Seitenführungsprofil	Side guide profiles
Vierkant-Profil	Square-profiles
Clip-Profil	Clip-profiles
Spezial-Profil	Special-profiles
Bandmaterial	Wear strips
Folien	Film

# Vierkant-Profile Square-profiles

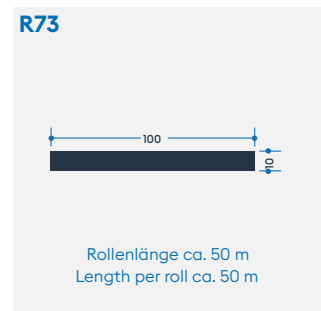
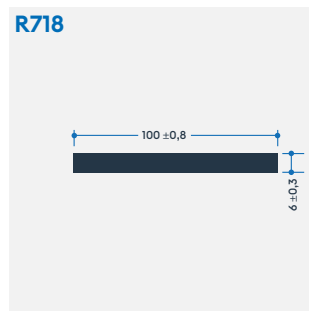
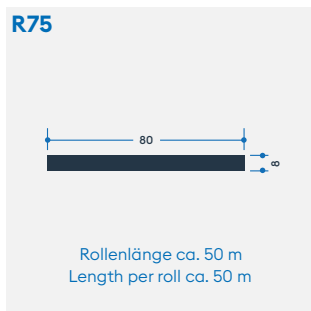
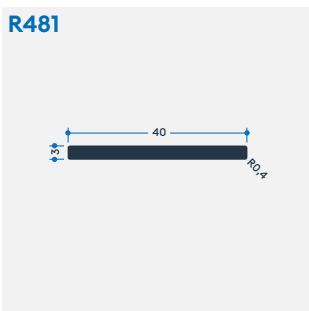
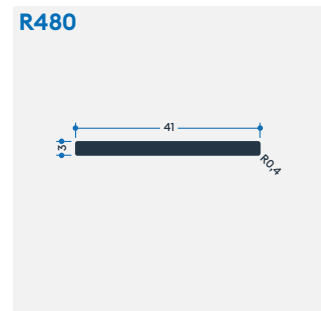
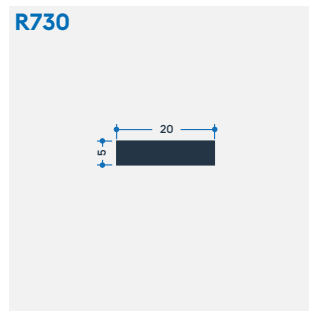
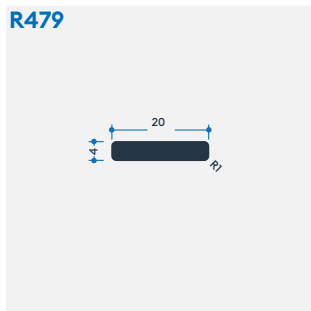
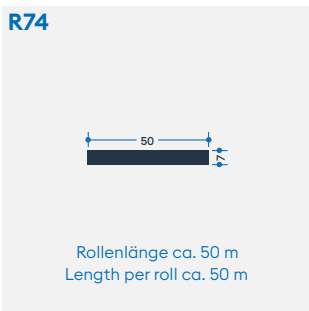
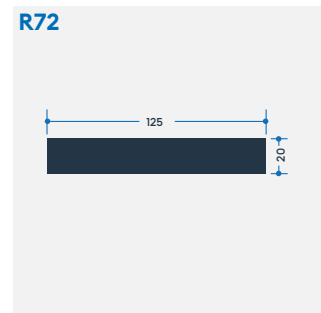
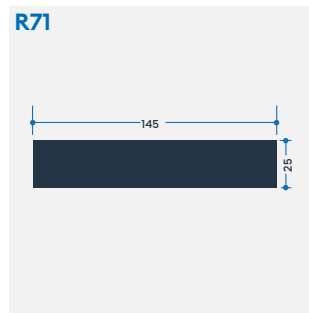
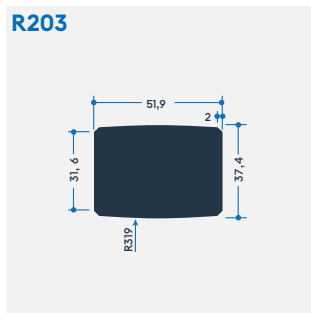
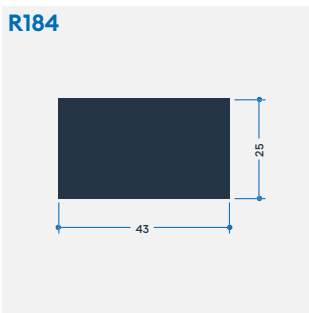
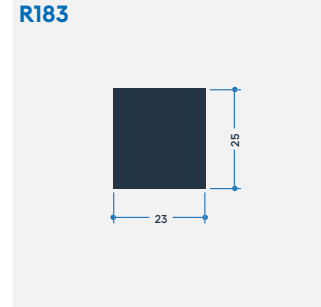
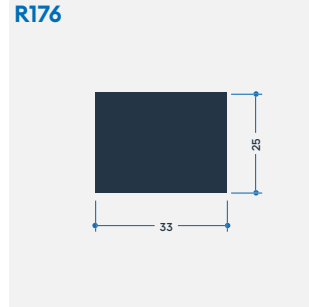
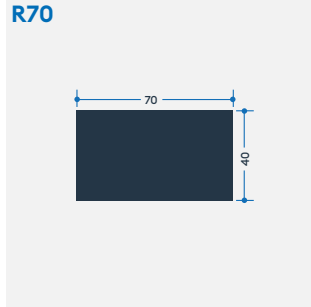
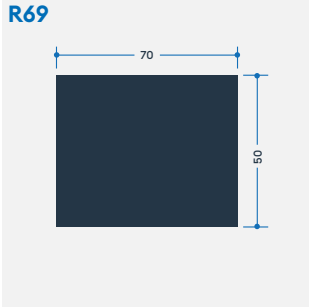
Rollenlänge ca. 60 m  
Length per roll ca. 60 m

Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement



# Clip-Profile Clip-profiles

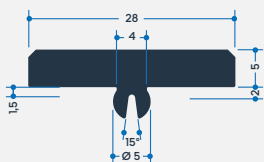
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

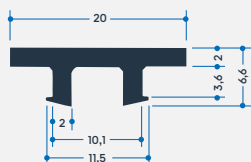
Toleranzen nach DIN 16941-3a und/oder gesonderter Vereinbarung

Tolerances according to DIN 16941-3a and/or separate agreement

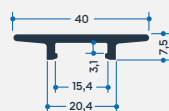
R782



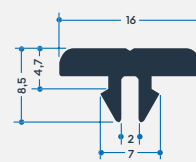
R77



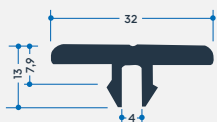
R249



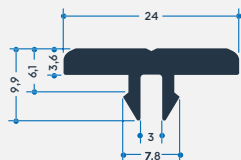
R156



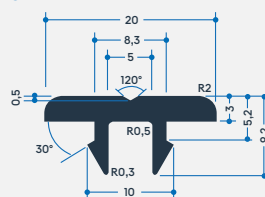
R90



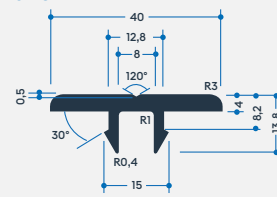
R157



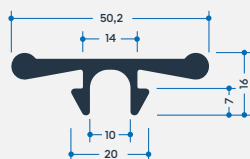
R597



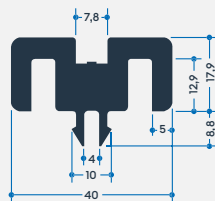
R598



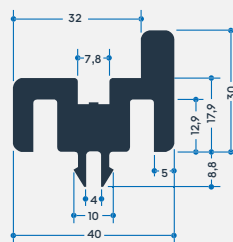
R715



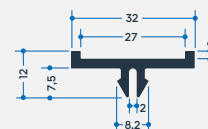
R196



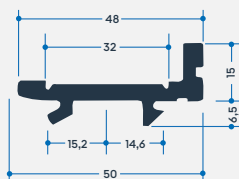
R197



R250



R87



Z-Profile  
Z-profiles  
L-Profile (Winkel)  
L-profiles (angles)  
Klemmprofile  
Clamp-profiles  
T-Profile  
T-profiles  
U-Profile  
U-profiles  
C-Profile  
C-profiles  
Halbrund-Profile  
Round bar cover  
Rohre  
Tubes  
Seitenführungsprofile  
Side guide profiles  
Vierkant-profile  
Square-profiles  
Clip-Profile  
Clip-profiles  
Spezial-Profile  
Special-profiles  
Bandmaterial  
Wear strips  
Folien  
Film

# Spezial-Profil Special-profiles

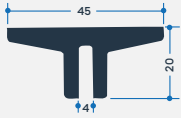
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

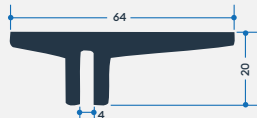
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

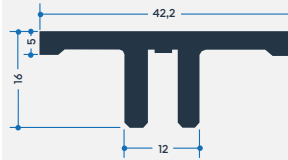
**R88**



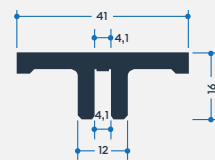
**R89**



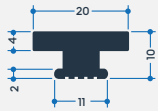
**R139**



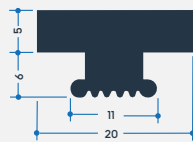
**R212**



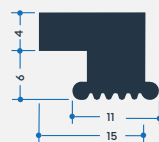
**R116**



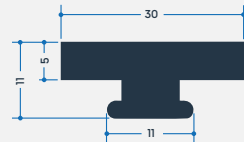
**R134**



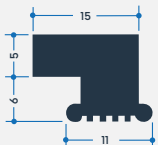
**R135**



**R136**



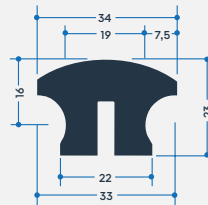
**R143**



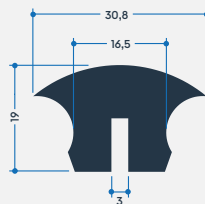
**R12**



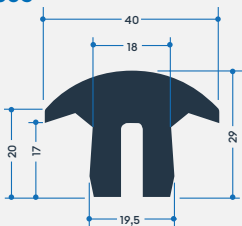
**R48**



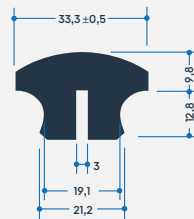
**R326**



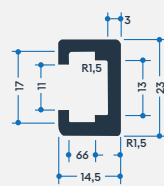
**R365**



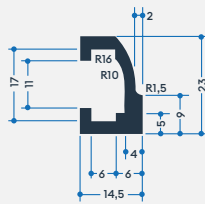
**R515**



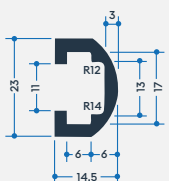
**R65**



**R66**



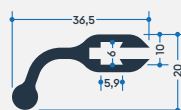
**R67**



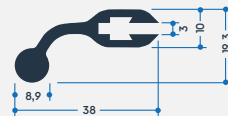
**R242**



**R251**



**R294**



# Spezial-Profil Special-profiles

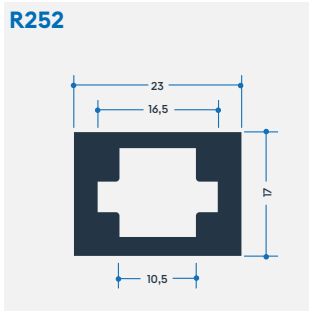
Standardlänge: 6000 mm oder Rollenware  
Qualitäten: M-natur, M-schwarz, M-grün  
(PE-UHMW/PE 1000)

Standard length: 6000 mm or in coils  
Qualities: M-natural, M-black, M-green  
(PE-UHMW/PE 1000)

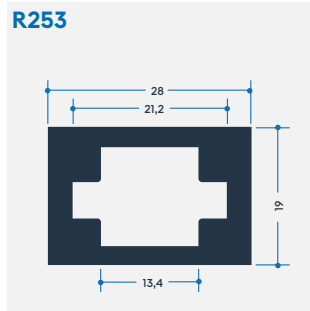
Toleranzen nach DIN 16941-3a  
und/oder gesonderter  
Vereinbarung

Tolerances according to  
DIN 16941-3a and/or  
separate agreement

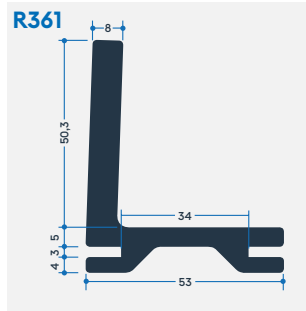
**R252**



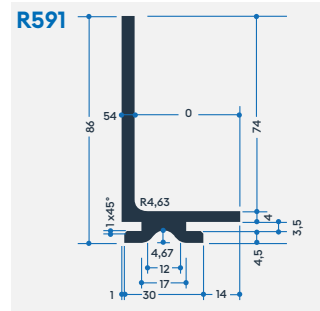
**R253**



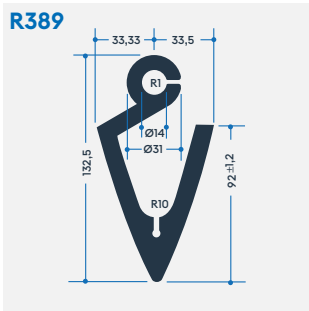
**R361**



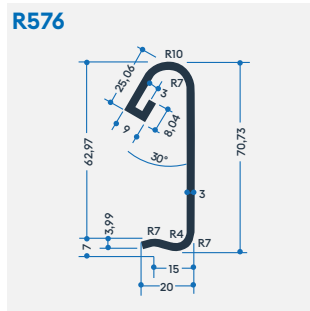
**R591**



**R389**



**R576**



Z-Profil Z-profiles
L-Profil (Winkel) L-profiles (angles)
Klemmprofil Clamp-profiles
T-Profil T-profiles
U-Profil U-profiles
C-Profil C-profiles
Halbrund-Profil Round bar cover
Rohr Tubes
Seitenführungsprofil Side guide profiles
Vierkant-Profil Square-profiles
Clip-Profil Clip-profiles
<b>Spezial-Profil Special-profiles</b>
Bandmaterial Wear strips
Folien Film

# Bandmaterial, geschält

## Wear strips, skived

- für Ketten nach DIN 8187
- for chains to DIN 8187

Bandbreite Width	Bandlänge bei Banddicke Length at thickness							
	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm
15							-	-
18								
20								
25								
30								
35								
40	270 m	135 m	85 m	65 m	50 m	40 m	35 m	30 m
45								
50								
55								
60								
70								
80								
90	160 m	80 m	50 m	38 m	32 m	25 m	22 m	-
100								
110								



Bemerkungen: Sonderabmessungen auf Anfrage.  
 Max. Abmessungen: 300 mm Breite, 0,25 – 3 mm Dicke.  
 Toleranzen: Dicke +0,1/-0,3 mm, Breite  $\pm 0,3$  mm

Notes: Special dimensions on request.  
 Max. dimension: 300 mm width, 0.25 – 3 mm thickness.  
 Tolerances: Thickness +0.1/-0.3 mm, Width  $\pm 0.3$  mm

# Folien, geschält

## Film, skived

Breite <sup>1)</sup> Width <sup>1)</sup>	Folienlänge Length	Foliendicke Thickness
mm	m	mm
100 ... 300 mm	136	0,25
	68	0.50
	45	0.75
	34	1.00
	27	1.25
	22	1.50
	19	1.75
	17	2.00
	15	2.25
	13	2.50
	12	2.75
	11	3.00

1) Folien sind in jeder gewünschten Breite von 100 – 300 mm lieferbar

1) Films are deliverable in a width of 100 – 300 mm



Z-Profil  
Z-profiles

L-Profil (Winkel)  
L-profiles (angles)

Klemmprofil  
Clamp-profiles

T-Profil  
T-profiles

U-Profil  
U-profiles

C-Profil  
C-profiles

Halbrund-Profil  
Round bar cover

Rohre  
Tubes

Seitenführungsprofil  
Side guide profiles

Vierkant-profil  
Square-profiles

Clip-Profil  
Clip-profiles

Spezial-Profil  
Special-profiles

Bandmaterial  
Wear strips

Folien  
Film

# Technische Daten

## Technical data

### Produktmerkmale

- Hohe Abrieb- und Verschleißfestigkeit
- Geringer Gleitreibungskoeffizient
- Hohe Schlagzähigkeit

### Typische Anwendungsbereiche

- Getränke- und Lebensmittelindustrie
- Maschinenbau
- Verpackungsindustrie

### Product characteristics

- High abrasion and wear resistance
- Low coefficient of friction
- High impact strength

### Product applications

- Beverage and food industry
- Mechanical engineering
- Packaging industry

Eigenschaften Properties	Testmethode Test method	Einheit Unit	Werkstoff Material
<b>Polystone® M (PE-UHMW/PE 1000)</b>			
<b>Allgem. Eigenschaften   General properties</b>			
Dichte Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	> 0,93
Feuchtigkeitsaufnahme Water absorption	DIN EN ISO 62	%	< 0,01
Brennverhalten (Dicke 3 mm / 6 mm) Flammability (Thickness 3 mm / 6 mm)	UL 94	-	HB
Molekulargewicht Flammability (Thickness 3 mm / 6 mm)	-	10 <sup>6</sup> g/mol	~ 9
<b>Mechanische Eigenschaften   Mechanical properties</b>			
Reißdehnung Elongation at break	DIN EN ISO 527	%	> 50
E-Modul Tensile modulus of elasticity	DIN EN ISO 527	MPa	> 650
Kerbschlagzähigkeit Notched impact strength (charpy)	DIN EN ISO 11542	kJ/m <sup>2</sup>	> 100
Shore Härte Shore hardness	DIN EN ISO 868	Skala D/ scale D	> 63
<b>Thermische Eigenschaften   Thermal properties</b>			
Schmelztemperatur Melting temperature	ISO 11357-3	°C	130 ... 135
Wärmeleitfähigkeit Thermal conductivity	DIN 52612-1	W/(m*K)	0,40
Wärmekapazität Thermal capacity	DIN 52612	kJ (kg*K)	1,90
Linearer Ausdehnungskoeffizient Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> /K	150 ... 230
Einsatztemperatur langfristig Service temperature, long term	Richtwerte Average	°C	-250...80
Einsatztemperatur kurzfristig (max.) Service temperature, short term (max.)	Richtwerte Average	°C	130
Vicat Erweichtemperatur Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	80
<b>Elektrische Eigenschaften   Electrical properties</b>			
Dielektrizitätszahl Dielectric constant	IEC 60250	-	2,3
Dielektrischer Verlustfaktor (10 <sup>6</sup> Hz) Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250	-	0,0001
Durchgangswiderstand Volume resistivity	DIN EN 62631-3-1	Ω*cm	> 10 <sup>14</sup>
Oberflächenwiderstand Surface resistivity	DIN EN 62631-3-2	Ω	> 10 <sup>14</sup>
Vergleichszahl der Kriechwegbildung Comparative tracking index	IEC 60112	-	600
Durchschlagfestigkeit Dielectric strength	IEC 60243	kV/mm	> 40

Bei den angegebenen Werten handelt es sich um Mittelwerte, die durch ständige statistische Prüfungen abgesichert sind. Sie entsprechen den Vorgaben der DIN EN 15860. Diese Daten sind reine Beschaffenheitsangaben und führen nur bei ausdrücklicher Vereinbarung zukaufvertraglicher Zusicherung.

The data stated above are average values ascertained by statistical test on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



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