

An aerial, top-down perspective of a city street where the buildings and infrastructure are replaced by various sizes of cardboard boxes and packaging materials. Large brown boxes line the sidewalks, while the road is filled with smaller boxes, tubes, and containers. Small human figures, cars, and a motorcycle are scattered throughout the scene, providing a sense of scale. The lighting is bright, casting soft shadows.

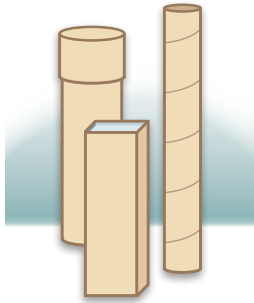
**TFT**  
VERPACKUNGEN

┌ TFT TUBES AND EDGE PROTECTORS  
Impressive Logistics ┐  
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# Content

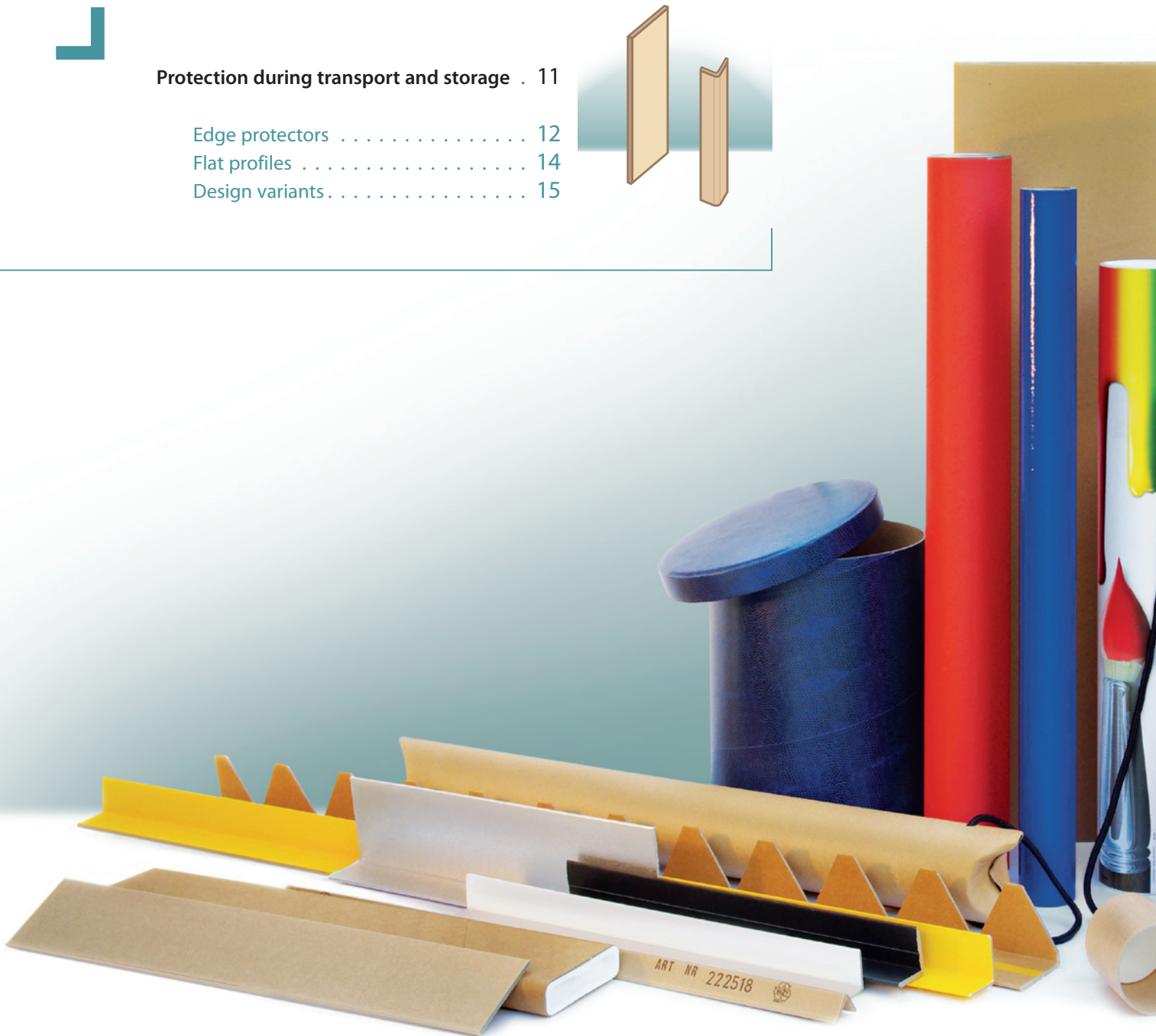
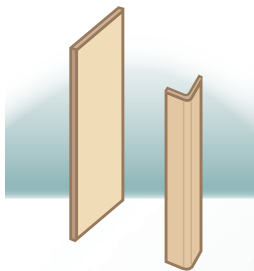
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# Tubes – good all round



Hard paper tubes to be used for the most diverse purposes have been produced at Rositz for 25 years now.

It all began with spiral-wound core tubes for the wire and fine-sheet metal industry. In the course of the following years we developed this line of business further. Shipping tubes, rings, shelf tubes, display tubes and construction tubes completed the product portfolio. Production facilities were also expanded to include parallel-wound heavy-duty tubes.

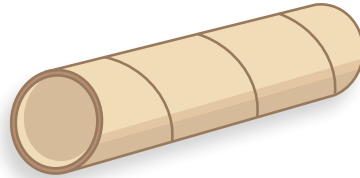
Since 2003, as well as conventional tubes with cylindrical cross-section, we have also been marketing square and rectangular tubes.

TFT tubes lend themselves to an enormous range of uses. They have the advantages that they retain their shape and weigh very little. Being manufactured mainly from paper, they can be recycled and are therefore kind to the environment.



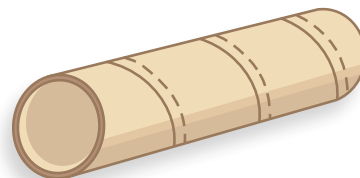
## Core tubes

Core tubes differ from shipping tubes in their surface quality: the outer web is wound edge to edge and, if required, lightly rubbed. They thus have a smooth surface and are outstandingly suited for winding wide and flat or slender material, such as films, papers, textiles or yarns. They are also used to protect sensitive shafts or as spacers in the packaging industry.



## Shipping tubes

Shipping tubes are characterised by an overlapping outer web. They are used for shipping, transporting or storing long, bulky and sensitive goods and also make exceptionally good information and advertising media.



## Tubes for special applications

Depending on customer requirements, designs are manufactured to individual requirements from our tube portfolio. Talk to us – we will find the right solution!

### Shelf or display tubes

For trade fairs, theatres, exhibitions, displays and furniture-making.



### Protective tubes

For encasing high-quality component parts with sensitive surfaces. Also available slotted.



### Telescopic tubes

There is a choice of two different variants: those which slide inside each other and those joined by an adapter tube.



### Special-purpose tubes

Manufactured to individual specifications for many different uses in very diverse sectors.



### Tubes for explosives

Explosive cartridges for detonation in deep drilled core holes.



### Construction tubes

For cladding supports and columns in the building industry.





## Formats

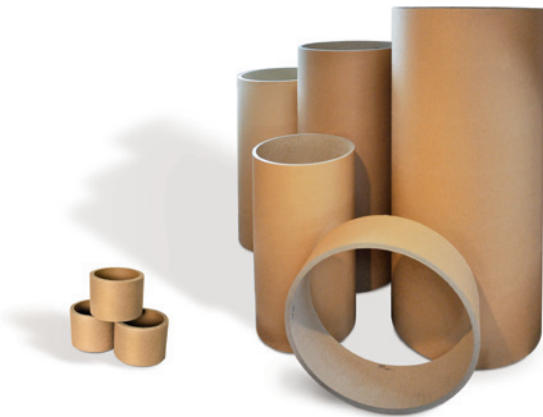
Both core tubes and shipping tubes can be manufactured cylindrical, rectangular or square. Various diameters and cross-sections are available.



### Spiral-wound cylindrical tubes

**Technical data:**

diameter ..... 9 mm to 1000 mm  
wall thickness ..... 0.75 mm to 25 mm  
length ..... 5 mm to 7000 mm



### Parallel-wound cylindrical tubes

Characterized by a very high stability and wall thickness.

**Technical data:**

diameter ..... 220 mm to 800 mm  
wall thickness ..... 2 mm to 50 mm  
length ..... 5 mm to 1620 mm



### Spiral-wound square tubes

**Technical data:**

cross-section ..... 30 mm x 30 mm to 210 mm x 210 mm  
wall thickness ..... 2 mm to 6 mm  
length ..... 300 mm to 6000 mm



### Parallel-wound square tubes

**Technical data:**

cross-section ..... 260 mm x 260 mm  
to 550 mm x 550 mm  
wall thickness ..... 2 mm to 4 mm  
length ..... 100 mm to 1580 mm

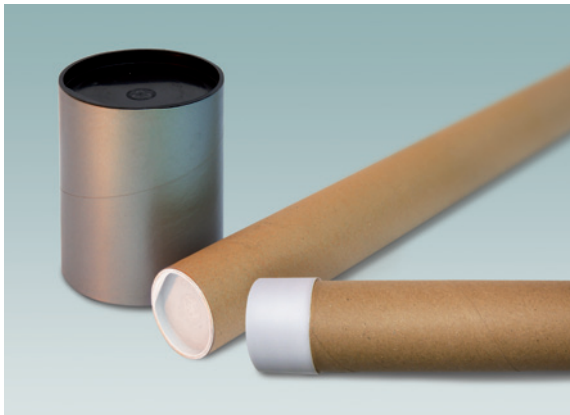




## Closure and handle variants

### Bottom and lid

For closing the tubes you can select from the following versions of bottoms and lids:



#### Plastic push-in bottoms and lids or slip lids

White and black (standard), also available in other colours, as required.

**Technical data:**

diameter cylindrical ..... 9 mm to 320 mm

square cross-section ..... 30 mm x 30 mm

to 260 mm x 260 mm

rectangular cross-section .. dimensions on enquiry

slip lid ..... dimensions on enquiry



#### Metal push-in lids or screw lids

Dimensions on enquiry.



#### Cardboard push-in bottoms and lids

If required, reinforced with wooden crosspiece.

**Technical data:**

diameter cylindrical ..... 50 mm to 660 mm

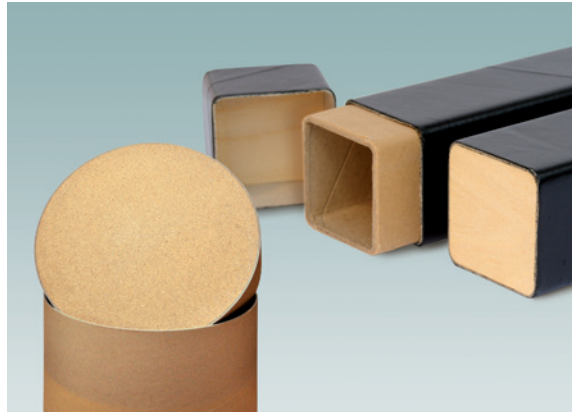
square cross-section ..... on enquiry



### Plywood or MDF bottoms and lids

Special design as required.

Also available for tubes up to 1000 mm.



### Crimped-end

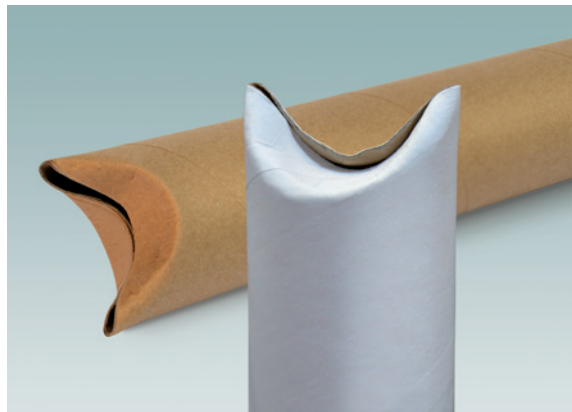
Practical closure by means of pressed-in cut edges without additional aids.

#### Technical data:

diameter ..... 50 mm to 100 mm

wall thickness ..... 1.5 mm to 2 mm

length ..... 330 mm to 1150 mm



## Fastening variants

To achieve a firm bond between tube and closure the following kinds of fastening are available:

### Loosely pressed in



### Glued



### Clips



### Stapled



## Handle variants

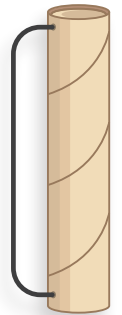
We offer cotton cord handles in various versions:



**Carrying strap**



**Short cord**



**Long cord**

## Options

Tubes can be individually further processed in many different ways, as required. The following types are possible:

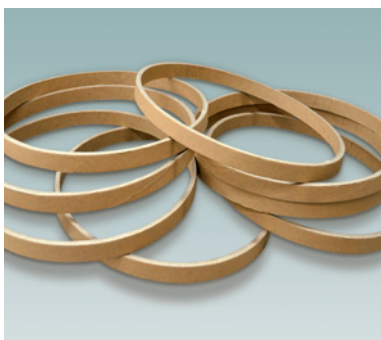
### Milling/punching



### Angle cutting



### Rings



### Splitting (quarter, half and three-quarter shells)

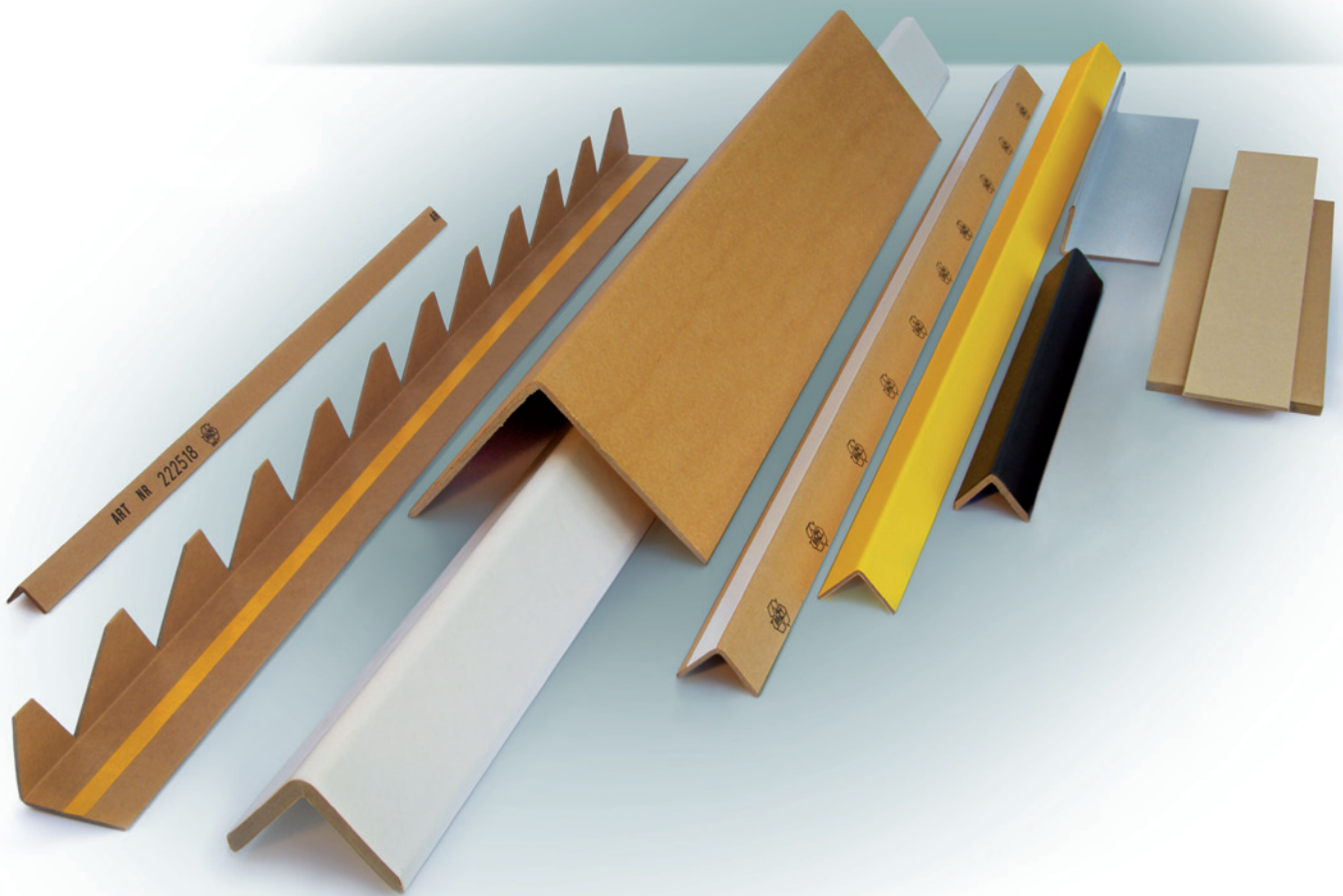


# Protection during transport and storage



For the transport and storage of sensitive goods we manufacture edge protectors and flat-profiles. They are a simple means of protecting corners, edges or straight surfaces. They can be quickly and easily fastened with straps, double-sided sticky tape or hot-melt adhesive applied to the goods to be transported.

By using coloured or printed outer webs the protectors and profiles can also be used effectively as an advertising surface. For special applications they can also be covered with plastic, aluminium or foam plastic.





## Edge protectors

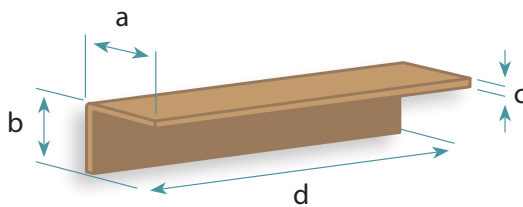
The L-shaped profiles can be combined with various symmetrical and asymmetrical leg lengths and wall thicknesses. Even round products can be optimally protected by roll edge protectors.

### Technical data:

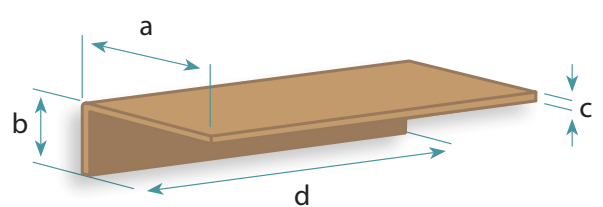
- a, b leg lengths ..... 25 mm to 150 mm
- c wall thickness ..... 2 mm to 10 mm
- d length ..... 40 mm to 6000 mm

The protectors can be made self-adhesive by applying double-sided sticky tape inside or outside or by providing a hot-melt bead. Thick wall thicknesses offer special protection for sensitive goods, while cutouts ensure that the edge protectors adapt to fit nearly all packed goods.

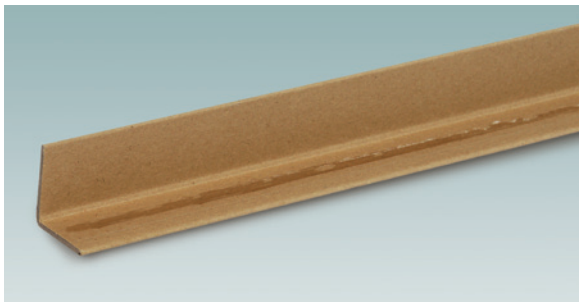
### Symmetrical edge protectors



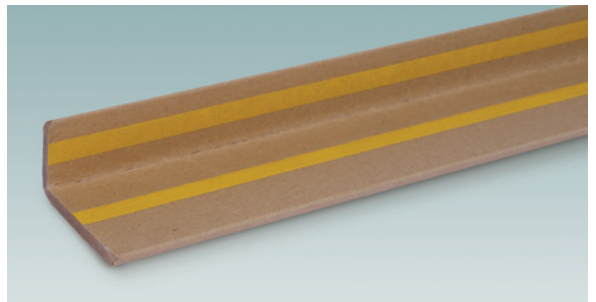
### Asymmetrical edge protectors



### Hot-melt-coated



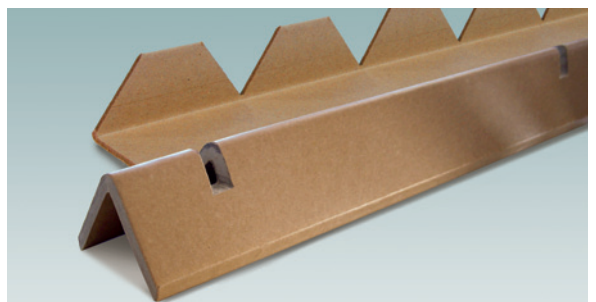
### With adhesive strips



### With extra-thick wall thicknesses



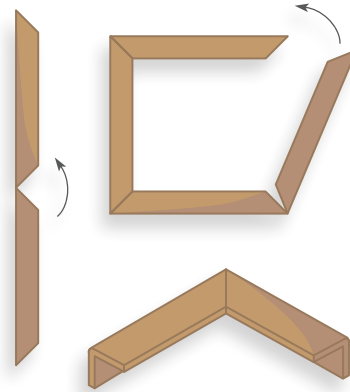
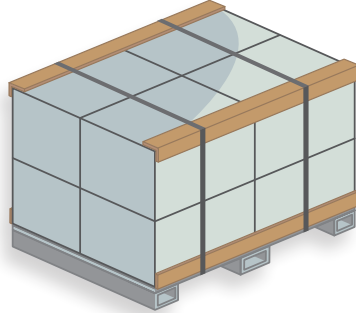
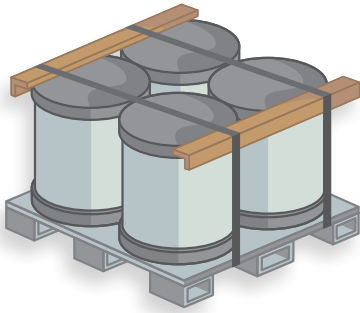
### With cutouts



## Possible uses

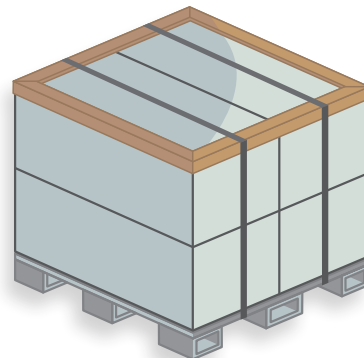
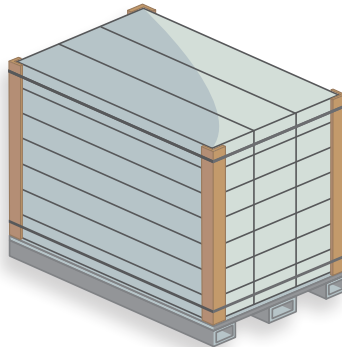
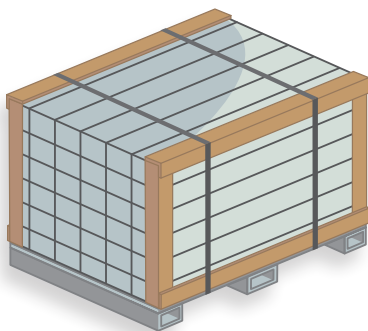
### Protective edges

To prevent damage and deformation during strapping and to secure goods being loaded against slipping.



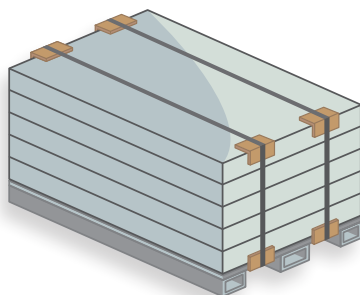
### Corner edge protectors

To prevent damage to and deformation of corners and edges from impact and to increase the stability and stackability of packaged goods.



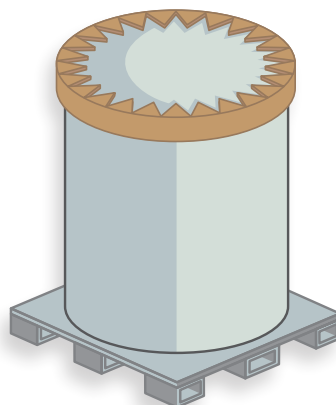
### Band protectors

To prevent pressure points.



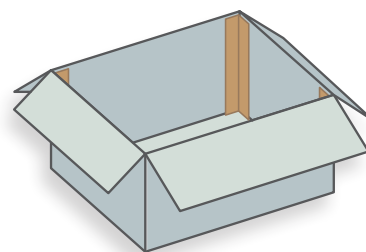
### Roll edge protectors

To protect round, oval or irregular edges.

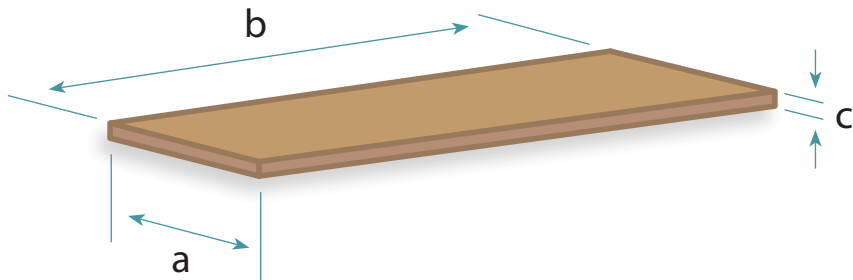


### Inside corner reinforcement

To stabilise folding boxes with heavy loads, to prevent deformation and so to ensure the stackability of the boxes.



## Flat profiles



These are used as inserts, spacers or to protect flat surfaces.

### Technical data:

a width ..... 40 mm to 160 mm  
b length ..... 50 mm to 6000 mm  
c wall thickness ..... 2 mm to 10 mm

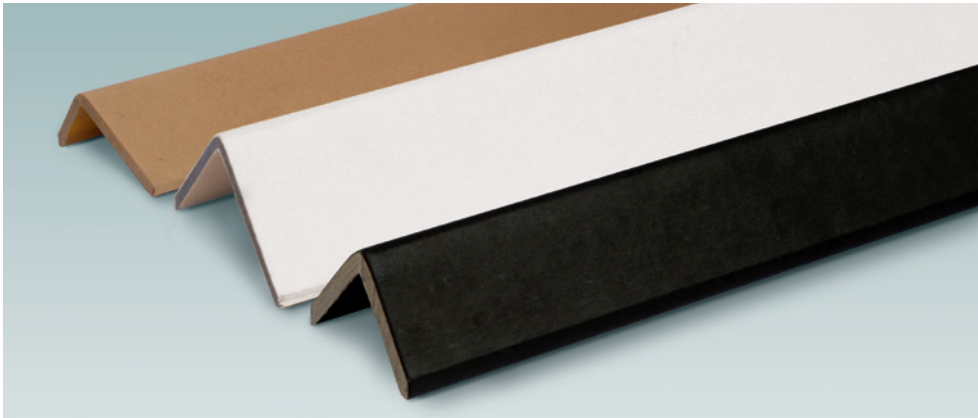


## Design variants

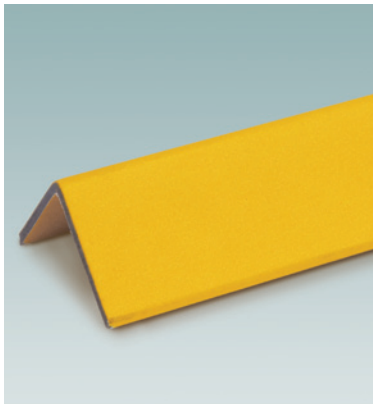


As well as natural colours (natural unbleached brown, white and black) the outer paper webs of the edge protectors and profiles can be variously coloured or repeat-printed in up to eight colours. Moreover, lamination with plastic, aluminium or foam plastic is also available.

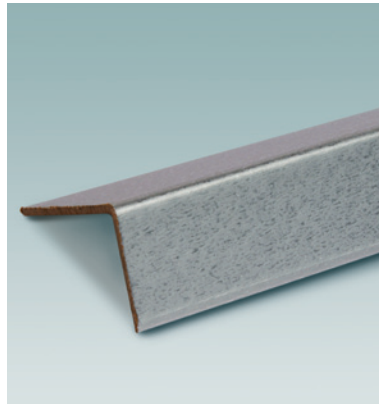
### Standard colours



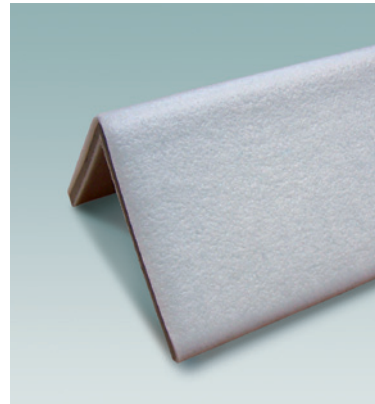
### Coloured



### Aluminium-laminated



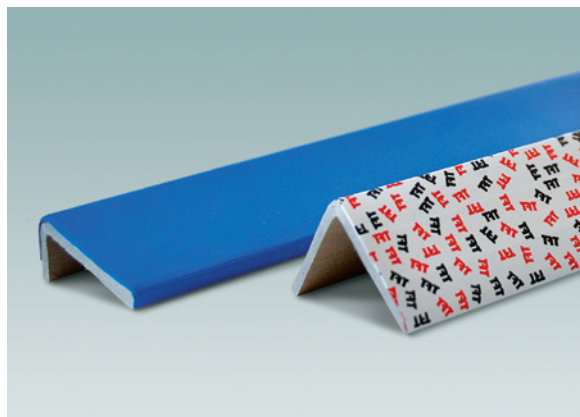
### Plastic-foam-laminated



### Inline-printed



### Flexographic print (offline)

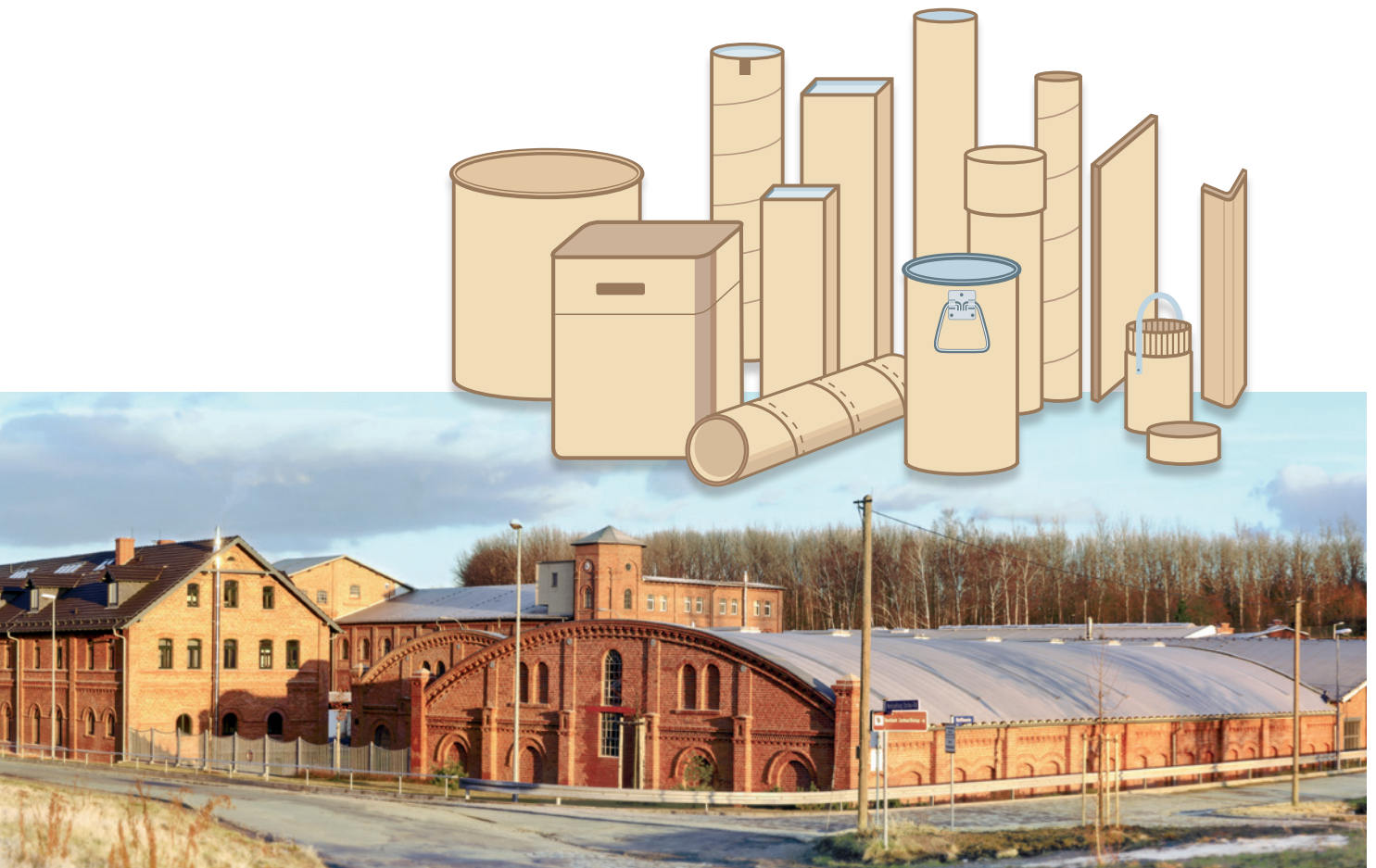


# TFT Trust in our strength!

The TFT Thüringer Fiber-Trommel GmbH is a family-run medium-sized company. It has been based in Rositz in eastern Thuringia, a place of great industrial tradition, since 1965. Although firmly rooted in the region, it exports all its products worldwide.

TFT specializes in paper – which is both a traditional material but also a material with a sustainable future. The TFT portfolio has been built on three pillars: fibre drums, shipping tubes and edge protectors. TFT's customers appreciate its reliable quality, flexibility, short production times and adherence to deadlines. Decades of experience with paper as a material and its own research and development department enable the company to satisfy individual customer requirements and operate innovatively on the market.

What can we do for you? Call us. A warm welcome is guaranteed!



**TFT**  
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Thüringer Fiber-Trommel GmbH  
An der Raffinerie 6  
04617 Rositz  
Tel.: +49 (0) 34498-456-0  
Fax: +49 (0) 34498-456-30  
E-Mail: [info@tft-verpackungen.com](mailto:info@tft-verpackungen.com)  
[www.tft-verpackungen.com](http://www.tft-verpackungen.com)

