

SpanSet secutex®

02

Lifting
Buffer pad
Lifting equipment





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Topics

Why secutex-buffer pad?

A significant portion of the total costs of a good are the result of damage resulting from improper handling. Negative health effects through noise are a cost factor that are often not considered properly. With secutex buffer pad, you can reduce the unnecessary costs and do away with sources of danger.

secutex buffer pad acts as a bumper anywhere products are damaged through their own weight or handling. Foaming or cavities formed under load increase this bumper effect. Buffer pad prevents loads from sliding during transport and absorbs the sound of falling materials and other sources of noise. This prevents noise from occurring in the first place.

Topic/Product	Chapter	Page
Effect	02.1	28
Types of buffer pad	02.1	30

Why is secutex-buffer pad a versatile jack-of-all-trades?

Secutex-buffer pad is a polyurethane elastomer with particular physical and chemical properties and the type of bufer pad which is used in the majority of the product range. In comparison to

other chemical ingredients it is very tear-resistant and has a high elasticity. The very good abrasion resistance ensures extra-long lifespans

Topic/Product	Chapter	Page
Long-term effect	02.1	29
secutex buffer pad	02.1	30

What types are there?

Secutex-buffer pad is a versatile jack-of-all-trades and can be found in nearly all secutex products. Buffer pad can be produced in nearly any shape. The production process allows for cost-efficient and rapid production. secutex buffer pad is available in various degrees of hardness. This allows the expansion behaviour to be optimally adapted to the relevant conditions of use. The

“Heat” version permits use under temperatures up to 140° C or, optionally, up to 180° C. secutex “Soft” and secutex “Softpad” are types of buffer pad with a high level of absorption. This foam is available in various degrees of hardness, soft on the inside and hard on the outside.

Topic/Product	Chapter	Page
Secutex types	02.1	30

Why is secutex buffer pad easy to manufacture and to install?

The durable polyurethane elastomer is very easy to manufacture. Using conventional tools, the secutex-buffer pad can be sawn, milled and worked on a lathe. Normal wood or metal drills also work well.

secutex-buffer pad with integrated perforated plates can be screwed or riveted in various ways. The various projecting perforated plate sections allow it to be quickly and easily welded.

Topic/Product	Chapter	Page
Buffer pad can be machined easily	02.1	34
SPL for bolting, welding and bonding	02.1	40

Topics

Why is secutex Coilprotect the solution for the safe handling of coils?

When they are being processed, coils must be provided in a standing position. Tipping coils frequently leads to serious workplace accidents. The protection of the coils ready for processing is also very important. Improper storage is the cause of pressure marks which can affect the quality of the coils to a significant depth. secutex

Coilprotect was specially developed for the sheet industry and is the optimal solution for the safe handling, rational transport and careful storage of coils and wire bundles.

Topic/Product	Chapter	Page
For careful coil handling and safe storage	02.2	71
secutex coil storage-steel	02.2	72
For flexible storage	02.2	74
secutex split coil lifting sling	02.2	78

Why is secutex fork protection intended for the handling of sensitive goods?

In addition to the coating of lifting forks, the fork backs can also, depending on use, be equipped with secutex impact protection. The secutex coating is particularly slip-resistant, meaning that the

load cannot slip off. secutex impact protection is particularly abrasion-resistant, noise-cancelling and damping. This ensures long-term use.

Topic/Product	Chapter	Page
secutex fork protection shoes protect your loads	02.3	84
secutex fork protection for fork backs	02.3	86

How are typical damages in high bay warehouses prevented by secutex collision protection?

European norm DIN EN 15635 "Application and maintenance of storage facilities" was released. Storage areas must now be independently inspected once per year. Damaged shelf supports must be replaced immediately. This means that a construction site appears in the middle of the warehouse, goods must be moved and storage

space becomes scarce. Protect your investment with secutex collision protection. The flexible secutex profile cushions the impact and the solid steel construction of the collision protection prevents the shelf support from bending.

Topic/Product	Chapter	Page
Protect your storage facility with secutex collision protection	02.4	97
Collision protection for shelving supports	02.4	101
Collision protection for corners and posts	02.4	101

Why is secutex securoll innovative roller and roll protection?

With securoll, secutex offers a coating specifically developed for rollers and rolls. It can be used in a cast form or applied directly to the rollers. The particularly sturdy secutex-buffer pad ensures high mechanical capacity and wear-resistance on

the part of the rollers and rolls coated with securoll. The securoll rolls can optionally be equipped with an easy-to-install exchangeable core with two side plates and a central axle.

Topic/Product	Chapter	Page
secutex securoll – An innovative roller and roll coating	02.5	105
secutex rolls with exchangeable cores	02.5	107

Product variations

Collision protection

secutex collision protection can be used anywhere sturdy and long-lasting bumper protection is required.



Collision protection for building supports



Ramp protection for storage areas



Corner protection



Stainless steel collision protection [food industry]

Coil storage

Various standards and special solutions are available for the storage of coils and split bands.



Coil mat with handles



Coilprotect Semi with marker poles



Coil mat with oil drainage channel



Coil mat with end cap

Buffer pad

Thanks to its various versions and degrees of hardness, buffer pad is suitable for installation in machinery and maintenance sector



Lining for pipe raising systems



Support protection for glass frames



Noise and materials protection



Support protection for processed surfaces

Product versions

Rolls

With secutex, rolls, screws and rollers can be coated for use in transportation within the processing chain.



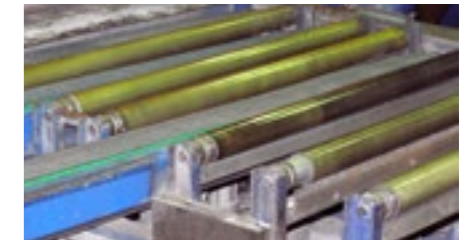
Heat-resistant and slit feeding rolls



Guide and pressure rolls with exchangeable cores



Transport screws for lateral movement



Rollers for the transport of sensitive profiles

Special versions

The applications of secutex-buffer pad are incredible varied.



Supports for rotor blade transport frames



Support protection for working platforms



360° protection for working platforms



Hoppers for rod materials

Fork protection

Fork and mandrel coatings for the safe and careful transport of sensitive goods.



Coatings for fork arms and fork backs



Semi-circular forks for the transport of concrete pipes



Soft backs with attachments slits



Pipe modules for forklift mandrels

Application

General mechanical engineering

Application	Product	Advantages
Guiderrails	Buffer pad profiles	Very rational mounting options
Feed units	Buffer pad profiles	Effective thanks to cast load bearers
Rolls	Roll coating	Perfectly-adapted solutions

Automotive industry

Application	Product	Advantages
Coil shelf	Buffer pad flat	Protection of high-value coils
Coil storage	Coilprotect, coil mat	Protection of high-value coils
Transport frames	Optimised special profiles	No damage to transported items
Feeder units	Optimised special profiles	Cost-effective thanks to cast load carriers

Wire plants

Application	Product	Advantages
Wire guides	Buffer pad flat	Noise protection
Forklift mandrels	Pipe modules	Protection of wires, workplace safety

Glass-processing operations

Application	Product	Advantages
Work surfaces	Semi-circular buffer pad	Slip-prevention work surfaces
Storage racks	Buffer pad flat	Protection of sensitive edges

Nuclear power plants

Application	Product	Advantages
Machine part storage	Storage beams	Can be decontaminated, no danger of breaking
Pipe transport	Transport cavities	Safe transport

Food industry

Application	Product	Advantages
Walls, posts, corners	Buffer pad flat, collision protection	No more dents in walls
Transport by fork lift	Fork protection	Slip prevention

Anwendung

Logistics

Application	Product	Advantages
Loading ramps	Ramp fenders	Long lifespan, absorption
Shelves, posts, corners	Collision protection	Protecting shelf supports, no downtime

Non-ferrous metals

Application	Product	Advantages
Coil storage	Buffer pad flat	Protection of coils, no contact corrosion
Storage racks, shelves	Buffer pad flat	Protection of coils, no pressure points

Pipe factories

Application	Product	Advantages
Pipe raising systems	Pipe modules	Protection of pipe ends, noise protection
Outflows	Buffer pad flat	Protection of pipes, noise protection
Impact cushioning	Buffer pad, hollow profile	Noise protection
Rolls	Roll coating	Works by taking the roll's form

Heavy machinery and steel production

Application	Product	Advantages
Turning pads	Turning mat	Safe turning of even the heaviest components, no uncontrolled slipping of loads, very long lifespan

Steel and roller mills

Application	Product	Advantages
Coil placement	Buffer pad flat	Protection of high-quality coils
Coil storage	Coilprotect, coil mat	Protection of coils, workplace safety
Coil transport	Magnet protector	Protection of coil sides when handling using a gripper
Coil hooks	Buffer pad flat	

Sheet metal plants and screw production

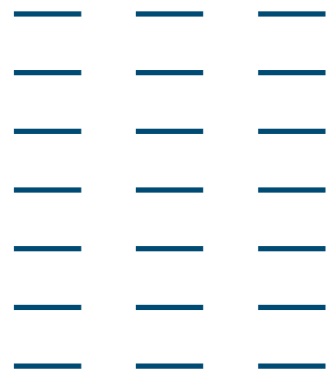
Application	Product	Advantages
Materials chutes	Buffer pad flat	Noise protection, gentler materials handling
Output paths	Buffer pad flat	Pipe protection, noise protection



**How does secutex impact protection
improve the quality of your products?**

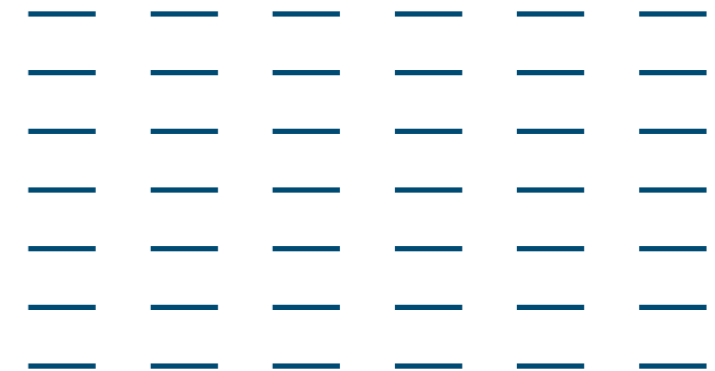
A photograph of a warehouse aisle. On the left, there are rows of metal shelving units with red and gold protective bumpers at the base. In the background on the right, a person wearing a grey vest and white shirt is operating a yellow and grey forklift. The floor is a light-colored concrete.

How secutex impact protection gives you more time and safety.





A coat above the rest!



Regrinding, repainting and remachining: The flexible, but also durable, secutex - buffer pad provides reliable protection from expensive damage to your high-value goods. Often the solution is paramount. Thanks to the integrated perforated plate, secutex - buffer pad can simply be bolted or welded.

secutex is a highly wear-resistant polyurethane, which was developed 30 years ago for lifting sharp-edged components. In the years that followed, new solutions for materials protection and noise reduction were regularly constructed. Thus, today almost all bricks in Europe are moved using secutex protective coatings. secutex protection is almost the industry standard for the lifting and storage of sharp-edged metal sheets.

For us, health and safety at work is even more important than the prevention of damage to materials. Our expert advisers can present a number of innovative solutions to you whereby, using secutex - buffer pad, noise is prevented directly at source. And noise that is not produced does not require expensive sound insulation.

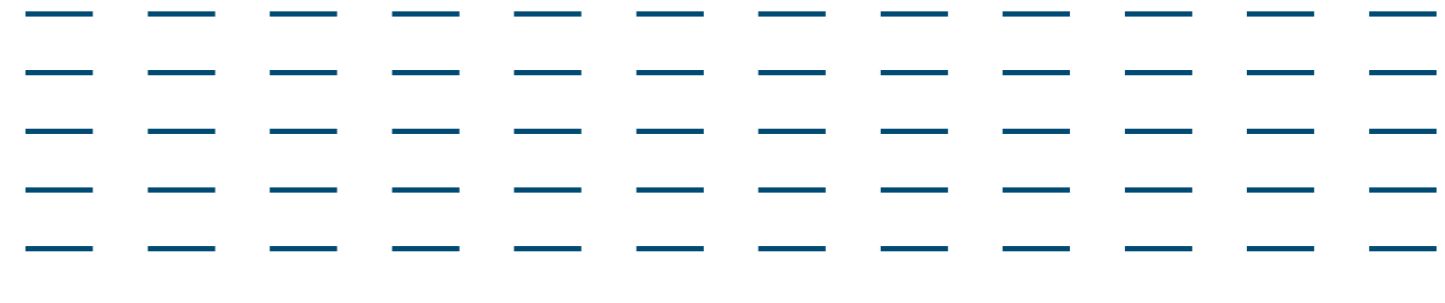
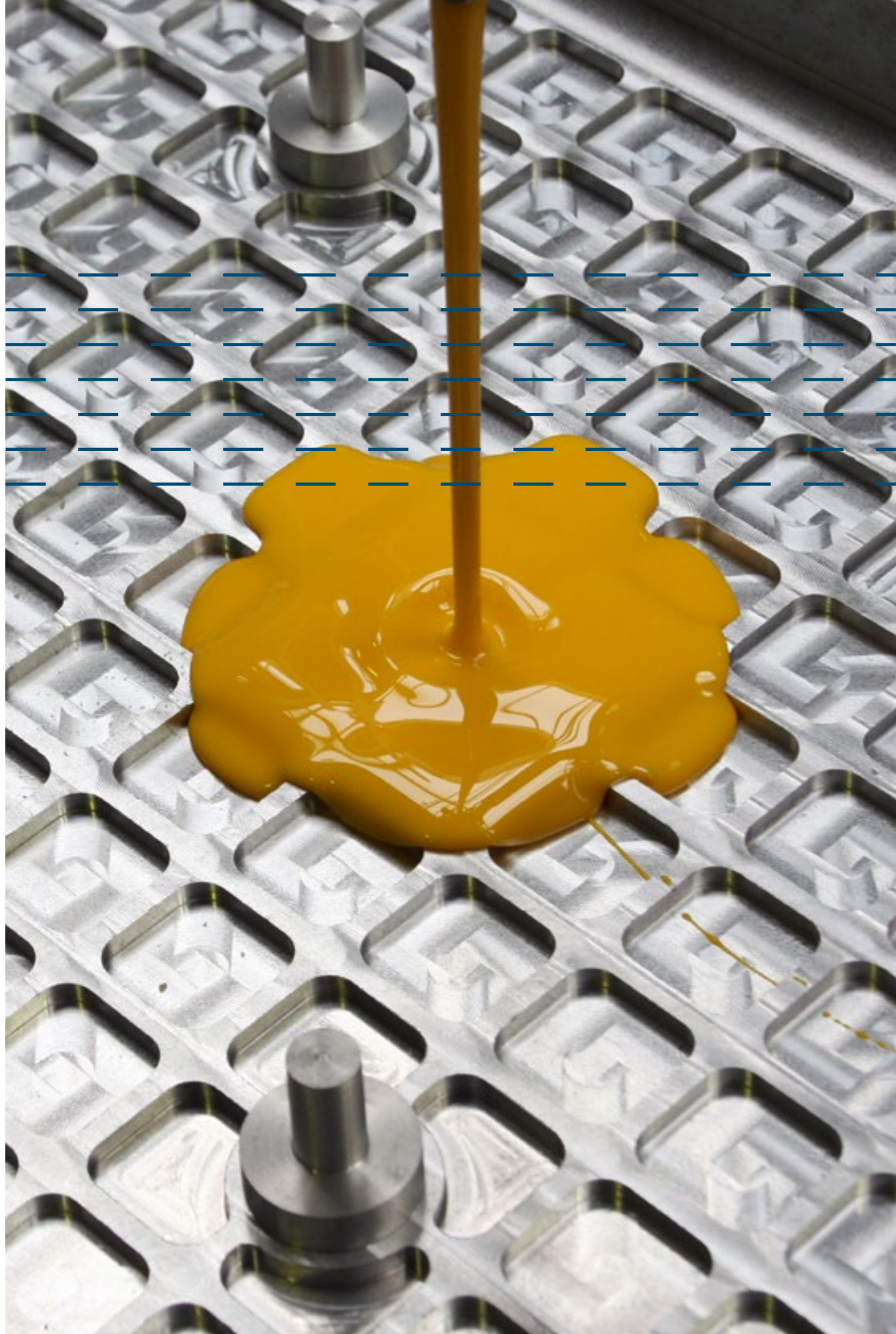
New solutions can only be developed by working in close collaboration with our customers. We have a supplier near you, and our experienced advisers will be pleased to provide you with information on the myriad possibilities of secutex - buffer pad.

Boris Franke
Managing Director

02.1

secutex-Prallschutz

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secutex - buffer pad Special properties and highly versatile.

A significant proportion of a product's total costs are attributable to damage resulting from a lack of buffer pad. The principal causes of this are carelessness, negligence and improper handling. This represents avoidable damage to goods and stock. However, staff absenteeism due to accident or noise-induced hearing loss is a cost factor that is easily overlooked; but which significantly reduces profits. secutex will enable you to reduce unnecessary costs and remove sources of danger.

The advantages

- Safety at work for the user
- Reliable workflow
- Secure handling speeds up workflow
- Less materials damage
- Guaranteed compliance with statutory requirements

secutex is an excellent polyurethane elastomer with a particularly advantageous combination of physical and chemical properties.

High structural strength

secutex offers extremely high tensile strength compared to other chemical materials. This enables the secutex material to be stretched to 500% of its original length without breaking.

High flexibility

secutex offers considerably greater flexibility in comparison to conventional rubber. secutex retains its flexibility even under extreme temperature fluctuations.

Extreme wear resistance

secutex is virtually indestructible. In wet wear resistance tests secutex performed better than many metals.

02.1 BUFFER PAD

Modes of action

The modes of action

Damping effect

Where forces collide, materials are often unintentionally damaged. Impact damage to goods and stock often occurs due to carelessness, negligence, recklessness, improper handling or a lack of protection. secutex - buffer pad has a damping effect everywhere where products can be damaged under their own weight or during handling. In addition, foam coatings and hollow sections, which deform under loading, increase the damping effect, such as, for example, in secutex - Soft, secutex - SoftPad and secutex - Hollow Profile.

Anti-slip effect

secutex prevents loads from slipping and slipping off during transport. In tests, secutex scored higher than all comparable materials. secutex not only meets the standard, it exceeds the friction coefficient values standard currently in force. For wet or oily surfaces we recommend secutex with textured surfaces. Direct material contact is thereby re-established.



Noise-reducing effect

Around 60% of all occupational illnesses can be attributed to noise. Even short peaks above 140 db or more sustained noise of 70 db can cause long-term damage to hearing. secutex - buffer pad dampens the impact of falling materials and other sources of noise at contacting surfaces. This prevents noise from being produced in the first place. The expensive insulation of equipment is no longer necessary.

Long-term effect

secutex - buffer pad is extremely resistant to abrasion. Extreme cutting resistance ensures extra-long service lives. With high pressure loading and flexing we recommend the use of harder materials. secutex combined with fabric or fibre glass reinforcement exhibits an even greater wear resistance than secutex without reinforcement.

Bild: secutex-Anfahrerschutz SAS-E

02.1 BUFFER PAD

Types of buffer pad

The buffer pad types

secutex buffer pad

A versatile all-rounder

secutex - buffer pad is a polyurethane elastomer with special physical, chemical and mechanical properties and is the type of buffer pad that is used throughout the majority of the product range. Buffer pad products are used in industry as noise and material protection in places, where products and loads may be damaged under their own weight or during processing steps.

Precise mouldings

secutex - buffer pad can be made into virtually any shape. The in-house design and CNC-controlled mouldmaking, along with our application engineers, will find the right solution.

Efficiently reproducible

Buffer pad mouldings can be manufactured and reproduced quickly and cost-effectively. The manufacturing process offers many advantages. This eliminates the exactly-reproducible drilling of the holes that are used for mounting. Bolts or other components are simply included in the casting (see figure above).

Optimally matched

Available in different degrees of hardness, the damping moment of the buffer pad can be optimally matched to the surface characteristics of the product.

If the various types of buffer pad are combined, their product characteristics add up to new products that often enable alternative means of processing - a competitive advantage for many of our customers.



secutex Heat

Heat-resistant buffer pad

For hot processing.

Non-ferrous metals, such as gold, copper or brass, get hot during processing and have a sensitive surface. Rollers and cylinders coated with secutex Heat protect bar stock during production; abrasion and run marks are reliably avoided.

Operating temperature up to 150°C

Apart from the positive mechanical and chemical properties, secutex Heat is an elastomer material for operating temperatures up to a maximum of 150°C.

Operating temperature up to 180°C

As an option, „Heat“ can be finished with an aramide fibre surface. The operating temperature thereby even increases to a maximum of 180°C.

secutex Soft and secutex SoftPad

Buffer pad with a high damping value

Foam with varying degrees of hardness

secutex Soft is in itself stable, yet acts as a damping foam available in different foam hardnesses. The open-pored material is machined along with secutex buffer pad. Thus buffer pad components are produced that are easy to mount and are particularly wear-resistant, without sacrificing their high damping value.

Foam core with closed surface

The open-pored foam core of secutex SoftPad is covered with a closed outer skin. This prevents fluids or dirt particles from entering whilst the material possesses a very high damping value. It flexibly adapts to the contour of the load.

Soft on the inside, robust on the outside

secutex Soft and secutex SoftPad can be produced as a moulding (e.g. for boat supports and bearing surfaces for rotor blades). Mounting holes and threaded bolts are included directly in the casting - as is standard for buffer pad. The supplied components can then be mounted immediately.

Technical data and material samples

We are happy to provide you with technical data as well as material samples for you to experiment with at your company. Please contact us.

Figure: CNC-controlled mouldmaking brings about the right solution.

02.1 BUFFER PAD

Machining

Buffer pad may be easily machined

Cutting and sawing

The secutex material may be sawn using a conventional band saw. The material will attempt to resist the cutting tool. Use as low a wedge angle as possible and, if necessary, adjust the cutting speed.

Milling

Use commercial milling cutters with low numbers of teeth. Peripheral velocity of about 200 to 400 m/min; clearance angle a 10° and rake angle γ 25°. The use of a drilling emulsion is recommended for cooling and surface optimisation.

Turning

This may be done using commercial SS turning chisels (tool angle = 12°; β = 53°; γ = 25°). Cutting speed approx. 300 to 500 m/min for hardnesses < 80 Shore A and 100 to 200 m/min for hardnesses < 90 Shore A. Feed rate of approx. 0.1 - 0.2 mm/rev. The use of drilling emulsions is recommended for cooling and surface optimisation. The harder the secutex material, the better the surface finish. A belt grinder is recommended for regrinding.



Drilling

No special tools are required. Normal wood or metal drills are adequate. Cutting speed around 40 m/min; feed rate around 0.01 to 0.03 mm/rev. At low Shore hardnesses, secutex can expand. Therefore, the hole can end up being up to 5% smaller.

Grinding and roughening

secutex can be machined using a belt grinder (normal grain or with a ceramic bond). Important! Grinding speed approx. 30 to 50 m/sec.

secutex-Service: During production, holes, stepped holes and threads are incorporated during casting in accordance with customer specifications and exact measurements. Stamping can also be performed in-house.

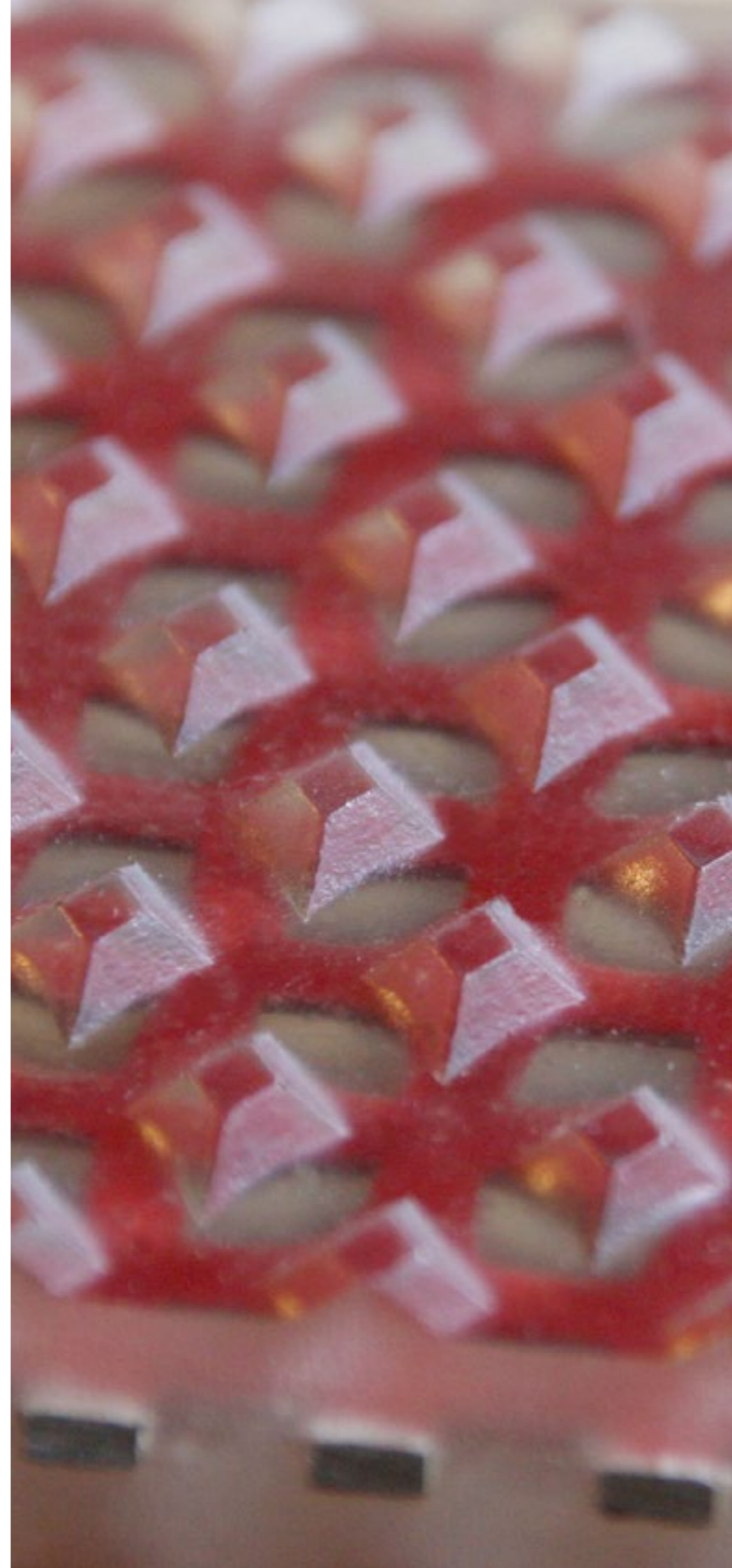
02.1 BUFFER PAD

Different surfaces

Buffer pad with various surfaces

It is the surface that counts!

secutex - buffer pad can be manufactured with various surface finishes. This is important for applications that are affected by water, oil or ice.



Smooth

This surface is used for secutex - buffer pad applications where there is no water or oil between the load and the buffer pad. When dry, the smooth surface is slip-resistant.



Ground

The surface is slightly roughened. It is used where the buffer pad only comes into contact with fluids. The rough surface remains slip-resistant.



Fabric

In the case of fabric, the surface of the buffer pad is very rough. This is important if it continuously comes into contact with oil and water. The high degree of roughness ensures a durable non-slip finish.



Pyramids

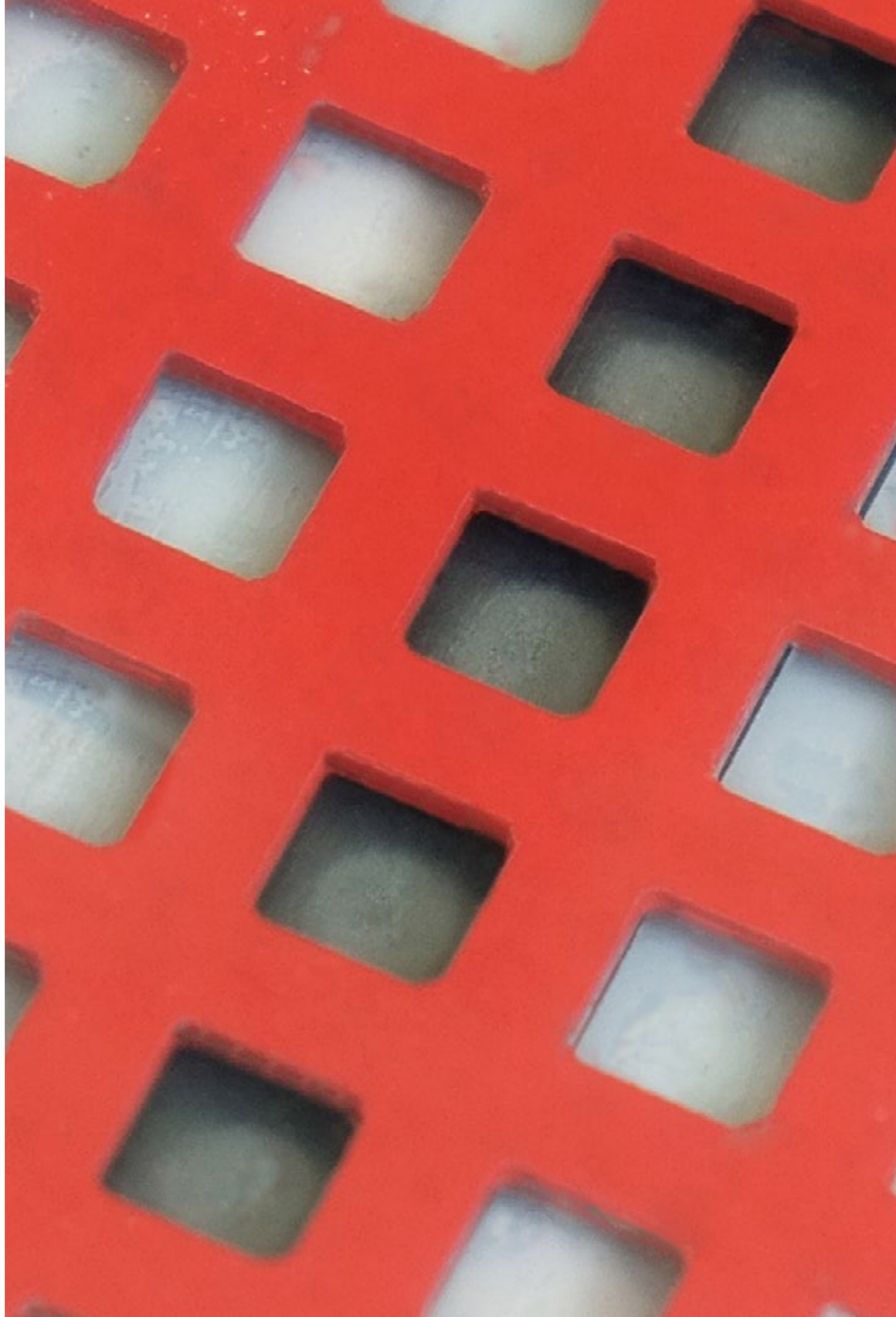
Buffer pad with this surface is used predominantly for anti-slip protection on flooring.

Figure: secutex - Buffer pad with perforated plate and pyramid surface.

02.1 BUFFER PAD

Designs

Buffer pad designs overview



Buffer pad without perforated sheet

secutex - buffer pad without perforated plate reinforcement may be perfectly adapted to the area of application (e.g. as a moulding or tile). The material provides maximum flexibility and can readily be bonded wherever drilling or riveting is not possible.

Buffer pad with perforated plate insert

Perforated plate reinforcement in secutex buffer pad prevents longitudinal and transverse flexing of the material. Moreover, the hole matrix enables the flexible positioning of bolts, rivets or spot welds.

Buffer pad with fabric insert

The fabric insert supports the stability without compromising the flexibility of secutex - buffer pad. At the same time, the fabric prevents stretching in the longitudinal or transverse directions and remains substantially dimensionally stable even at sharp edges. secutex - buffer pad with fabric insert may be glued as per instructions or attached by means of large-surface metal disks or flat bars. Internal fibreglass reinforcement increases robustness even further.

Figure: secutex - Soft for fork lift truck fork shanks prevents damage when transporting roofing tiles



SPL for bolting, welding and bonding

02.1 BUFFER PAD

For bolting and riveting
secutex-SPL-F

For bolting and riveting
secutex-SPL-F

SPL-F

For bolting and riveting

secutex buffer pad with internal perforated plate can be bolted and riveted in various ways. Thus you can achieve universal buffer pad at the drop of a hat.

The advantages

- The perforated plate insert prevents longitudinal and transverse expansion.
- Simple attachment using bolts or rivets

Examples

- Drip trays and tin boxes
- Storage racks
- Coil hooks
- Fork lift trucks
- Corner protection, wall and surface protection

Available in the types of buffer pad

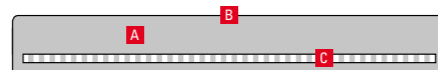
- secutex normal [75° Shore A]
- secutex yellow [55°, 75°, 90° Shore A]
- Heat-resistant „secutex-Heat“

Thickness: min. 10 mm

Widths: 20 - 1.000 mm

Standard length: 3.000 mm

SPL-F in cross section:



Options

A Sorts

Buffer Pad Sorts	Surface hardness [Shore A]
secutex normal	75°
secutex yellow	55°, 75°, 90°
secutex-„Heat“	90°

B Surface

Type of surface

	Smooth
	Ground
	Fabric
	Pyramids

C Reinforcement

Perforated plate reinforcement Standard color: red
Special color: black/yellow

	Perforated plate
	sheet steel base
	Heavy-load design
	Stainless steel

02.1 BUFFER PAD

Welding
secutex-SPL-F

Welding
secutex-SPL-F

SPL-F

For welding

Often welding is the easiest and quickest means of attachment. The various overlapping perforated plate designs enable a wide range of applications. Please note the mounting options and welding instructions!

The advantages

- Simply weld onto the workpiece
- No repeated precision drilling
- No holes in the secutex buffer pad material

Examples

- Drip trays and tin boxes
- Ramp protection
- Lifting trucks
- Fork lift and fork protection
- Supporting column protection

Available in the types of buffer pad

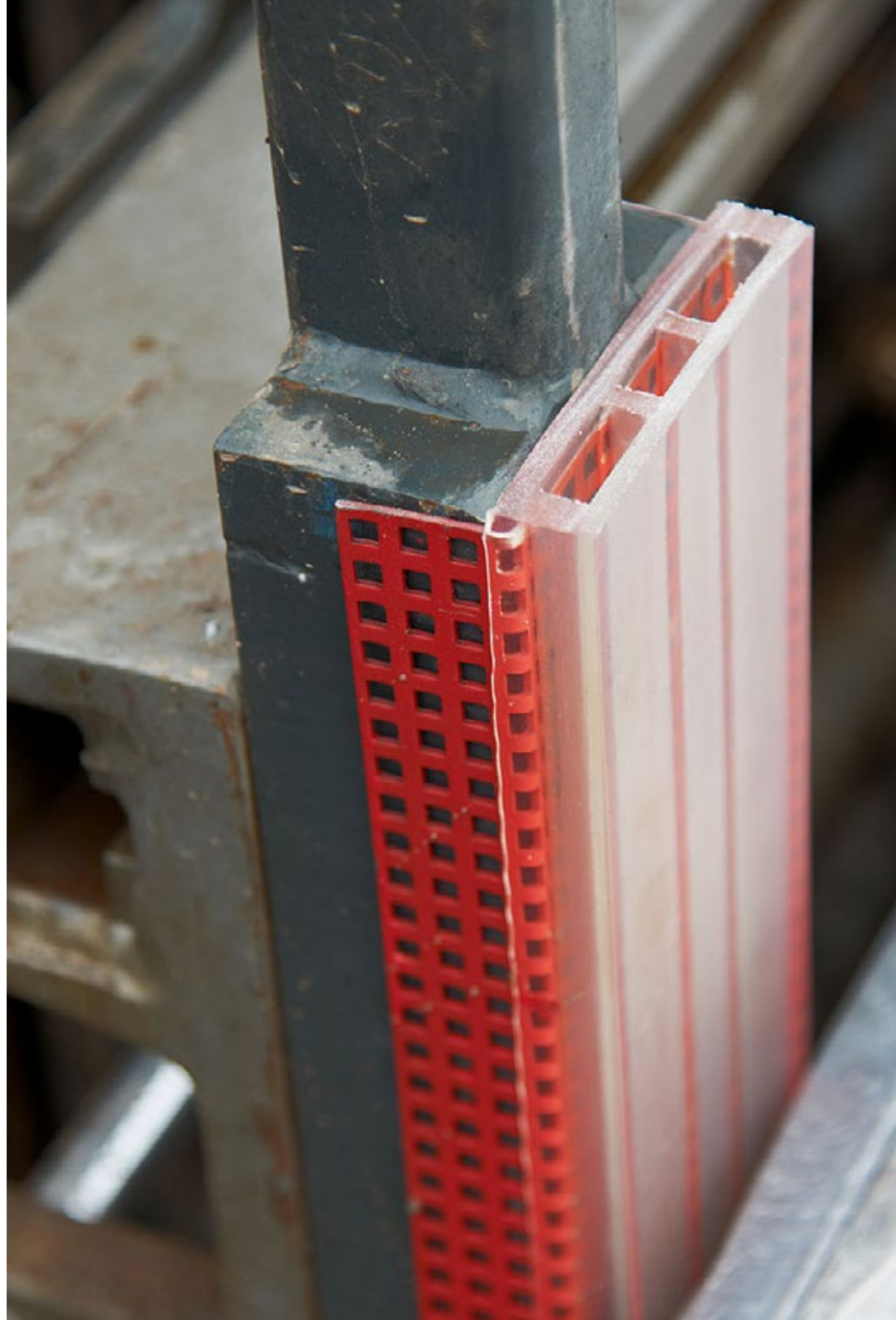
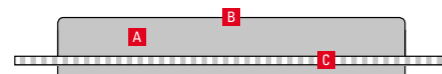
- secutex normal [75° Shore A]
- secutex yellow [55°, 75°, 90° Shore A]
- Heat-resistant „secutex-Heat“

Thickness: min. 10 mm

Widths: 20 - 1.000 mm

Standard length: 3.000 mm

SPL-F in cross section:
Excess perforated sheet metal for welding







Options

A Sorts

Buffer pad sorts	Surface hardness [Shore A]
secutex normal	75°
secutex yellow	55°, 75°, 90°
secutex-„Heat“	90°





B Surface

Type of surface

	Smooth
	Ground
	Fabric
	Pyramids

C Reinforcement und mounting option

Perforated plate reinforcement Standard color: red
Special color: black/yellow

	Perforated plate
	Overlapping, angled downwards at 90°
	Heavy-load design
	Stainless steel perforated plate

02.1 BUFFER PAD

Bolting, bonding
secutex-SPG-F, SP-F

Bolting, bonding
SPG-F
SP-F

SPG-F und SP-F

For bolting an bonding

When bolting or welding is not possible, buffer pad may be bonded using secutex special adhesive.

The advantages

- May be used (almost) everywhere by bonding - No drilling or welding

Examples

- Cold stores
- Painted, veneered walls and surfaces-Steel constructions

Available in the types of buffer pad

- secutex normal [75° Shore A]
- secutex yellow [55°, 75°, 90° Shore A]
- Heat-resistant „secutex-Heat“

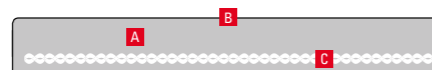
Thickness: min. 10 mm

Widths: 20 - 1.000 mm

Standard length: [SPG-F]: 3.000 mm

Standard length: [SP-F]: 5.000 mm

SPG-F in cross section:



Options

A Sorts

Buffer pad sorts	Surface hardness [Shore A]
secutex normal	75°
secutex yellow	55°, 75°, 90°
secutex-„Heat“	90°

B Surface

Type of surface

	Smooth
	Ground
	Fabric
	Pyramids

C Reinforcement

Fabric reinforcement

	Without reinforcement [SP-F]
	Fabric [SPG-F]
	Fibreglass [SPG-F-F]



A close-up photograph of a mechanical assembly. A dark grey, perforated metal plate is positioned vertically, with a blue metal bar running along its right edge. To the right of the blue bar is a large, orange-colored metal component with a textured surface. The background is dark and shows other parts of the machinery.

SPL with a high damping factor

02.1 BUFFER PAD

High damping factor
secutex-Soft

High damping factor
SPL-Soft
SPL-Soft „Powerflex“

Actively-damping buffer pad

secutex Soft is a stable and yet actively-damping polyurethane foam. Once the load is removed, the foam immediately returns to its initial form. The flexible damping layer of the foam is particularly suitable for sensitive goods and items with uneven surfaces. In the secutex Soft "Powerflex" version, the surface is also protected against the penetration of dirt particles and fluids. It also protects porous materials against abrasion without losing its elastic properties.

The advantages

- Especially suitable for fragile goods
- Impact and damping layer optimally tailored for use
- High noise/sound reduction

Examples

- Grab in the brick industry
- Stop profiles for the furniture industry
- Stop profiles for the pipeline industry
- Fork shank protection for the brick industry

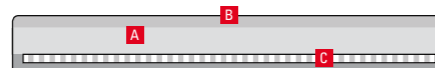
Thickness [SPL-Soft]: : min. 15 mm

Thickness [SPL-Soft Powerflex]: : min. 11 mm

Widths: 20 - 1.000 mm




Standardlength: 3.000 mm

SPL-Soft und SPL-Soft „Powerflex“ im Querschnitt: Optional with secutex-buffer pad-interface or Powerflex.







Options

A Sort

Options	colour	hardness	thickness
Soft „green“		1	5, 10, 15, 20
Soft „blue“		2	5, 10, 15, 20
Soft „yellow“		3	10, 20

B Surface

Type of surface

	Smooth
	Ground
	Fabric
	Pyramids

C

Perforated plate reinforcement Standard color: red
Special color: black/yellow

	With perforated plate
	Without perforated plate

02.1 BUFFER PAD

Buffer pad with high damping factor
SPL-SoftPad

High damping factor
SPL-SoftPad



SoftPad

Foam core with closed surface

secutex SoftPad is an inherently stable yet actively-damping polyurethane foam. SoftPad forms a completely closed external skin which protects against the penetration of fluids and dirt from all sides. Once the load is removed, the foam immediately returns to its initial form. The flexible damping layer of the foam is particularly suitable for sensitive goods and items with uneven surfaces since it optimally adapts to the contours of the surface depending on the load.

The advantages

- Fluids and dirt are unable to penetrate
- Optimum impact and damping layer
- High noise/sound reduction

Examples

- Seats for transport frames
- Boat supports
- Bearing surfaces for rotor blades

SPL-SoftPad in cross-section: SoftPad is created in a mould. This means that the surface is very flexible.






Options

The desired dimensions and foam hardnesses are matched to the product's characteristics.

Reinforcement

Perforated plate reinforcement and components

-  With perforated plate
-  Without perforated plate
-  Moulded components



secutex-Profiles

02.1 BUFFER PAD

secutex profiles
Hollow profiles SPL-HP

Hollow profiles SPL-HP

SPL-HP

Buffer pad with hollow profiles

secutex special profiles offer a particularly high Crumple zone due to their hollow cavities. The particularly robust secutex buffer pad pushes the profile back into its original shape after loading.

The robust design dampens noise during impact and protects the fragile goods.

The advantages

- Very impact-absorbing
- Extremely noise-absorbing
- Excellent abrasion resistance

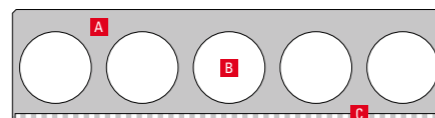
Examples

- Stop profiles for the pipeline industry
- Bumpers for forklift trucks
- Ramp protection
- Corner and post protection
- Pedestal protection

Standard length

- 3.000 mm

Hollow profiles SPL-HP in cross section in the version with Perforated plate reinforcement with 5 holes.



Options

A Height

Sizes	Width [mm]	Height [mm]	Hole diameter [mm]
	30	40	20
	40	50	30
	50	60	40
	60	70	50

B Number of holes

	Number of holes
	1 - 5

C Reinforcement

Perforated plate reinforcement	Standard color: red Special color: black/yellow
	With perforated plate
	Without perforated plate

02.1 BUFFER PAD

secutex-Profile
Ramp protection SPG-RF

Ramp protection SPG-RF



SPG-RF

Robust ramp protection

secutex ramp protection with hollow cavity profile and fabric insert serves as a flexible buffer. The angled hollow cavity absorbs the impact energy and thereby protects against damage.

By default, the secutex ramp fender is finished with a yellow and black fabric insert.

The advantages

- Good damping
- High elasticity
- Long service life
- Bolting is done through the hollow cavity

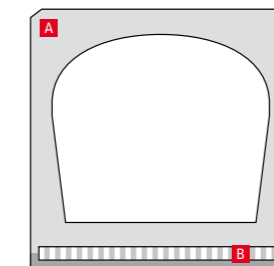
Examples

- Loading ramps
- Pedestal protection

Standard length



- 2.900 mm

Angel SPL-RF in cross section





Options

A Height

Sizes	Width [mm]	Height [mm]
	80	100
	100	100

C Reinforcement

Perforated plate reinforcement Standard color: red
Special color: black/yellow

	With perforated plate
	Without perforated plate

02.1 BUFFER PAD

secutex-Profile
Angel SPL-W

Angel SPL-W

SPL-W

Angled buffer pad

Angled secutex buffer pad with internal perforated plates are mounted when the protection also needs to go round the corner. The buffer pad can be produced with equal or unequal leg length.

The advantages

- Optimum corner protection
- Easy fixing with bolts or rivets

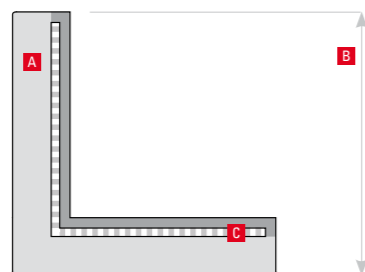
Examples

- Corner and post protection
- Supporting column protection
- Protection of shelving supports

Standard length


- 3.000 mm

Angel SPL-W in cross section.




Options

A Leg thickness

	Thickness [mm]
	10
	20



B Leg length

	Leg length* [mm]
	50, 75, 100, 150, 200

* Leg length equal or unequal possible.

C Reinforcement

Perforated plate reinforcement Standard color: red
Special color: black/yellow

	With perforated plate
	Without perforated plate

02.1 BUFFER PAD

secutex-Profile
SPL-HR

SPL-HR

SPL-HR

Semicircular buffer pad

Semicircular secutex buffer pad is suitable for use with round loads that are machined at the plant. The internal perforated plate prevents longitudinal and transverse extension and is suitable for bolting.

The advantages

- Protection of fragile goods
- Simple mounting using bolts or rivets

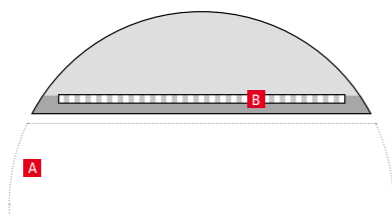
Examples

- Slipways for pipes
- Coil and wire coil racks
- Table trolleys

Standard length

- 3.000 mm

Angel SPL-W in cross section.



Options

A Diameter

Diameter
(mm)



30, 40, 50, 60, 70, 80, 90, 100, 120

C Reinforcement

Perforated plate reinforcement Standard color: red
Special color: black/yellow



With perforated plate



Without perforated plate

02.1 BUFFER PAD

Mounting options

Mounting Options

Type	SP-F	SPL-SoftPad	SPL-F	SPL-Soft	SPL-HP	SPG-RF	SPL-W	SPL-HR	SPL-F
Version	With embedded tissue reinforcement	Foam core with closed surface	Mit innen liegendem Lochblech	Buffer pad with damping activity with perforated plate	Special hollow profiles	Robust ramp protection	Angled buffer pad	Semicircular buffer pad	With overlapping perforated plate
Cross section									
Product view									
	bonding, clamp			bolting, riveting, peg*					welding

Version with embedded components can be bolt.

* Version with perforated plate reinforcement

Technical Data for buffer pad

Technical data "Chemicals"

Able to withstand chemicals

secutex is very resistant to most common chemicals. This is demonstrated by the 200-hour test at 20°C. Short-term wetting is completely

insignificant. If secutex is to be exposed to other chemicals, we recommend prior testing.

Hardness Shore A [Tolerance ± 5°]	DIN [%]	Decrease in mechanical values [%]
Formic acid	2 5 10	0-5 5-15 5-15
Ammonia	5	0-5
Boric acid	4	0-5
Bleach	3	0-5
Acetic acid	2 5 10	0-5 5-15 5-15
Tannic acid solution	20	0-5
Sodium chloride solution	10	0-5
Linoleic acid	0-5	
Lactic acid	45	5-15
Caustic soda	10 40	5-15 5-15
Phosphoric acid	25 50	5-15 5-15
Hydrochloric acid		10 0-5
Sulphuric acid	10 25	0-5 5-15
Soda solution		20 5-15
Hydrogen peroxide	10	0-5
Sugar solution	30	0-5

Please note: We will gladly provide you with material samples.

Long service life

secutex yellow with hydrolysis stabiliser can be exposed to all weathers. If secutex is to be

used in safety-related areas, then agreement is required from the manufacturer.

Hardness Shore A [Tolerance ± 5°]	secutex 75°	secutex yellow 55°	secutex yellow 75°	secutex yellow 90°	Norm
Resistant to hydrolysis	No	Yes	Yes	Yes	
Density	1,22 g/cm ³	1,21 g/cm ³	1,22 g/cm ³	1,23 g/cm ³	DIN 53505
Stress					
100% expansion	6,5 N/mm ²	1,15 N/mm ²	3,32 N/mm ²	5,25 N/mm ²	DIN 53504
300 % expansion	9,5 N/mm ²	1,65 N/mm ²	5,25 N/mm ²	8,29 N/mm ²	DIN 53504
Breaking stress	37,5 N/mm ²	19,5 N/mm ²	34,2 N/mm ²	38,5 N/mm ²	DIN 53504
Elongation at break	500 %	640 %	475 %	470 %	DIN 53504
Tear growth resistance	27 N/mm ²	15,8 N/mm ²	35,0 N/mm ²	55,2 N/mm ²	DIN 53515
Rebound elasticity	40 %	61,5 %	40,4 %	30,4 %	DIN 53515
Abrasion	50 mg	21 mg	35 mg	36 mg	DIN 53516
Compression set					
72 h at 23°C + 25% compression	11,40 %	55,1 %	9,1 %	41,6 %	DIN 53517
24 h at 70°C + 25% compression	29,40 %	19,9 %	8,9 %	10,0 %	DIN 53517
Operating temperature*	-40 °C bis 100 °C	-20 °C bis 80 °C	-20 °C bis 80 °C	-20 °C bis 80 °C	DIN 53457
Surface resistance	10 ¹⁰ -10 ¹³	10 ¹⁰ -10 ¹³	10 ¹⁰ -10 ¹³	10 ¹⁰ -10 ¹³	DIN 53482
Volume resistance	10 ¹¹ -10 ¹⁴	10 ¹¹ -10 ¹⁴	10 ¹¹ -10 ¹⁴	10 ¹¹ -10 ¹⁴	DIN 53482
Mould shrinkage	1-2 %	1-2 %	1-2 %		

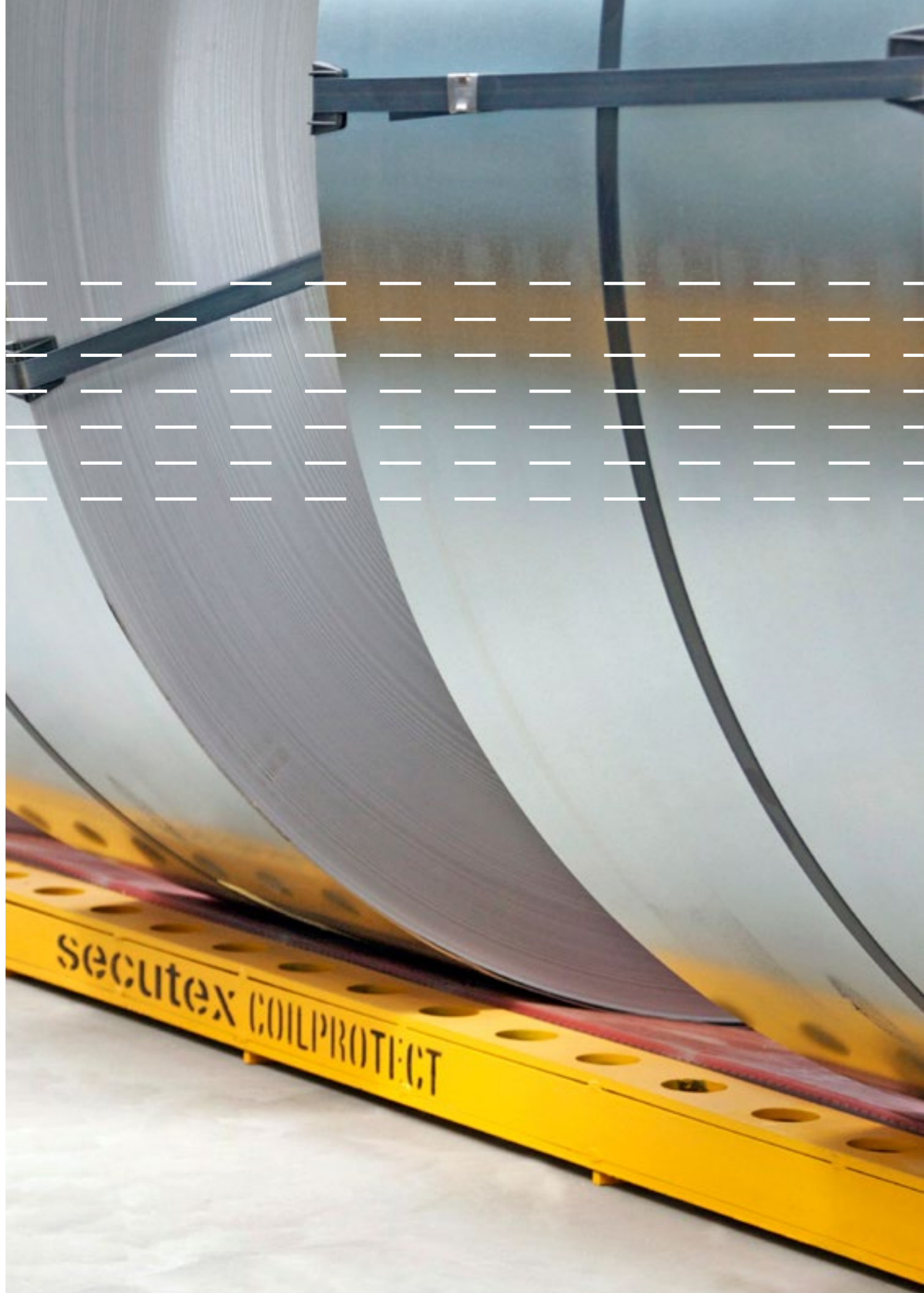
*With the exception of the heat-resistant secutex-Heat buffer pad, decomposition at temperatures above 150 °C, no melting]

Technical data "Loading"

02.2

secutex-Coilprotect

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For careful coil handling and safe storage.

A significant proportion of a product's total costs are attributable to damage resulting from a lack of buffer pad. The principal causes are carelessness, negligence and improper handling. This represents avoidable damage to goods and stock.

secutex Coilprotect is the optimum solution for the safe handling, efficient transport and careful storage of coils and wire coils.

At the processing plants, the coils must be placed in an upright position ready for machining. Serious workplace accidents occur again and again due to coils toppling over.

Of increasing importance is the protection of metal coils produced or intended for further processing. Improper handling and incorrect storage are the most frequent causes of dents in delicate metal sheet coils. These, in turn, can lead to considerable problems during later forming. „Renowned car manufacturers had discovered

that dents can be detected through to the sixth layer. This gives rise to considerable problems and additional costs during the forming process.“ secutex, a polyurethane elastomer with excellent physical and chemical properties, can be moulded into just about any shape:

High structural strength

Compared with other chemical materials, secutex is extremely tear-resistant. The polyurethane can be stretched to 500% of its original length without breaking.

High flexibility

secutex offers considerably greater flexibility in comparison to conventional rubber - even with extreme temperature fluctuations.

Extreme wear and abrasion resistance

secutex is virtually indestructible. In wet wear resistance tests, secutex performed better than many metals.

02.2 COILPROTECT

secutex Coilprotect Altus
secutex Coilprotect Semi



secutex Coil Rack made of steel

Coilprotect Altus

High-profile coil rack

High-profile secutec coil cradle for long-term storage of coils of various sizes. This coil rack can only be loaded with a coil hook or coil tongs.

1	Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
	210	1.225	1.000	1.200-2.400
	210	1.225	1.500	1.200-2.400
	210	1.225	2.000	1.200-2.400
	210	1.225	2.500	1.200-2.400
	210	1.225	3.000	1.200-2.400

Coilprotect Semi

Low-profile coil rack

Low-profile secutec coil cradle for long-term storage of coils of all sizes. The coil cradle may be loaded using coil hook/coil tongs as well as with a forklift truck.

2	Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
	80	675	1.000	800 - 2.000
	80	675	1.500	800 - 2.000
	80	675	2.000	800 - 2.000
	80	675	2.500	800 - 2.000
	80	675	3.000	800 - 2.000

secutex Coilprotect are coil cradles made from sturdy steel and are constructed for the long-term storage of coils. secutex Coilprotect is loaded using coil hooks, coil tongs or forklift trucks.

The advantages

- Particularly robust construction
- Suitable for long-term storage - Protection of the high-value coils through durrch secutex buffer pad mats
- Oil drainage channel and fixing holes - Completely stable
- Complete roll-off protection

Available as an option

- Buffer pad pad made from heat-resistant secutex heat buffer pad
- Coated supporting rods
- Trolley for supporting rods
- End frame for diagonal and vertical storage

02.2 COILPROTECT

secutex coil mat
secutex wire coil mat



For storage

secutex coil mat

Flexible mat made of secutex buffer pad

The light and mobile coil mat was designed for the storage of coils. It is convenient to use. Thus makeshift storage can be set up rapidly and flexibly or existing storage can be expanded in the event of bottlenecks.

The advantages

- Easily positionable by hand
- Virtually indestructible, as it is moulded out of solid secutex
- Oil- and grease-resistant

Available as an option

- Carrying handle and oil drainage channel
- Surface made from heat-resistant secutex heat buffer pad (up to 150 °C)
- Mounting holes
- Sloping head and tail pieces for forklift access.

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
30	400	3.000*	800 - 1.400
43	400	3.000*	1.000-1.600
54	400	3.000*	1.200-1.800
65	500	3.000*	1.200-2.100

secutex coil mat

Mat with oil drip tray

The flexible coil mat with surrounding oil pan was designed for oil-free storage room floors. The coil mat together with the surrounding oil pan are made from a single casting. Oil spillage and the associated slip hazard for employees is thereby prevented.

The advantages

- Easily positionable by hand
- Virtually indestructible, as moulded out of solid secutex
- Oil- and grease-resistant

Available as an option

- Surface made from heat-resistant secutex heat buffer pad (up to 150 °C)
- Mounting holes

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
30	400	3.000*	800 - 1.400
43	400	3.000*	1.000-1.600
54	400	3.000*	1.200-1.800

*Upon request, up to a length of 5,000 mm

secutex wire coil mat

Mat with cross grooves

The proven secutex wire coil mat reliably prevents scratches and dents. The lightweight mat can be positioned quickly. Users especially rate the new roll-off stop. The individual wire rings hook firmly into the transverse grooves, the wire bundles no longer slip and an additional bundling is no longer necessary.

Available as an option

- Oil drainage channel
- Surface made from heat-resistant secutex heat buffer pad (up to 150°C)
- Mounting holes
- Sloping head and tail pieces for forklift access.

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
43	400	3.000*	bis 1600
54	400	3.000*	bis 1800

*Upon request, up to a length of 5,000 mm

Figure: secutex coil mat made from secutex heat; heat-resistant to 140 °C

02.2 COILPROTECT

secutex floor plates
secutex turning mat

Slip-resistant and protective underlays

secutex floor plates

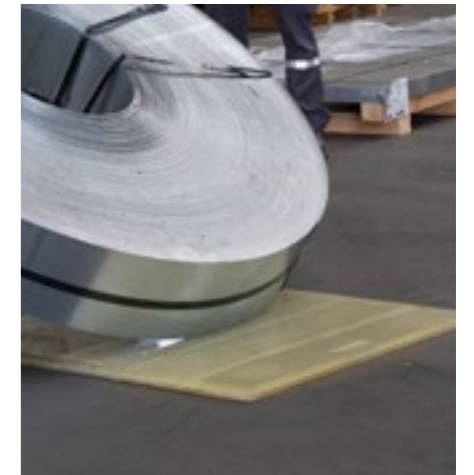
Slip-resistant and protective

Often freshly-wound coils are temporarily stored on cardboard or felt. With oily coils, the cardboard or felt absorb the oil and must be disposed of at expense as hazardous waste.

secutex floor plates (right) can be rapidly cleaned of oil and dirt residues. Even in the case of heavy and long-term use, the extreme cut resistance and pressure resistance prevents the penetration of dirt particles into the surface. Thanks to the surrounding ramp, the floor plate can be driven over without any problem.

Available as an option

- Surface structures (profiling etc.)
- secutex heat (heat-resistant buffer pad)
- Individual warnings and markings



secutex turning mat

Careful and controlled turning

When rolling off a load over the floor, the heavy load can slip uncontrollably on the smooth warehouse floor. There is considerable risk of accidents. Expensive workpieces can be damaged under their own weight and may require time-consuming reprocessing. secutex turning mats (see figure above) are completely slip-resistant. The turning manoeuvre can be performed safely and smoothly.

Available as an option

- Surface structures (profiling etc.)
- secutex heat (heat-resistant buffer pad)
- Individual warnings and markings

02.2 COILPROTECT

Coil handling



Coiler mandrel sheath

Again and again, coils with a larger internal diameter than expected have to be processed on coilers. Here the secutex coiler sheath offers a simple and flexible solution to the problem.

Enlargement of the internal diameter

The handy secutex coiler sheath is simply pushed onto the coil mandrel and enlarges the radius to the required size. The time-consuming assembly of subcomponents is no longer necessary.

Prevention of dents

Thanks to the high friction of the secutex material, the coil cannot slip and, in some cases, the contact pressure can be significantly reduced. The typical impressions in the initial winding layers are prevented and material wastage is significantly reduced.

The secutex material is extremely wear-resistant and, unlike standard rubber, it is also oil-resistant. The insertion tip helps thread the coils.



Slit strip lifting sling

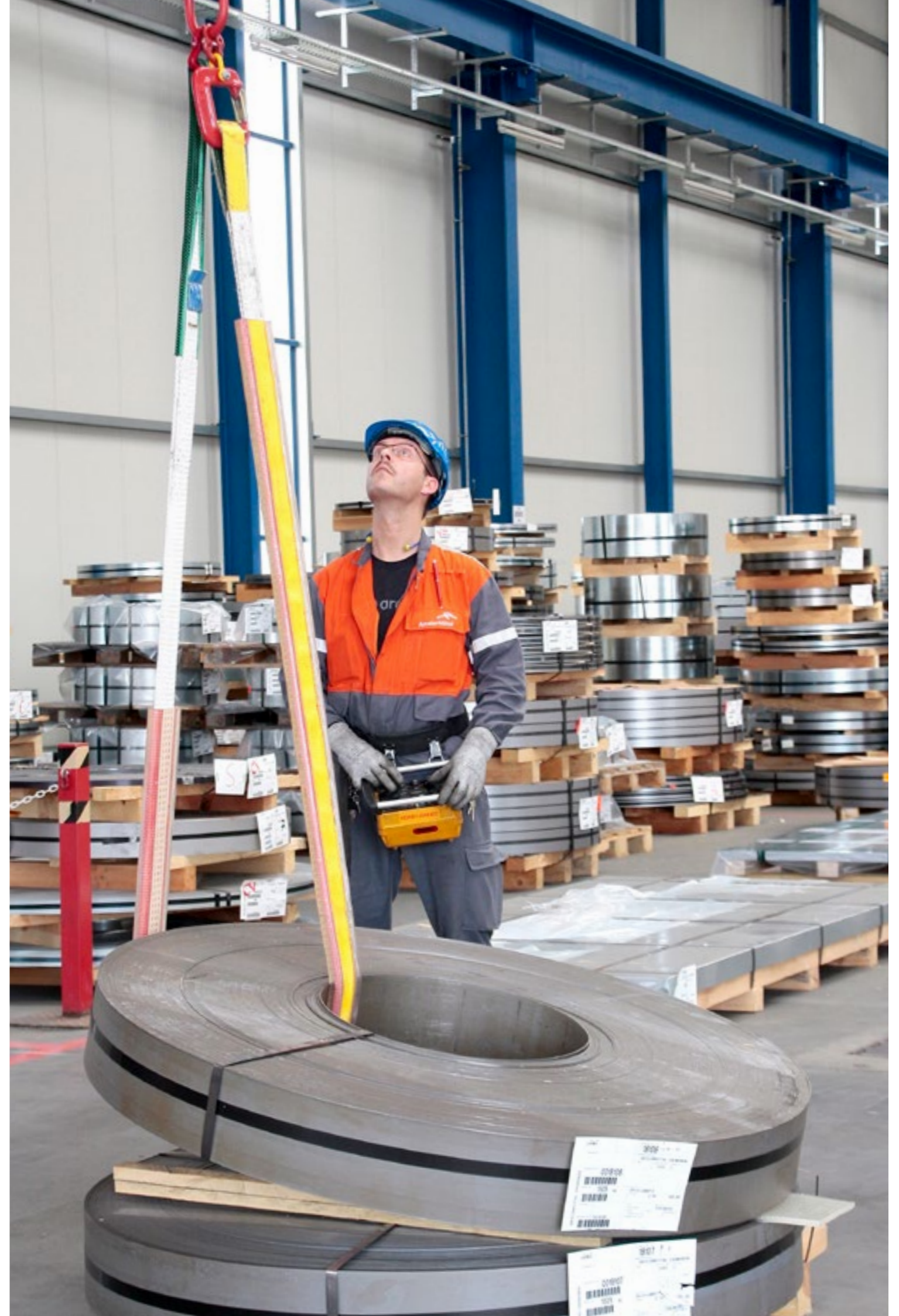
The problem

The erection of stacked coils on the stack is not permitted! Therefore, the first choice for erecting split coil packages delivered lying flat is a coil turner. However, a fixed facility for turning narrow coils is not always available. Therefore, we offer a solution that may be brought into operation, after prior and thorough training of the slinger.

The solution

An end loop of secutex lifting slings for slit strips is flat and can easily be pushed into the gap between the slit strips. The flat end loop is then simply hung over the forged coil hook. The protective tubing is positioned at the sharp edges of the coil. During lifting the lifting sling moves freely within the protective tubing, while the latter remains fixed against the load. Therefore, there is no movement and at the sharp edges and hardly any wear.

The turning of stacked coils on the stack is liable to cause accidents, since the slit strip can slip over the bottom edge during erection. Therefore, as part of the kit you will always receive a slip-resistant secutex turning mat (above) which is simply placed under the tipping edge. A positive side-effect: the windings of the underlying coil are not damaged during the turning procedure.



02.3

secutex fork protection

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secutex-fork protection protects the load and the forks.

secutex forklift truck products offer maximum functionality and safety, which far exceeds DIN EN and German Federal Law requirements. Therefore, with secutex products you reduce your risks and increase your safety. Advantages which pay off in pounds and pence.

- Highly stable
- Workflow continuity assured
- Safe and efficient handling
- High safety margins

Properties of secutex fork protection

1. Slip-resistant

The secutex coating is made from polyurethane. Thanks to the high friction of the secutex coating, the load lies securely on the forks; the danger of the load slipping off is significantly reduced.

2. Noise-reducing

By using the secutex fork protection products, the contact area between the load and the forklift forks is equipped with the damping, flexible secutex material. Therefore, noise cannot be produced in the first place.

3. Wear-resistant

The secutex material is extremely robust and durable. The long service life results in considerable cost reductions.

4. Easily mountable

Avoid time-consuming mounting: secutex fork protection products are easy to attach. In the case of fork protection shoes, they are simply pushed on; fork extensions are secured using bolts and cotter pins.

02.3 FORK PROTECTION

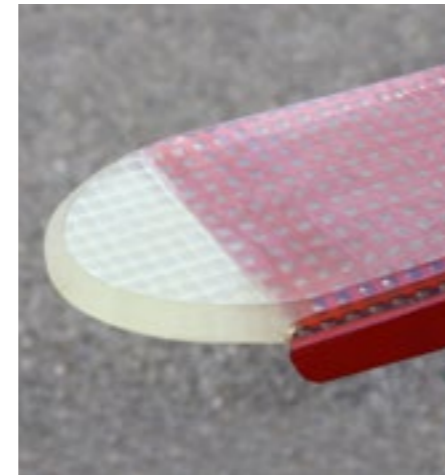
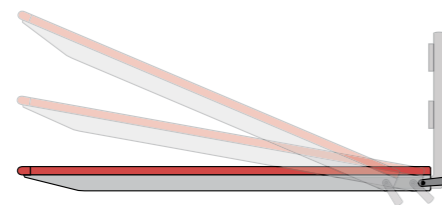
secutex fork protection shoes

secutex fork protection shoes protect your loads.

Besides the coating of the fork prongs, depending on the application, the fork shanks are also equipped with secutex buffer pad. The secutex coating is particularly slip-resistant; therefore the load can hardly slide.

secutex buffer pad is especially wear-resistant, sound-absorbing and damping. Thus long-term use is assured.

Please note: Fork protection shoes have no carrying function.



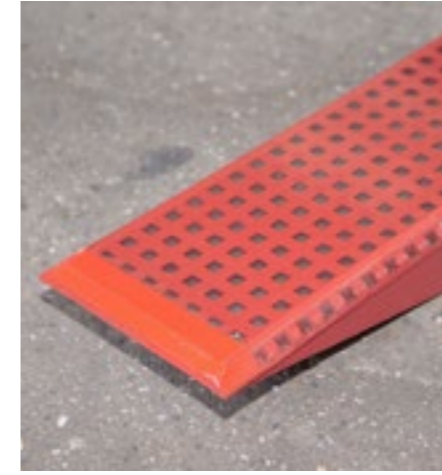
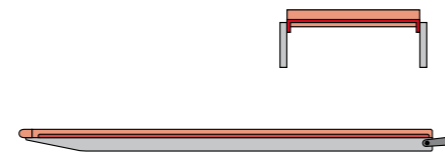
SZ-S1

Standard design with flexible tip

The standard configuration is designed for flexible use. It offers simple and quick manipulation and is designed to be suitable for most applications. Specially developed „Flexotip“ protects load and fork protection.

secutex fork protection shoes are also available in stainless steel; e.g. for the food industry.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-S1	+ 5 - 8	+15 - 20	12



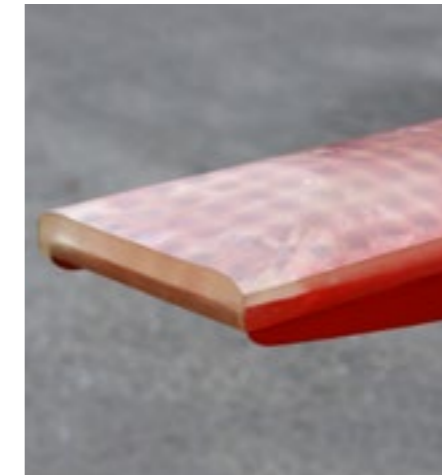
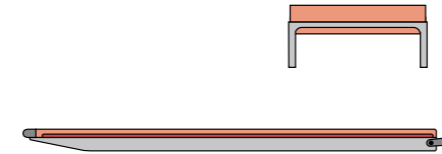
SZ-SSL

Heavy duty design with steel tip

The SZ-SSL is a specially designed fork protection shoe for heavy duty use.

The sturdy steel construction with steel tip is especially constructed for hard continuous use.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-SSL	+5 - 8	+15 - 20	15

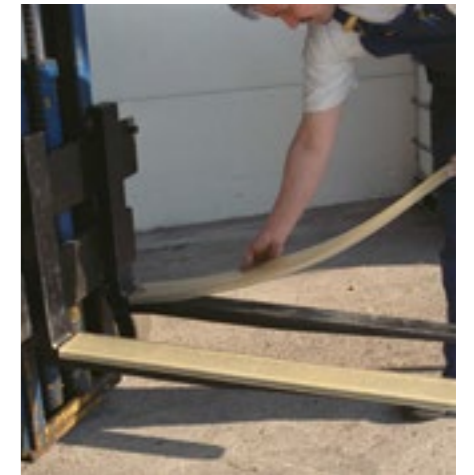
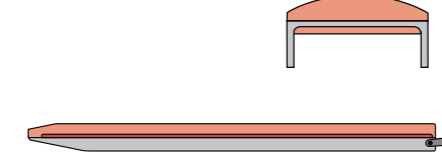


SZ-HR

Fork protection shoe (semicircular design)

Bei diesem Zinkenschutzschuh ist die Prallschutz-Oberfläche halbrund. Damit lassen sich runde Lasten, wie Betonrohre, Drahtgebilde, etc. sicher und schonend transportieren. Die angeschrägte Zinkenspitze erleichtert das Einfahren in die Last.

Type	Internal width [mm]	External width [mm]
SZ-HR	+5 - 8	+15 - 20

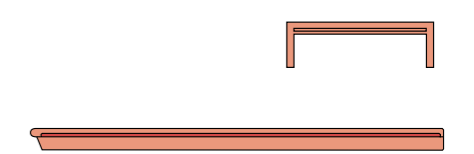


SZ-G

Fork protection shoe with fabric insert

In this fork protection shoe the buffer pad is semicircular. This enables round loads, such as concrete pipes, wire coils etc., to be transported carefully and safely. The tapered fork tip facilitates driving into the load.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-G	+5 - 8	+15 - 20	10



Surface structures

For special applications that will be affected by water, oil or ice, we offer special surfaces. Talk to your expert adviser!

02.3 FORK PROTECTION

secutex fork protection for fork shanks

secutex fork protection for fork shanks

Often the load also rests against the fork shanks during transport. Here too the load and fork shanks have to be protected from damage.

Besides coating of the fork prongs, depending on the application, the fork shanks can also be equipped with secutex shoes or a fixed coating.



SZ-S-2 flat

For careful transport

secutex fork shank protection is used for careful transport of loads. The purpose is to prevent damage to the load during transport.

The fork shank protection is attached to the fork shanks via steel bands and is thus easily exchangeable.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-S-2	+5 - 8	+15 - 20	12



SZ-S-2 hollow profile

Sturdy with high damping activity

secutex fork shank protection with hollow profiles is robustly designed for the protection of the transported goods. The hollow cavities have a high damping effect during impact with the load. Areas of application include, for example, the transport of bricks in the brick industry or concrete pipes in the cement industry.

The fork shank protection is attached to the fork shanks via steel bands and is thus easily exchangeable.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-S-2 HP	+5 - 8	+15 - 20	30



SZ-S-2 soft

For delicate goods

secutex fork shank protection with foam insert is designed for the careful transport of delicate goods. After impact the foam compresses, however reforms its shape once the load is lifted. Areas of application include, for example, the transport of delicate plasterboards and roof tiles etc.

The fork shank protection is attached to the fork shanks via steel bands and is thus easily exchangeable.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-S-2 Soft	+5 - 8	+15 - 20	15 - 30



SZ-S-2 soft special profile

For special loads

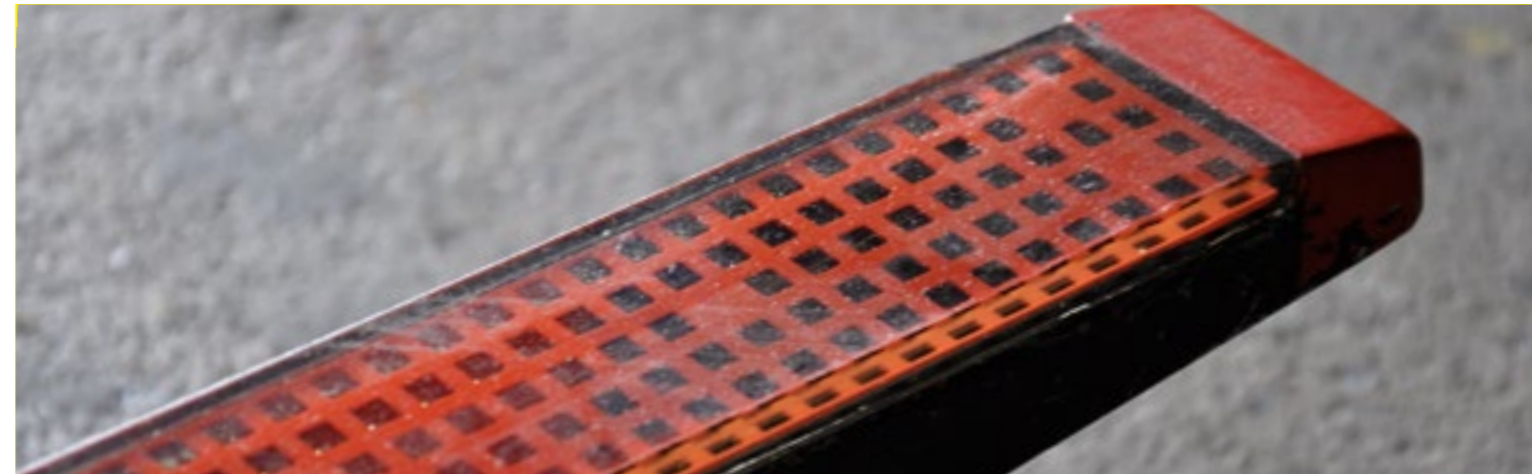
The secutex fork shank protection is a special design with a hollow profile and foam insert. For example, this serves for the transport of delicate drums on EUR-pallets. The impact of the drums is absorbed through the flexible foam insert, the impact of the pallet through the sturdy hollow profile design. Areas of application include, for example, transport in the chemical or glass industries.

The fork shank protection is attached to the fork shanks via steel bands and is thus easily exchangeable.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-S-2 Soft*	+5 - 8	+15 - 20	20

02.3 FORK PROTECTION

secutex fork protection - fixed coating



Fork protection for continuous heavy duty use

secutex fork fixed coating is selected when goods and wares need to be continuously transported carefully and safely.

Besides the coating of the fork prongs, depending on the application, the fork shanks are also equipped with secutex buffer pad. The secutex coating is particularly slip-resistant; therefore the load can hardly slide.

secutex buffer pad is especially wear-resistant, sound-absorbing and damping. Thus long-term use is assured.

SZ-F1

Forks with fixed coating

The configuration offers maximum protection for load and lifting gear and requires little space. secutex fixed coating is inseparably bonded to the fork prongs; the perforated plate prevents it from detaching from the fork prongs. A crossbar at the tip of the fork prong prevents the secutex coating from peeling off.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-F1	---	Zinkenbreite	10 - 12



SZ-F2

Shanks with fixed coating

This configuration offers maximum protection for goods that, for example, overhang the pallet edge. The secutex coating is inseparably bonded to the fork shanks. The perforated plate prevents separation from the fork shank.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-F2	---	Zinkenbreite	10 - 12



SZ-F3

Prongs and shanks with fixed coating

In this configuration the fork prongs and fork shanks are permanently coated with secutex buffer pad.

Type	Internal width [mm]	External width [mm]	Coating [mm]
SZ-F3	---	Zinkenbreite	10 - 12



Surface structures

For special applications that will be affected by water, oil or ice, we offer special surfaces. Talk to your expert adviser!

02.3 FORK PROTECTION

Fork protection - coil Fork protection - pipe module

Fork protection for round loads.

Using secutex coil fork protection you make your forklift even more versatile. After you have transported your coils carefully and safely with it, drive back out of the secutex coil fork protection and continue to use your forklift as usual. Mounting different prongs is not necessary.

secutex coil fork protection is carried by both forks. The secutex coating prevents damage to materials and stops coils slipping off.



SZ-C

Coil fork protection with/without drive-in chamfer

Transport metal coils and wire rings safely and reliably using the secutex coil shoe.

The radius of the bearing surface is matched exactly to the internal diameter of the coil. Thus damage to material is reliably prevented. The coil sits securely thanks to the high friction of the secutex coating. It is almost impossible for the coil to slip off. The drive-in chamfer enables simple driving into the coil.

The coil fork protection is available with and without drive-in chamfer.

Type	Internal coil \varnothing [mm]
SZ-C	400/500/600



SZ-RM

Pipe module fork protection

The pipe module fork protection provides maximum protection for fragile, round loads. It is extremely wear-resistant, very slip-resistant and easily replaceable.

The pipe module fork protection is simply pushed onto the existing mandrel and fastened with the end cap. The individual modules are free-rotating and simply turn away if subjected to unfavourable stress.

Type	Module length [mm]	Wall thickness [mm]
SZ-RM	250	15+20



Figure: secutex fork protection - coil without drive-in chamfer.

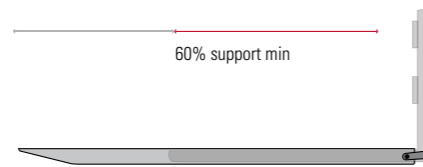
02.3 FORK PROTECTION

Fork protection - fork extension

Extend your forks.

Fork extensions are the ideal solution when loads need to be transported that are longer than the fork prongs. The secutex fork extension is pushed onto the fork prongs and is secured by means of a bolt and cotter pin. The fork extension may be equipped with secutex buffer pad.

Please note: The extension must be supported by at least 60% of the existing fork prong. The carrying capacity of the fork extension is dependent on the particular fork. Please pay attention to the carrying capacity and centre of gravity of the forklift truck.



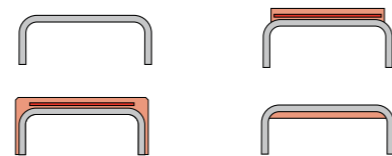
SZ-GVO

Standard design; open at bottom

The SZ-GVO is an ideal extension that is very light. As with all fork protection products, the SZ-GVO can be fitted with secutex buffer pad.

The thickness and width of the fork extension are based on prong width, prong thickness and carrying capacity.

Type	External width [mm]	Coating [mm]
SZ-GVO	ca. + 30	10 - 12

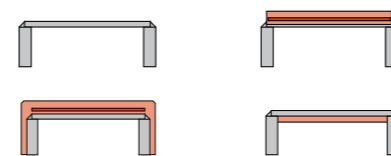


SZ-GVOP

Pro design; open at bottom

The fork extension offer all the advantages of the secutex coating. It is welded and, therefore, especially robust and sturdy, noise-absorbent and slip-resistant. Without tools it is simply pushed onto the prongs and secured with a bolt and cotter pin.

Type	External width [mm]	Coating [mm]
SZ-GVO	ca. + 30	10 - 12

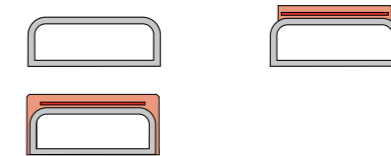


SZ-GVG

Closed design

Fork extensions are the ideal solution where loads need to be transported that are longer than the fork prongs.

Type	External width [mm]	Coating [mm]
SZ-GVO	ca. + 30	10 - 12



Surface structures

For special applications that will be affected by water, oil or ice, we offer special surfaces. Talk to your expert adviser!

02.4

secutex collision protection

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Collision protection for corners and posts	101



Protect your shelving system with secutex collision.

DIN EN 15635

Since 1 August 2009, the European standard, DIN EN 15635 „Application and maintenance of storage equipment“, has been in force.

According to this standard, damaged shelving supports must be replaced immediately.

Together with the German Work Safety Regulations, DIN EN 15635 governs the scope and performance of checks on warehouse facilities.

The warehouse operator is responsible for the safe condition of the existing shelving system.

A typical situation: The forklift pushes the pallet further into the storage space, coming into contact with the shelf support. The shelving support is bent and now needs to be replaced immediately. In the middle of the warehouse a building site results that needs to be driven round, the shelving needs to be cleared, repaired and then restocked. There is considerable disruption to workflow.

Avoid repairs: Protect your investment with secutex collision protection. The flexible secutex profile dampens impact and the solid steel construction of the collision protection prevents the shelving supports from being buckled.

02.4 COLLISION PROTECTION

Typical damage to high-bay warehouses

Typical damage in the high-bay warehouse



Even innocuous-looking damage due to collision to part of the construction, especially damage to posts and supports, can adversely affect the stability of a shelving section or the entire shelving system.

If there are recognisable cracks in welds or the base material then urgent action is required.



Often crash protection is used as a preventative measure on the vulnerable outer shelving supports. However, rigid, steel angle bars only offer slight collision protection.

Experience shows that: Rigid, steel angle bars are permanently deformed by the impact energy of the forklift truck at its normal working speed and the shelving supports to be protected are also damaged.



Rigid steel and secutex buffer pad dampen the collision considerably

secutex collision protection combines the properties of the rigid steel profile with those of the indestructible and absorbing secutex buffer pad.

The flexible secutex profile dampens the collision and the solid steel construction prevents the shelving supports from being buckled.

Figure: secutex SAS-AB collision protection
Rigid steel profile with secutex hollow profile - SPL-HP
Thanks to the hollow cavities the collision protection has an especially high crumple zone.



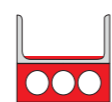

02.4 COLLISION PROTECTION

Collision protection for shelving supports
Collision protection for corners and posts




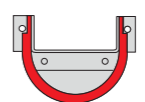

Collision protection for shelving supports

Even slight dents can adversely affect the stability of a high-bay warehouse. The collision protection for shelf supports protects against damage caused by frontal impact. The hollow cavities in the buffer pad profile dampen the collision energy, the solid steel profile on the inside prevents bending of the shelving supports.

Type	Height [mm]	Plan view
SAS-AB	1.000	
SAS-B	1.000	

Crash guards for corners and posts

The crash guard is bolted to the floor and serves as collision protection, for example, on shelves, high-speed doors, etc. The surrounding buffer pad band absorbs the impact energy of the forklift or pallet truck. This provides higher service lives in comparison to conventional steel angle bars.

Type	Height [mm]	Plan view
SAS-E	300 400	
SAS-D	300	
SAS-C	400	

Avoid repairs by using se-cutex collision protection

Special sizes and configurations

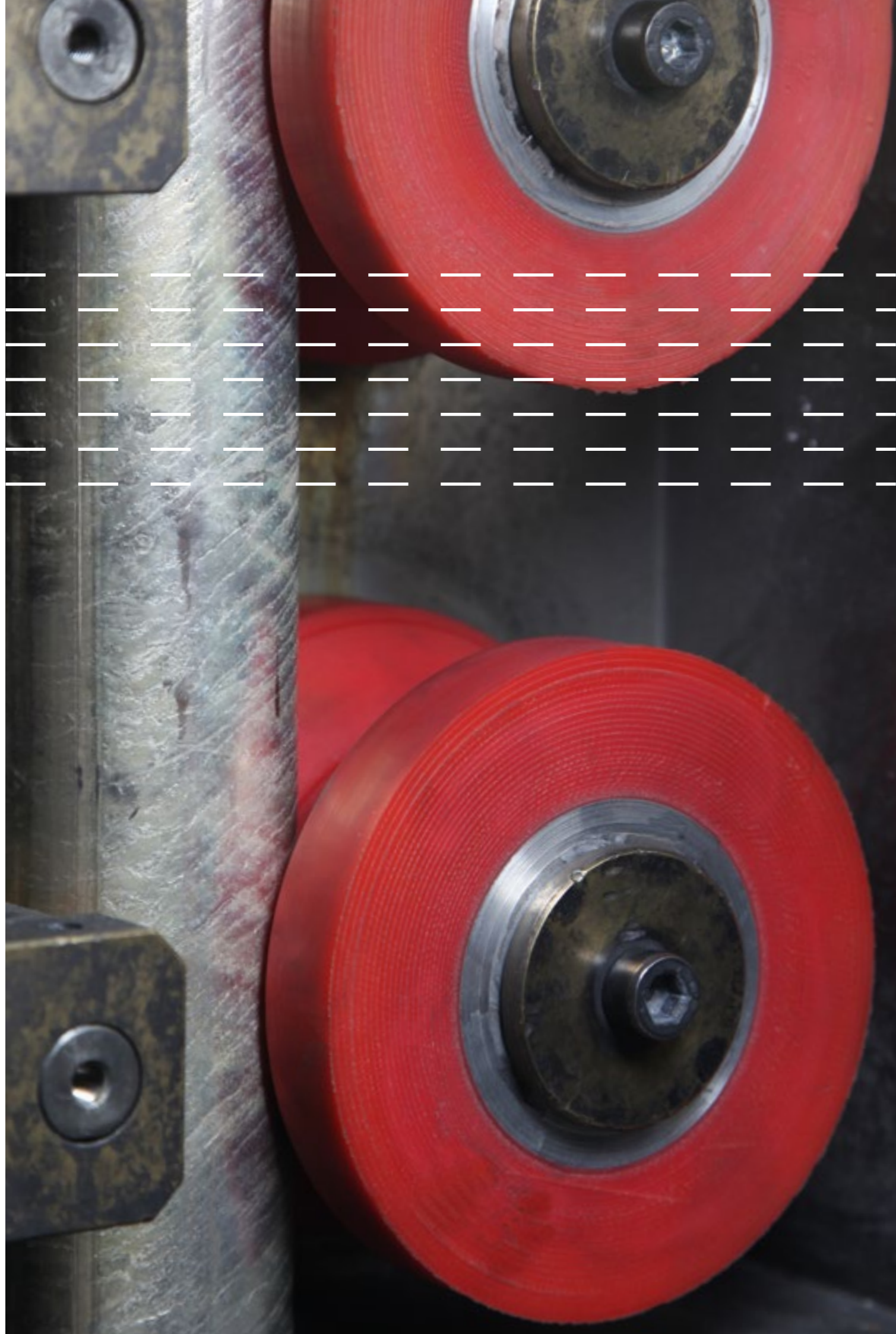
The sizes and configurations indicated can be changed at the customer's request. Talk to your expert adviser!

02.5

secutex-securoll

secutex-securoll 102

Rollers with exchangeable core 106



secutex securoll **Innovative coating for cylinders and rollers.**

With securoll secutex offers a specially developed coating for cylinders and rolls, which is cast in form or applied directly onto the roller core. During product development the vast experience of secutex with all types of coatings was introduced.

secutex supplies a wide selection of securoll for almost any application. Material hardnesses of 55°-90° Shore are supplied. The innovative process ensures high precision in the coating with very low tolerances as well as optimum and long-term bonding between the cylinder/roller core and the securoll material. This ensures that the securoll-coated cylinders and rollers have a high degree of mechanical strength and wear resistance.

What does securoll offer?

- High abrasion resistance
- Different Shore hardnesses
- Temperature resistance
- Low tolerances
- Different surfaces
- Special forms

Coated cylinder and rollers:

- Noise-reducing
- Protects materials
- Long service life
- Resistant to hydrolysis

02.5 SECUROLL

Technical specifications Rollers
with replaceable core

The special coating for
rollers and cylinders.

High flexibility

secutex securoll offers considerably greater flexibility in comparison to conventional rubber. The material remains elastic even during extreme temperature fluctuations.

Structural strength

secutex securoll offers extreme tear resistance in comparison with other chemical materials. This enables the secutex material to be stretched to 500% of its original length without tearing.

Oil resistance

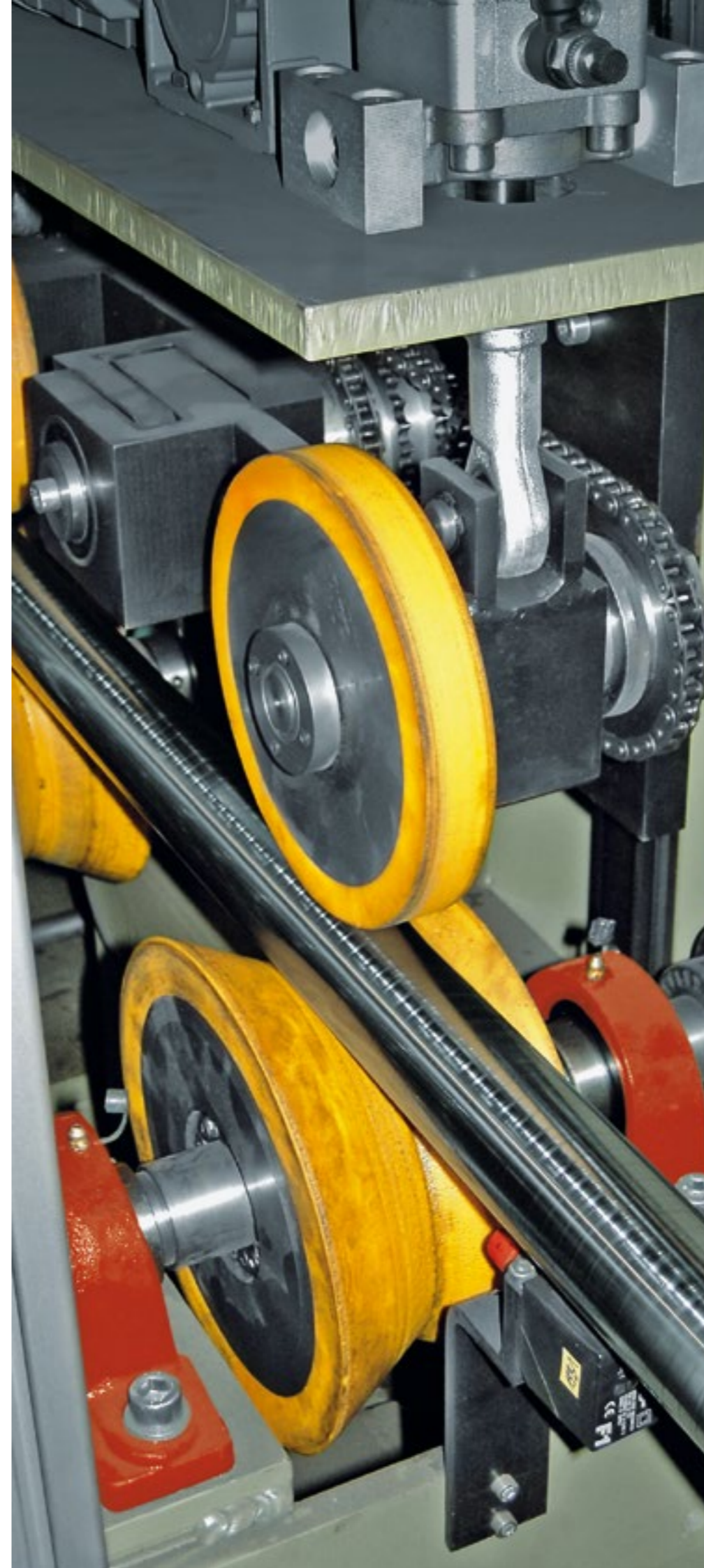
secutex securoll is impervious to most common oils.

Extreme wear resistance

secutex is virtually indestructible. In wet wear resistance tests securoll is better than some metals.

Technical specifications

Surfaces	Smooth	Rough	Slotted	
Coating hardness	55° Shore A	75° Shore A	90° Shore A	
Inserts	Without insert	With perforated plate		
Coating shape	Cylindrical	Convex	Conical	As indicated by customer
Dimensions	Length: 1800 mm	ø: 350 mm	Thickness: from 2 mm	Special sizes on request
Roller/cylinder core	Available on request			



secutex rollers with exchangeable core

The securoll rolls have an easily-assembled, exchangeable steel core consisting of two side plates and the required central axis.

The exchangeable cores are cast separately from the extremely wear-resistant and tear-resistant secutex material. The two side plates and the central axis are put together with the secutex exchangeable core and bolted together.

We can provide any size and any shape without any problems. In the unique mould produced, required secutex replacement cores can also be produced within a very short time.

02.6

secutex solutions

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secuGrip	114

02.6 SECUTEX SOLUTIONS

Solutions for steel bars

secutex conveyor screw

For pipes and steel bars

In the metal industry, conveyors screws are favoured as simple machine components for timed conveying of pipes and steel bars. Control of the conveying process is very simple. There are hardly any moving parts that could break down during continuous heavy use.

Preserves the surface

secutex conveyor screws have an axis made of steel or steel pipe and are cast from the extremely wear- and tear-resistant secutex buffer pad. secutex buffer pad protects the surfaces of the long materials; thus scratches are avoided. The conveyor screws cast from secutex buffer pad are significantly cheaper than those milled from engineering plastics. In addition, the excellent service lives improve the cost advantage.

Rapid recasting

We can provide any size and any length. In the unique mould produced, required conveyor screw can also be produced within a very short time.



For steel bars



secutex wipers

Wipers for steel bars

In the production of pipes and steel bars, so-called wipers are used for cleaning. The wipers have a round or rectangular outer profile and an inner profile that matches the shape of the object to be cleaned. Normally, several wipers are mounted in series, whereby the pass-through openings are smaller than the profile. The bar is pushed through the elastomer plates at high velocity, and the rubbery material strips the surface free from grease and cleaning fluid residues.

It is the edge that counts!

Just as with a car window wiper, it is the edge that counts. Normally, the wipers are stamped from sheet goods. During stamping, the elastomer becomes distorted; the inner edge is therefore not dimensionally stable and is at an angle. Only part of the edge wipes emulsions from the surfaces depends on the profiles. This edge is rapidly worn down; the cleaning action is then unsatisfactory.

Streak-free cleaning

In collaboration with a renowned pipe manufacturer, secutex has developed a new wiper whose optimised wiper edge cleans a rough surface without leaving streaks. The secutex wipers are cast from moulds; the stamping process is done away with. The edge is perfectly formed and lies in complete contact with the pipes and steel bars passing through it.

Long service life

Users report the excellent durability of the secutex wipers; premature wear and material decomposition have not been observed. Thanks to the excellent service life, set-up times and downtimes could be significantly reduced.

For every size

secutex wipers can be produced in all required thicknesses and diameters.

Special sizes and configurations

Suitable sizes and configurations can be delivered at the customer's request. Talk to your expert adviser!

02.6 SECUTEX SOLUTIONS

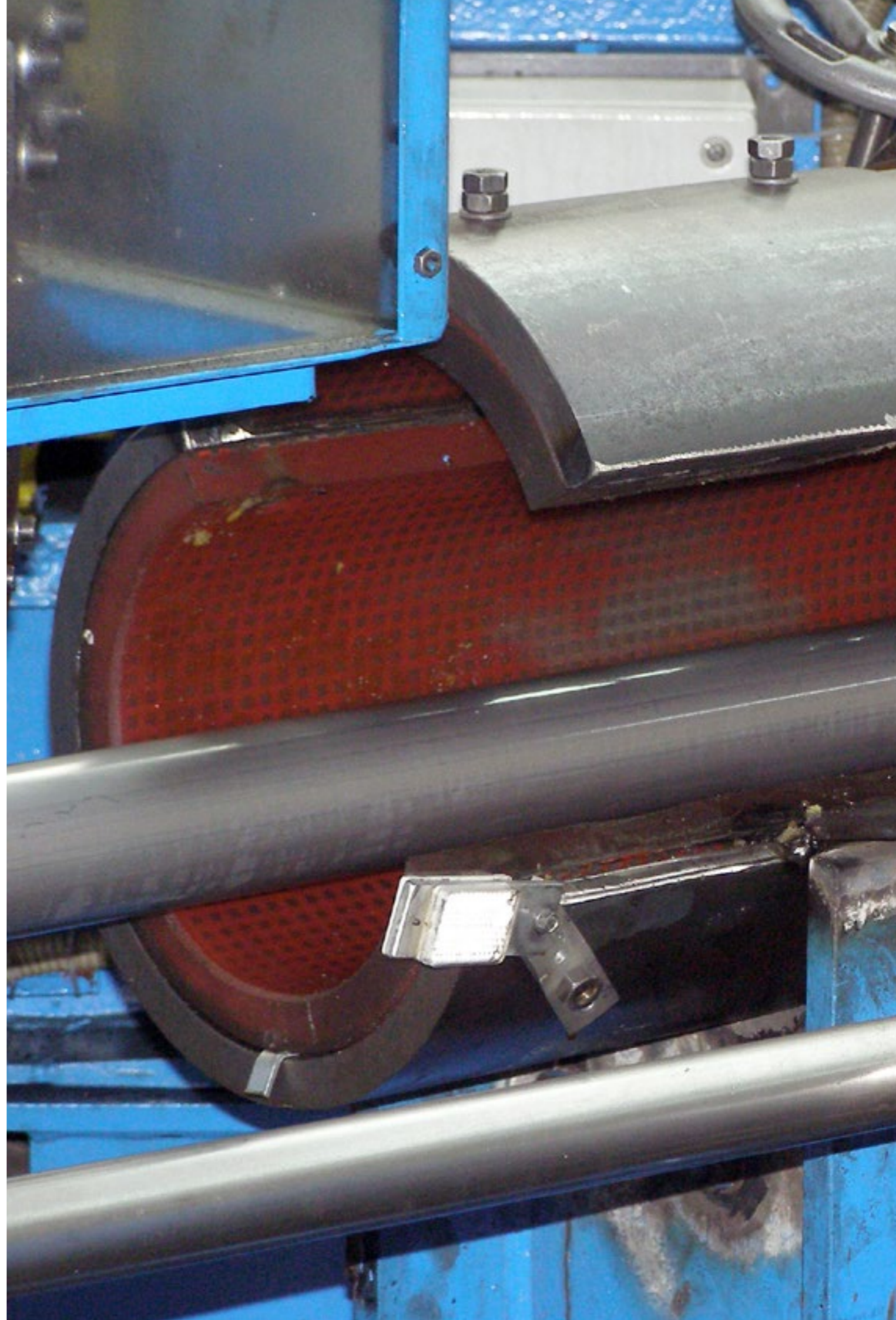
Special products

Coating for pipe raising systems

The noise levels in pipe and rod raising systems can be very high. A chute lined with secutex pipe modules ensures that noise levels are reduced and that surfaces are protected.

The secutex material with inset perforated plates is particularly wear-resistant and cushions the movement of pipes and rods very well.

The cast sections are attached using drilled attachment holes. Segment sizes and joins are manufactured according to client requests.



Snowplough blades

For next winter

secutex buffer pad can be stretched to 500% of its original length without breaking. In comparison to conventional snowplough blades made from rubber, secutex buffer pad offers considerably higher

flexibility, even during extreme temperature fluctuations. We can provide any size and any length without any problem. In the unique mould produced, the required elements can also be produced within a very short time.

02.6 SECUTEX-LÖSUNGEN

Special products
secuGrip

secuGrip 90
secuGrip 30

secugrip 90

Extreme wear-resistance,
high friction coefficient

The thin coating is extremely wear-resistant and protects wood, concrete and other backing material against abrasion and wear. "secugrip 90" can be in thickness layers up to 2 mm, and its resistance to environmental influences, UV rays, acids and bases is incredible for a plastic.

Extraordinarily high friction coefficient

The drop-shaped surface of "secugrip 90" has a high friction coefficient.

This material can be used anywhere where a good friction coefficient is required along with good wear characteristics.



secugrip 30

Extremely high friction coefficient

"secugrip 30" is foam rubber-soft and reliably protects goods being transported. Whether rotor blades or rolls of foil, this is the material of choice anywhere sensitive surfaces must be protected.

Extraordinarily high friction coefficient

"secugrip 30" has an extremely high friction coefficient in comparison with most dry materials, a claim which can be proven on your own test stand. "secugrip 30" can be used anywhere where a good friction coefficient is important.

