Roller shutter systems

MADE FROM STEEL AND ALUMINIUM – INNOVATIVE, RELIABLE, ECONOMICAL

ROLLER SHUTTERS
ROLLER GRILLES
HIGH-SPEED SCREEN DOORS

WE OPEN THE DOORS FOR PROGRESS
Impressive hall openings

STRONG, ARCHITECTURALLY CONVINCING
TECHNICALLY FLAWLESS, HIGHLY VERSATILE

Roller shutters
ThermoTeck
Heat insulated, with micro-profiled surface.

Roller shutters
ThermoTeck “easy”
Innovative door design for standard application – approx. 40% quicker installation.

Roller grilles
Highly transparent and air-permeable.

High-speed roller shutters
ThermoTeck
For fast opening and closing.

High-speed screen doors
With break-away protection.

Teckentrup roller shutters – a tailor-made door concept for economical solutions

The well-developed door system is characterized by its cost-effectiveness, robustness and simple design. Due to the space-saving roller technology and the hard-wearing roller door curtain, Teckentrup roller shutters are particularly suitable for use in high and especially wide door openings which have to withstand harsh conditions. Roller grilles are used when high transparency, theft protection and also good ventilation is needed. High-speed screen doors allow fast drive through, e.g. of forklifts and also helps reduce energy loss.

State-of-the-art drives and control systems are available for all door types.

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Future-proof developments and the continuous improvement of existing systems are standard procedure at Teckentrup. Innovative solutions and creative technologies allow us to achieve groundbreaking advances in door production. Excellent examples are the problem areas of fire, smoke, noise protection, security and heat insulation. First class materials, precise processing and continuous quality checks in accordance with DIN ISO 9001 guarantee perfect safety, reliability and long service life. This ensures that every Teckentrup product is a worthwhile investment.

All Teckentrup roller shutters and roller grilles comply with the safety requirements of current European standards.

Teckentrup roller shutters meet all the safety requirements and provisions of EN 13241-1
- Mechanical aspects
- Safety in use
- Heat insulation
- Sound insulation
- Watertightness
- Resistance to wind
Stable and flexible
Teckentrup roller shutters are suitable for most building applications. The flexible door design with an extremely stable, double-skinned profile allows precise-fit solutions for a variety of door openings. In particular the innovative, micro-profiled special profile ThermoTeck impresses with its high functionality and appearance.

Unique assembly benefits
Using creative ideas Teckentrup frequently develop technologies which perfect their products and installations: e.g. the new “easy” roller shutter design. In comparison to conventional door systems, installation times of up to 40% can be saved. Even one-person installation is possible.

Comfortable operation
Powerful drive and control systems are optimally matched together, which can be assembled and programmed easily. Modern operating elements ensure additional ease of operation.

Individual solutions
For difficult installation situations or special requirements, we develop in collaboration with our partners individual, customized solutions.
For any architectural style
This simple, robust and flexible design featuring a roller curtain which winds up very tightly, is suitable for use in a wide range of applications, whether as an outside roller shutter or installed inside. Teckentrup roller shutters are suitable for most constructional applications.
...IN INDUSTRIAL AND COMMERCIAL BUILDINGS

Particularly suited for agricultural holdings.

Special solution for kiosks at a football stadium.

As an outer roller in a hazardous substances container.

Doors for very large openings of up to 18 metres.

As an outer roller in an underground garage – the optimum solution when space is restricted.

Roller grilles in retail businesses for shop security.
Roller Shutter ThermoTeck

- **SPECIAL ROLLER SECTIONS**
- **IN LIGHTWEIGHT STEEL CONSTRUCTION**
- **GALVANIZED FINISH AND HEAT INSULATED**

**High-grade steel**
Galvanized finish with transparent protective top coat.
- Modern high-tech optics
- More economical than coated doors
- High load resistance and durability

Optional double-sided coil coating, see page 13.

**Innovative micro-sections**
In attractive optical design, highly robust and resistant to wear.

**Special section contour**
Made of one continuous length of material for even greater strength and quiet operation.

**Double-skinned section**
With high strength PU rigid foam core for high robustness and heat insulation at the same time.

**Tightly rolled shutter curtain**
Owing to the section geometry, the individual sections are wound up very tightly. Due to this, the surface is protected and less headroom is required than in conventional door systems.

**Extremely durable thanks to the multi-layer design**

Profile ThermoTeck with glazing.
Profile ThermoTeck with ventilation grille.
Flexible sections
Stress, the pressure of deadlines or simple human carelessness – in the “heat of the moment” collisions between transport equipment and roller shutters can easily occur. With Teckentrup doors, however, such accidents seldom end in disaster as the flexible roller door sections can yield and spring back. And since the door sections are very robust, the sections seldom are damaged or have to be replaced.

Door opening in an industrial premises.
Roller Shutter ThermoTeck “easy”

The New and Innovative Roller Shutter Design for Standard Applications

Huge savings by reducing the installation time by approx. 40%! Can be installed by just 1 person!

Easy and trouble-free installation!
- Compact design
- Save up to 40% installation time
- Space-saving console for all door sizes
- Consoles connected to guide rails – no time-consuming measuring and marking required (Teckentrup property rights)
- Winding shaft position determined automatically
- High-strength connection system between the shutter curtain and the shaft (Teckentrup property rights)

2 versions available

Roller shutter profile ThermoTeck “easy”
Roller grille TG-X “easy”
Simple, practical and safe
The new Teckentrup roller shutter system “easy” is characterized by its simple and robust design. Individual components have been intelligently designed and perfectly harmonized to deliver real added value.

Time-consuming measuring tasks, e.g. for attaching the console and determining the winding shaft position, are a thing of the past. Furthermore, installation is facilitated by the pre-wired control unit and drive.

The required installation time can be reduced by up to 40% in comparison to conventional roller shutter systems.

The roller shutter curtain is pre-assembled on the winding shaft and can be simply fitted into the console. The space-saving console is bolted to the runner rail – no time-consuming measuring and marking required.

The pre-wired control unit is integrated in the reliable brand-name drive. Comfortable shutter control occurs via a plug-in, pre-wired button with 3 options (open-stop-close).

Pre-punched runner rails facilitate installation. The floor seal is integrated in the bottom profile and ensures a harmonious appearance inside and outside.

Durable and high-strength connection system between the shutter curtain and the shaft (Teckentrup property rights). The octagonal winding shaft, incl. shaft journal, is fully galvanized.
Roller door sections...

...FUNCTIONAL AND STYLISH

Insulated sections – provide effective heat insulation and resistance to high wind pressure

Profile ThermoTeck with protective top coat or with double-skinned coil coating.
Profile ThermoTeck with glazing.
Profile ThermoTeck with ventilation grille.

The alternative – the aluminium profile 4020

Stucco design: Robust aluminium surface for uncoated sections

4020.
Profile 4020 with glazing.
Profile 4020 stucco design.
Profile 4020 stucco design with glazing.

Optimum light solutions
Glazing not only lets light into the hall, but is also a stylish design element. All double-skinned Teckentrup sections are also available with transparent, insulated and shock-resistant polycarbonate double glazing.
Designed with colour

MAKE INDIVIDUALITY VISIBLE

All the colours of the rainbow
The optical impression given by the doors of production halls is of great importance and can even be seen as the perfect medium for communicating a company’s corporate design. The wide range of colours available from Teckentrup allows for a whole host of different door designs. Planning engineers have unlimited resources to draw on, enabling them to create a design that meets your individual style requirements.

Teckentrup roller shutters ThermoTeck are galvanized with a transparent protective film, as well as coil coated on both sides in a wide range of colours:

4 standard colours following RAL

- RAL 8014 Sepia brown
- RAL 9002 Grey white
- RAL 9006 White aluminium
- RAL 9016 Traffic white

Optional preferred colours in RAL

- RAL 3000 Flame red
- RAL 5010 Gentian blue
- RAL 6005 Moss green
- RAL 7016 Anthracite grey
  (available from 08/2014)
- RAL 9007 Grey aluminium

Other colours according to RAL and NCS

All colour images may differ from actual product. Simply ask your authorized dealer for more details.

Roller shutter ThermoTeck with glazing and upper casing.

The profile 4020 can also be designed powder-coated with a RAL colour of your choice.
Roller grilles

GOOD VENTILATION, GOOD VISIBILITY
AND OPTIMUM LIGHT PERMEABILITY

Tekentrup roller grilles are available in different designs, providing optimum ventilation, security and good visibility.

These grilles are recommended for use in shopping arcades for stores with large shop fronts, underground garages and indoor car parks.

All of the roller grilles come with an automatic anti-lift device.

Roller grilles in diamond design
TG-X (aluminium)

Roller grilles in honeycomb design
TG-A (aluminium), see figure
TG-S (steel)
TG-E (stainless steel)

Roller grilles TG-X (aluminium).
... AND STILL SECURELY PROTECTED

Complying with wide-ranging requirements, Teckentrup roller shutters help to keep out litter as well as uninvited visitors. At the same time, they provide good visibility and optimum ventilation.

Roller grille TG·A in an underground car park.

Vehicle fleet protection.

Roller grille TG·X as protection and separator grille in a shopping centre.

Roller grilles protect entrances to shopping centres.
If necessary, different types of threshold-free side doors are available for access for persons to the building/hall. Regardless of whether you opt for a fixed or rotating side element, security and functionality are always our top priority.
Curtain cladding
If there is no interior space available, roller shutters are externally mounted. The roller enclosures are available in different materials and colours.

Sound decoupling
If residential housing or offices are located adjacent to an underground garage, the specified sound insulation of 30 or 35 dB must be ensured. The door system is then decoupled from the main building structure. For this purpose Teckentrup provides tried and tested solutions.

Pressure shaft
For extremely wide doors the additional shaft minimizes the deflection of the profile and ensures an optimum seal around the lintel area.

Inclined bottom seal retainer
Roller grilles receive an individually adapted bottom seal retainer to compensate for floors with an incline.
Uninterrupted operation
The ThermoTeck high-speed roller door from Teckentrup is intended for continuous operation in industrial applications. The high quality materials used and the standard safety features guarantee uninterrupted traffic flow. Thanks to high-speed opening and closing, as well as insulated ThermoTeck sections, heat loss from the hall is reduced, thus saving energy.

Powerful system
- High-power drive for continuous use.
- Frequency converter control with ‘soft’ start/stop functions. Protects the material and guarantees long service life of the door.
- Greater protection against personal injury or material damage thanks to standard, integrated light barriers and safety edge.

- Average opening speed of up to 550 mm/sec.
- With max. dimensions of 6000 x 8000 mm.
Secure protection against intrusion

Burglary-resistant security
Stable and robust components as well as additional mechanical locking elements provide effective protection against break-ins.

Sliding bolt
Optional mechanical lock which is electrically operated on doors with a drive.

Lockable bottom profile
Lockable bottom profiles ensure additional protection against theft; this is electrically operated on doors with a drive.
ExcElenT DeSigN FeAt ureS

Reliable technology

Wind hooks guarantee safety even in high wind loads.

Direct mount drive TAR with integrated anti-drop drive.

The anti-drop drive prevents the door curtain from falling unexpectedly.

Quickly and easily installed.

As well as the installation manual, individual, order-relevant assembly drawings are included for each roller door.

Compactly packaged, the roller shutter curtain can easily be loaded onto the pre-assembled brackets using a forklift.
ENSURE LONG-LIFE FUNCTION

- Doubly secured winding shaft
  The intelligent construction with the fixed interior circular blanks ensures that the weld seams of the exterior circular blanks are put under less stress. This in turn ensures that the door curtain can be rolled up and down safely.

- Guide rail
  Functional and stable guide rail system with plastic slide profile to improve running and sliding properties.

- End profile
  The end profile with a seal made from a rot-proof, elastic and anti-freeze EPDM rubber profile, helps to level out unevenness in the floor and protects against cold and moisture.

- Safety edge mechanism
  Stops the door automatically when it encounters an obstacle.
Robust and Reliable

Powerful drive technology

Depending on the requirements different solutions are available to choose from for most construction applications.

Direct mount drive
Compact and assembly-friendly. With integrated, maintenance free anti-drop drive. Optionally available with emergency hand crank...

...or emergency hand chain.

Tubular motor
Suitable for small doors, limited space and with lower loads. (Emergency operation e.g. via the winding pole).
Innovative control systems

HIGH PERFORMANCE WITH MICROPROCESSOR TECHNOLOGY

Depending on the area of application different systems assume the control of the door system.

Comfort control unit CS 310 (Dead man or pulse)
Microprocessor control with absolute transmitter evaluation. Simple, secure programming using the LED module or the 3 button navigation system on the LCD monitor with multi-language clear text display, optional red-green light to show door status, with visual warning messages (can be used in e.g. underground garages, car repair shops).

Frequency converter CS 310 pulse control unit
With frequency converter control unit, soft start-up and soft stop (application: e.g. high-speed roller shutters).

Easy programming carried out by trained personnel.

The controls are factory prepared and are ready to plug in.

Mobile programming unit with LCD monitor.

Programming should only be carried out by an authorised technician.

Light barriers
To further increase safety, an additional light barrier can be installed which will stop the door automatically. Under certain conditions the use of such a light barrier is required by law.

The roller grille doors have additional light barriers in the lintel area to prevent personal injury.
Modern operating elements provide additional comfort for electrically controlled door systems. The door is simply operated via a handheld transmitter. Triggering can also occur via a safety photocell, induction loops, radar motion detectors, etc.

**Comfortable Operation**

**INDIVIDUAL EQUIPMENT**

Attractive radio-controlled number code lock
Convenient operation of up to 3 doors by entering personal numeric passwords which prevent unauthorized access. Simple, wireless wall attachment.

Column
Made of anodized aluminium with an integrated key-operated switch.
Numerous accessories facilitate daily tasks due to convenient operation and provide additional safety.

Radio-controlled receiver

- Internal radio controlled receiver for CS 300 or CS 400, pluggable
- External radio controlled receiver for CS 300 or CS 400, pre-wired with plug and cord

Radar motion sensor

- Radar motion sensor with programming device

Push buttons

- Emergency stop switch
- Push buttons “Up-Stop-Down”
- Push buttons “Up – Emergency Stop – Down”
- Lockable push buttons “Up – Emergency Stop – Down”

Photocells

- Lockable push buttons “Up-Stop-Down”
- One-way photocell
- Reflection photocell
High-Speed Doors

**F A S T, S A F E A N D E N E R G Y S A V I N G**

Teckentrup high-speed doors are made for robust, permanent indoor and outdoor use. They guarantee an uninterrupted flow of traffic and reduce unwelcome heat loss to a minimum during cold winter months. They also keep dirt out and prevent drafts. In combination with Teckentrup sectional doors and roller shutters they are the ideal day/night barrier for outdoor areas. The numerous Teckentrup doors are characterized by their high-quality components and well-conceived design:
- Self-supporting, hot dip galvanized lateral parts.
- High-tensile, fabric-reinforced roller shutter curtain with PVC vision panel.
- Curtain tensioning with the aid of a special anti crash edge.
- Special brush strips form the seal between lateral parts and curtain.
- High performance worm gear motor, with digital end limit switches as standard.

**Colours to catch the eye**
Many distinct standard colours for the curtain are available to choose from. These vibrant colours are attractive, easily seen and increase security. Other colours are available on request.

**Standard colours following RAL:**

- RAL 2004 Orange
- RAL 1001 Beige
- RAL 1003 Signal yellow
- RAL 1018 Zinc yellow
- RAL 3002 Carmine red
- RAL 5010 Gentian blue
- RAL 5012 Light blue
- RAL 6024 Traffic green
- RAL 7038 Agate grey
- RAL 9005 Jet black
- RAL 9010 Pure white
The integrated anti crash system increases the door’s safety and efficiency.
• Protects people and objects.
• Prevents damages and downtimes.
• Ensures rapid return to normal operation.
• Ensures crashes are without serious consequences.

...WITH ANTI CRASH SYSTEM

If there is a collision between a vehicle and the anti crash edge, the retaining mechanism automatically opens.

The end pieces are manually engaged in the guide. They remain unstressed and therefore have a very long service life.

The crash end pieces automatically recoil in the anti-crash edge – and the curtain remains intact.
## Types of doors and technical data

<table>
<thead>
<tr>
<th>Roller shutters/ roller grilles</th>
<th>ThermoTeck</th>
<th>4020</th>
<th>TG-S</th>
<th>TG-A</th>
<th>TG-V</th>
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<tr>
<td>Others upon request</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
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</tr>
</tbody>
</table>

■ = standard  ▲ = optional
## High-speed screen doors

<table>
<thead>
<tr>
<th></th>
<th>SLT 07</th>
<th>SLT 07 FU</th>
<th>SLT 08</th>
<th>SLT 08 FU</th>
<th>SLT 25 FU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Door sizes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max width in mm</td>
<td>4600</td>
<td>4600</td>
<td>6000</td>
<td>6000</td>
<td>6000</td>
</tr>
<tr>
<td>Max height in mm</td>
<td>4600</td>
<td>4600</td>
<td>6000</td>
<td>6000</td>
<td>6000</td>
</tr>
<tr>
<td><strong>Opening speed</strong></td>
<td>0,8</td>
<td>1,2 – 1,5</td>
<td>0,8</td>
<td>1,5</td>
<td>1,5 – 2,5</td>
</tr>
<tr>
<td>m/sec</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Closing speed</strong></td>
<td>0,8</td>
<td>0,8</td>
<td>0,8</td>
<td>0,8</td>
<td>0,8</td>
</tr>
<tr>
<td>m/sec</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Usage</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Internal door</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>External door</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Performance characteristics</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Safety equipment in accordance with EN 13241-1</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
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<tr>
<td>Wind class in accordance with EN 12424</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Drive and control unit</strong></td>
<td>CS 300</td>
<td>CS 300 FU</td>
<td>CS 300</td>
<td>CS 300 FU</td>
<td>CS 300 FU</td>
</tr>
<tr>
<td>2 potential-free contacts</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Single phase terminal voltage 400 V*</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Degree of protection IP 54</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Degree of protection IP 65</td>
<td>▲</td>
<td>▲</td>
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</tr>
<tr>
<td>Control using emergency stop switch</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Digital end switch</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td><strong>Emergency opening</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crank (in drive height)</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Crank (from ground level)</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td>Counterbalance technology, manual emergency opening in the event of a power failure.</td>
<td>■</td>
<td>■</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Spring break protection.</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Up to a maximum of 5000 mm clear width</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td><strong>Safety devices</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The door area is monitored by a safety light barrier with reflector.</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>The anti-crash edge is equipped with a self-monitoring contact strip to prevent personal injury.</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Permitted for escape and rescue routes with declaration of conformity.</td>
<td>—</td>
<td>▲</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

*depending on the size of the door
Our customers come first
Besides guaranteeing innovative, unique developments, first-rate product quality and flexibility during the realization of special technical solutions, we also provide a comprehensive bespoke customer service.

- Individual planning and advice
- On-site support from our field team
- Quick and efficient delivery
- Inspection and maintenance
- Support thanks to product and installation training courses

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Teckentrup was established in 1932 and has since become one of the largest manufacturers of doors and door systems in Europe, with production plants in Verl-Sürenheide (Administrative HQ) and Großzöberitz. The additional 10 subsidiaries in Germany as well as further partners in Europe and overseas create an economic infrastructure that satisfies all the requirements for flexibility and convenience to customers.

From the conceptual stage to innovation, the design stage to production, at Teckentrup, everything happens “under one roof”. Motivated and committed employees, the very latest CAD systems and computer-controlled production systems are the keys to a secure future.