

Example: Two-part lift car apron

CONCEPT

Horizontal, telescopic lift car apron consisting of at least one base element and one or two additional elements as required. The elements are 750 mm high and are bevelled on the underneath. Using the enclosed self-tapping screws, the lift car apron is screwed to the floor of the lift car from the front/underneath using additional rear braces.

BENEFITS

- Possibility of using one product for multiple door width intervals
- Save time and money when planning projects
- Can be stockpiled to minimise the risk of interruptions
- Quick reaction to customer demands

DETAILS

HEIGHT 750 mm

WIDTH 750 to max. 2.800 mm

MATERIAL Sheet steel, 1.5 mm

Delivered with rear braces and mounting parts

Special dimensions available on request



CONCEPT

Vertical telescopic lift car apron for use in low shaft pits. In the case of shaft pits that are at least 400 mm deep, the required length of 750 mm can be produced by extending the telescopic apron. The apron is not extended during normal operation and has a height of around 300 mm. The retracted apron sheets are held in place by a magnet. If released or if a power failure occurs, the apron sheets move to the required apron height automatically. The telescopic apron must then be put back in place manually by trained personnel. Thereafter, the system can be used again in normal operation. To ensure that the system functions correctly, the shaft door emergency release devices must be fitted with an additional door contact to be provided by the customer. These measures must be agreed with the responsible inspection authority.

BENEFITS

- High level of safety thanks to automatic deployment when the shaft door emergency release device is released in comparison with the manual solution
- No impact noise when the lower halt board is hit, since it is not constantly extended
- No mechanical wear
- Simple manual resetting of extended apron
- Position monitoring with contact switch
- Several car aprons can be placed in line for greater door widths

DETAILS

HEIGHT Collapsed - 300 mm, expanded - 750 mm

WIDTH 700 mm to 1.300 mm

24 V supply voltage, 12 W service output, 24 W activating power

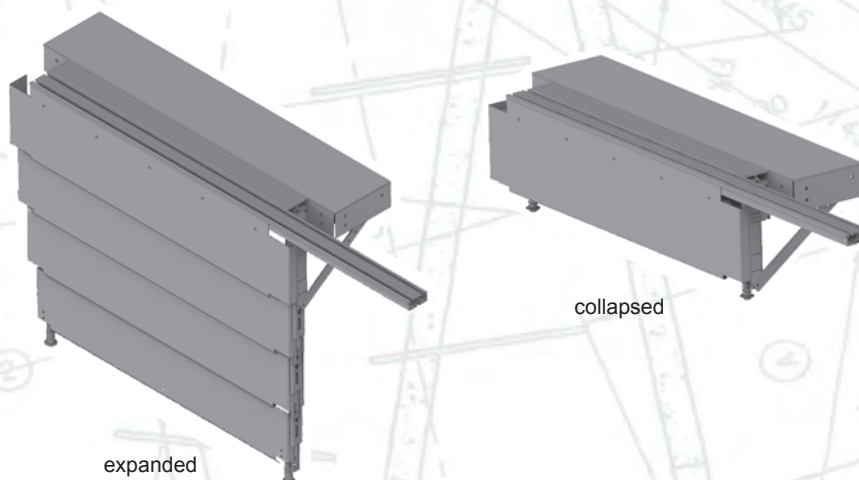
Monitoring with final position switches: 1 NC / 1 NO

Delivered in assembled state

Delivery with Sematic 2000 B door mount and additional mounting parts

Four-part telescopic apron

according to EN 81-1/2, Point 8.4.1/2



Concept

Vertical telescopic lift car apron for use in low shaft pits. In the case of shaft pits that are at least 350 mm deep, the required length of 750 mm can be produced by extending the telescopic apron.

The apron is not extended during normal operation and has a height of around 250 mm. The retracted apron sheets are held in place by a magnet. If released or if a power failure occurs, the apron sheets move to the required apron height automatically. The telescopic apron can then be put back in place manually by trained personnel or via the lift control if technically possible. Thereafter, the system can be used again in normal operation. To ensure that the system functions correctly, the shaft door emergency release devices must be fitted with an additional door contact to be provided by the customer. These measures must be agreed with the responsible inspection authority.

Benefits

- High level of safety thanks to automatic deployment when the shaft door emergency release device is released in comparison with the manual solution
- No impact noise when the lower halt board is hit, since it is not constantly extended
- No mechanical wear
- Simple manual resetting of extended apron or automatically via the lift control
- Position monitoring with contact switch
- Several car aprons can be placed in line for greater door widths

DETAILS

HEIGHT collapsed - 250 mm, expanded - 750 mm

WIDTH 700 mm to 1.100 mm

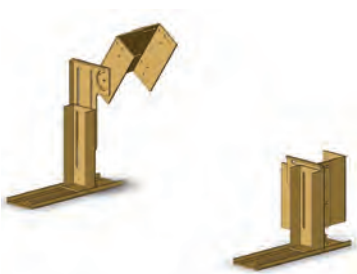
24 V supply voltage, 12 W service output, 24 W activating power

Monitoring with final position switches: 1 NC / 1 NO

Delivered in pre-assembled state

Delivery with mounting parts

FINGER PROTECTION FOR TRACTION SHEAVES AND DEFLECTION ROLLERS



CONCEPT

Protective equipment in accordance with the stipulations of EN 81-1 on the entry and exit points of traction sheave and deflection roller ropes. The protective equipment can be adjusted horizontally and vertically and can be tilted. There are left and right variants.

BENEFITS

- The telescopic design enables a single product to be used for a large number of different scenarios. This significantly reduces planning efforts and costs
- Quick assembly (around 20 minutes per protection device), resulting in time and cost savings in comparison with full casing protection systems, which require more assembly effort
- The finger guard affords protection only to the critical danger areas and does not restrict trained personnel when carrying out maintenance work and inspections
- The optimum accessibility and visibility of the parts to be checked are ensured with this solution
- No need to detach and reassemble the device to carry out inspections
- Different mounting variants are available, such as sliding clips, dowels, screws or welding
- Accessories are available for troublesome mounting surfaces and special dimensions
- Technical Inspection Agency approved for compliance with EN 81-1:1998, section 9.7
- Also certified as anti-lash protection for ropes

DETAILS

MATERIAL Galvanised steel, 4 mm

DESIGN Laser-cut

HEIGHT Up to 525 mm (675 mm max.)

TRACTION SHEAVE THICKNESS Up to 150 mm (220 mm max.)

Delivered as a construction set with sliding clips and warning stickers

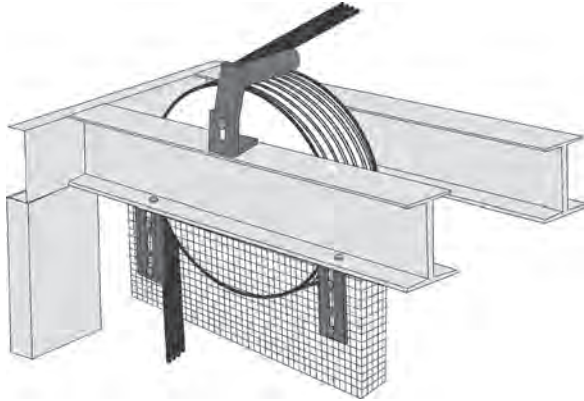
Special solutions available on request

Patent granted: Patent No. EP 1 679 283

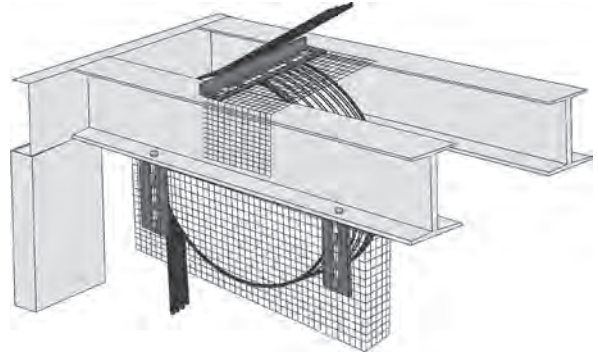


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Scenario 1



Scenario 2

CONCEPT

Protection device consisting of a round steel bar and perforated plate that is attached to deflection rollers with an inclined rope exit point in accordance with the installation conditions at the site. The area beneath the machine frame can be secured using perforated plate and assembly brackets.

BENEFITS

- Prevention of accidents such as extremities or clothing becoming trapped
- Flexibility since the protection device can be used for deflection rollers that are up to 10 cm above the machine frame and that sit deep in the machine frame
- Can be used with roller widths of 200 mm and 300 mm

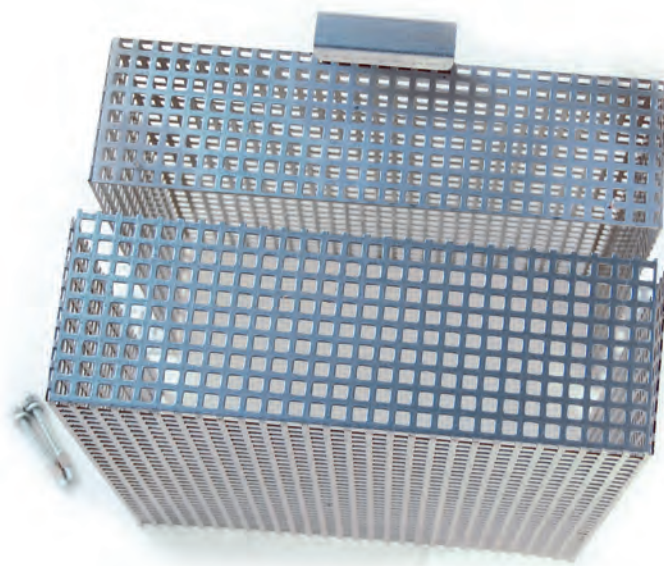
DETAILS

MATERIAL Perforated plate and strong round steel, galvanised

DIMENSIONS The roller protection is designed for deflection rollers with an inclined rope exit point, a maximum width of 300 mm and a maximum roller diameter of 500 mm.

Delivered with assembly brackets and incidentals

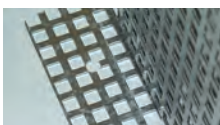
NOTE: This protection device is not suitable for deflection rollers that are more than 10 cm above the machine frame!



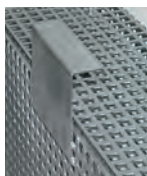
Two M8 anchor dowels are delivered with the guard



Round pins for securing the second half of the guard



Easy to erect using the supplied anchor dowels



Convenient grab handle

CONCEPT

A two-part, depth telescopic perforated plate casing is mounted as a protection device over speed limiters of different sizes and fixed, for example, to the floor with anchor dowels.

BENEFITS

- Prevention of accidents such as extremities or clothing becoming trapped
- Flexible use thanks to telescope function
- A small number of types provides protection for numerous control units
- Convenient grab handle to facilitate raising and repositioning during assembly and when carrying out inspections

DETAILS

MATERIAL Galvanised steel perforated plate, 1.5 mm

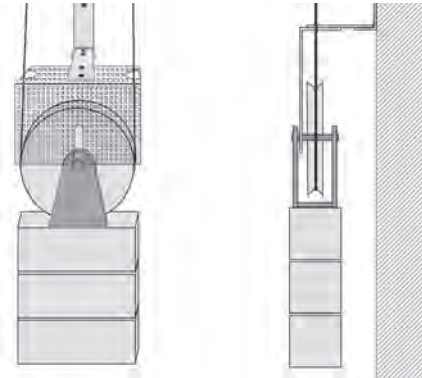
HEIGHT 385/500 mm

WIDTH 340/600 mm

DEPTH Adjustable in a range of 120–190/120–200 mm

Delivered with M8 anchor dowels for mounting

Special solutions available on request


CONCEPT 1

Protection device consisting of perforated plates, to be attached to the shaft wall. In addition, the governor tensioning weight can optionally be monitored with a switch set.

BENEFITS

- Prevention of accidents such as extremities or clothing becoming trapped
- Flexible use with different roller sizes
- In the case of roller sizes of up to 300 mm, the guard can also be used at high speeds
- Optional additional switch set for monitoring the tensioning weight, to be attached to the floor or wall

DETAILS

MATERIAL Galvanised steel perforated plate, 1.5 mm, mesh width of 10 x 10 mm

DIMENSIONS Can be used for rollers of between 200 mm and 400 mm
Delivered with incidentals for attachment to the wall


CONCEPT 2

Protection device consisting of bent flat steel, two-part system with brushing inserts that encompass the rope and protect the rope entry and exit points from falling objects. The system is mounted directly onto the axle support of the tensioning rope roller.

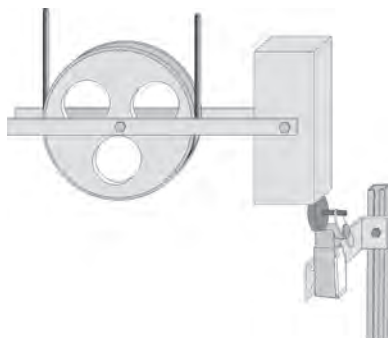
BENEFITS

- Prevention of damage from falling objects
- Flexible use with different roller sizes
- Casing swings along with the roller
- Additional switch set for monitoring the tensioning weight can be attached to either the floor or wall

DETAILS

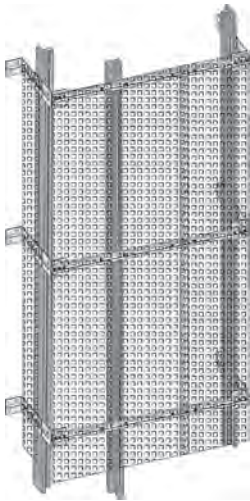
MATERIAL Bent flat steel, two parts of galvanised steel, 1.5mm, with brushing inserts

DIMENSIONS Can be used for 200 mm or 300 mm rollers
Delivered without mounting parts as no additional material is required


SWITCH SET FOR GOVERNOR TENSIONING WEIGHT

Position switches: 1 NC, 1 NO; M20 cable entry point, roller lever, snap contact, stop position screen

Switch set is supplied with incidentals, assembly brackets, and C profile rails



CONCEPT

Counterweight casing made from perforated plate and angular sheet, and C profile rails for use as protection devices up to a width of max. 1.240 mm and a depth of max. 300 mm for the basic kit. The equipment is installed in accordance with EN 81-1 5.6.1 with a gap of 300 mm between the floor of the shaft and the lower edge of the casing, obtaining a total height of 2.500 mm.

BENEFITS

- Prevention of accidents in the counterweight danger area
- Accessories enable the system to be extended to 1.600 mm and the installation depth to be increased to 450 mm
- Complies with EN 81-1 5.6.1
- Flexible use thanks to variable width and depth

DETAILS

MATERIAL Galvanised steel perforated plate, 1.5 mm

MESH WIDTH 8 x 8 mm

HEIGHT 2.20 m

WIDTH OF INDIVIDUAL ELEMENTS 0.31/0.15 m

Delivered with mounting parts for attachment to the wall

Special solutions available on request



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CONCEPT

The counter-weight protection consists of two bevelled steel plates, horizontal telescopic up to a max. width of 1250 mm. The cover is fixed to the guide rail with clips. According to EN81-1 5.6.1, the mounting has to be done with a distance of 300mm between shaft floor and the lower edge of the counterweight protection, so that the total height of 2.500 mm is ensured.

BENEFITS

- Prevention of accidents in the counterweight danger area
- Complies with EN81-1 5.6.1
- Flexible use because of variable width
- Simple installation thanks to few parts

DETAILS

HEIGHT 2,20 m

WIDTH OF THE SINGLE ELEMENT 1 m

MATERIAL Steel plates made of galvanised steel 1,5 mm

Delivery with fixing material

Individual dimensions upon request



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3-PART GUARD RAIL

FIXED GUARD RAIL SYSTEM

For application on car roof in case of sufficient shaft head clearance.


AVAILABLE GUARD RAIL HEIGHTS

- max. height of guard rail: 1100 mm
- max. height of guard rail: 900 mm
- max. height of guard rail: 700 mm

BENEFITS

- Flexible and simple mounting
- Few components
- Light-weight design
- Moderate mounting time

DETAILS

MATERIAL	Round tubes made of aluminium, pipe joints fully galvanised, with fixing material
LENGTH	Max. length of guard rail: 2030 mm
WIDTH	Max. width of guard rail: 1430 mm

TELESCOPIC GUARD RAIL SYSTEM

For application on car roof in case of INSUFFICIENT shaft head clearance.



To enter the car roof, simply use the handle to extract the guard rail to a safe height. Fitters safely operate from the floor level.

A safety switch controls the position of the car guard rail. An inspection ride on the car roof is possible as soon as the guard rail is extended and the safety switch opens / shuts.

The car guard rail is retracted by a revision ride into the shaft head, while the shaft ceiling presses it down and locks it.

DETAILS

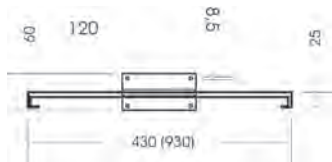
MATERIAL	Comparable with fixed guard rail, but with the following height intervals:
HEIGHTS	580 mm up to max. height of guard rail: 1100 mm
	465 mm up to max. height of guard rail: 900 mm
	350 mm up to max. height of guard rail: 700 mm

The 3-part telescopic car guard rail is TÜV Süd certified and conforms to EN 81-1/2 Pkt. 8.13.3.1-4, 8.13.4 and 8.13.5.5.

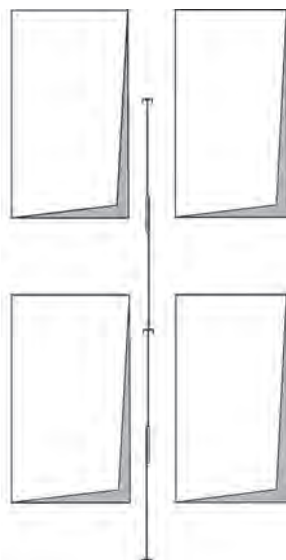




In accordance with EN 81, partitions for lift groups and counterweights are mandatory if the gap between the moving parts is less than 0.5 m



Partition consisting of 2 bevelled perforated plate elements that can be slid into each other



CONCEPT

Partitions consisting of 2 bevelled perforated plate elements that can be slid into each other. This enables the safe separation of lift shafts when attached between the cross beams. They can be mounted either vertically or horizontally.

BENEFITS

- Prevention of accidents for lift groups with gaps between moving parts of less than 500 mm
- Flexible use thanks to telescope function
- Both vertical mounting between traverse beams and horizontal mounting between shaft walls possible
- Sound and professional wire netting solution
- Various mounting options
- Complies with EN 81

DETAILS

MATERIAL Primed steel perforated plate, 1.5 mm

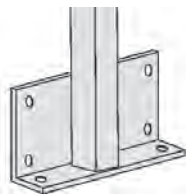
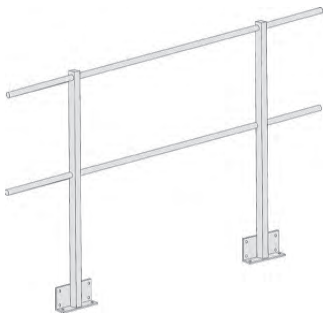
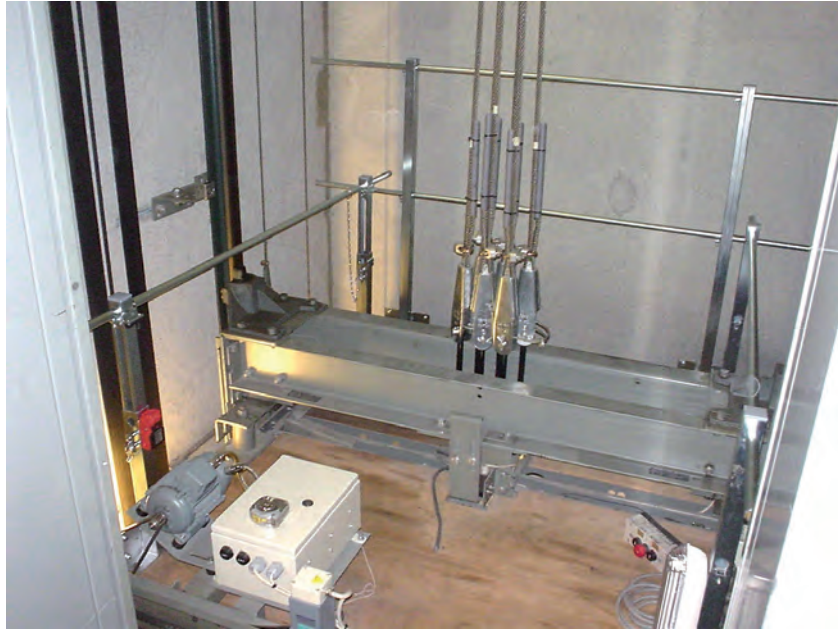
MESH WIDTH 8 x 8 mm

WIDTH 430/930 mm

HEIGHT Extendable in intervals between 1.000 mm to max. 3.600 mm

The flat iron bars welded onto the perforated plate elements enable the system to be mounted to the traverse beams or shaft walls using screws or rivets or by welding, for example.

CAR GUARD RAILS



The rail stanchion can be mounted horizontally or vertically!



Optionally, the car railing can be enhanced by the addition of a toeboard (edge guard) that is 1.200 mm long and 100 mm high

CONCEPT

Fixed or telescopic rail stanchions of different heights with continuous hand and midrails (cross beams) with a standard length of 2.0 m, to be adjusted on site. The rail stanchions can be mounted from above to the top of the car or at the side to existing upturn beams on the top of the car. The telescopic variant has a contact protection device.

BENEFITS

- Easy to install, uncomplicated solution
- Flexible use thanks to modification on site
- Multiple support pillars and cross beams can be strung together
- Static and telescopic variants both available in two sizes
- Optional addition of 10 cm high toeboard
- End caps for hand and midrails hide raw edges once the system has been cut to size

DETAILS

MATERIAL Galvanised steel

HEIGHT OF FIXED VERSION 0.70 or 1.10 m

HEIGHT OF TELESCOPIC VERSION 0.50–0.70 m or 0.70–1.10 m

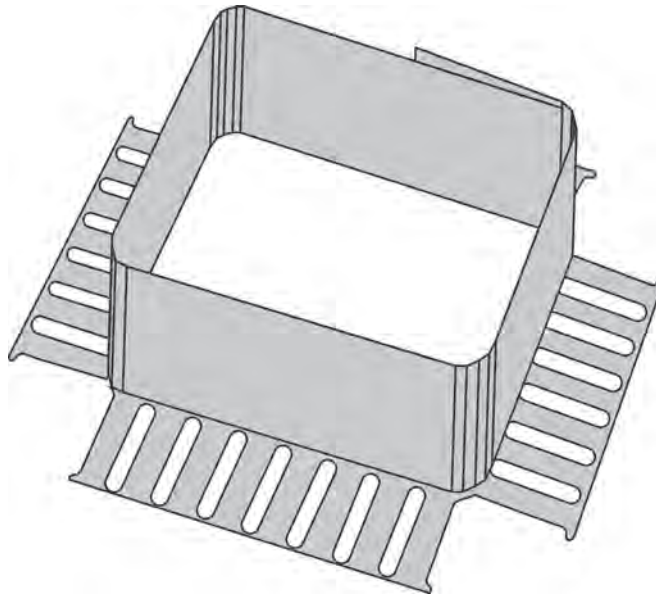
LENGTH OF CROSS BEAM 2.00 m

DIAMETER OF CROSS BEAM 22 x 2 mm

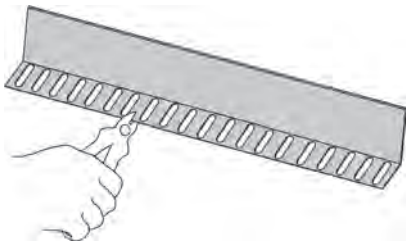
PILLAR DIMENSIONS 40 x 40 x 3 mm or. 45 x 45 x 2 mm

CONTACT Safety switch, 1 NC, 1 NO

End caps and locking screws for securing the cross beams are supplied.



Single-part continuous angular sheet, slotted and galvanised dimensions: 40 x 50 mm or 40 x 100 mm, 1.200 mm long



The angular sheet can be cut and bent to the required length



Car railings in conjunction with edge protection (here: toeboard)

CONCEPT

Universal floor edging in accordance with EN 81 prevents objects from falling through rope holes in the floor and base of engine rooms and pulley rooms. The angular sheet is cut to the required length, bent, and then attached with dowels. Excess sheet can over-lap. The 100 mm high variant can also be used as a toeboard for car guard rails.

BENEFITS

- Quick and easy assembly
- Only the side with the slots needs to be cut
- Can be used to prevent objects from falling through rope openings or as a toeboard (100 mm high) for car railings
- The upturn part can also be used for openings that do not need to be completely protected all the way round

DETAILS

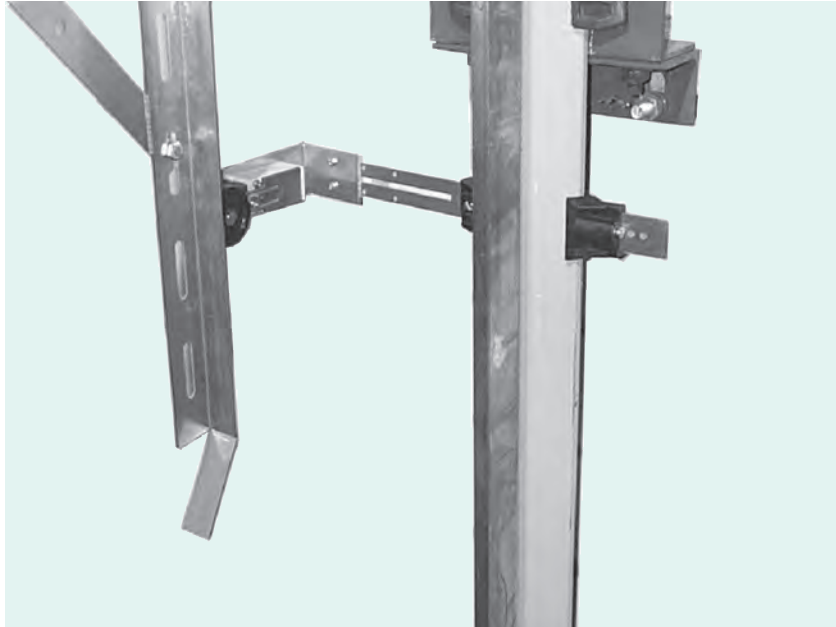
MATERIAL Galvanised steel, 1 mm

LENGTH 1.200 mm

HEIGHT 50 or 100 mm

DEPTH 40 mm

EMERGENCY LIMIT SWITCH WITH SWITCH CURVE

**CONCEPT**

In accordance with EN 81-2, there must be an emergency limit switch in the piston area that corresponds to the upper end of the lift car track. The following requirements must be met: The emergency limit switch must activate immediately when the upper stop point is reached, but it must not impede the normal operation of the lift system. The emergency limit switch must take effect before the piston hits the cushioned limit stop (EN 81-2, item 12.2.3). The emergency limit switch can be delivered with a switch curve, mounting brackets, and guide rail attachment set if required.

BENEFITS

- Switch can be mounted straight or at a 90° angle
- Emergency limit switch available with snap contact or sliding contact
- Can be delivered as a single part or in a set

DETAILS

MATERIAL Galvanised steel

CONTACT Emergency limit switch with 40 mm rubber roll; AC15 3A at 240V; 1 NC, 1 NO; snap contact

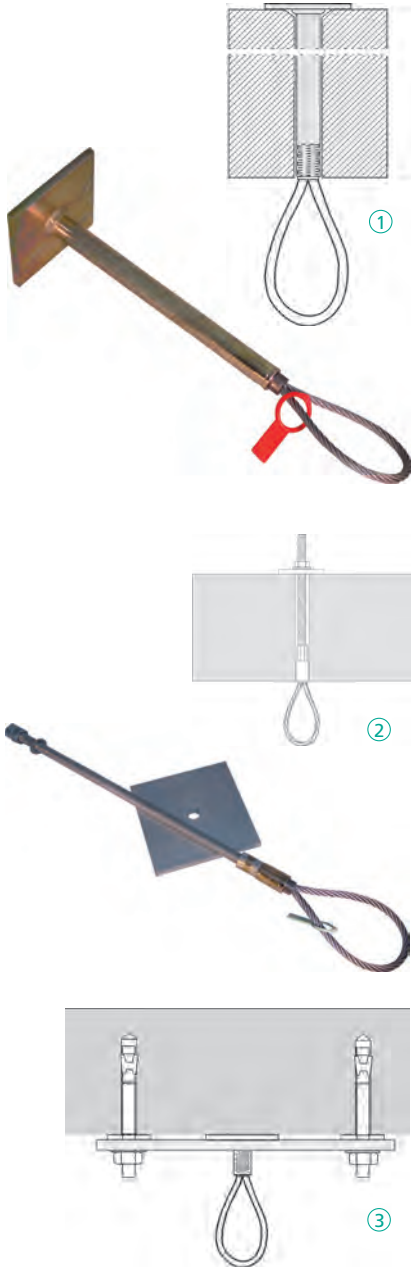
SWITCH CURVE LENGTH 930 mm

EFFECTIVE SWITCH CURVE LENGTH 750 mm



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CONCEPT

Flat steel anchor design with bushing ① or threaded post and press-fitted rope eye ② and as a load point set for subsequent assembly. ③

The correct solution depends on access possibilities to the shaft or machine room ceiling. Flat steel anchor solutions can be used from above if the ceiling can be accessed. However, the load point set, with steel sheet, flat steel anchor, and heavy-duty dowels, is used if assembly is to take place from the inside of the shaft or machine room.

BENEFITS

- Solutions for mounting from both above and below
- Threaded post with press-fitted rope eye can be cut to length depending on the ceiling thickness
- Static checks/test reports are available for all 3 solutions
- Different load capabilities available from 12kN to 40kN depending on the product solution
- Labelled with data signs/embossing in accordance with EN 81

DETAILS

MATERIAL Galvanised steel, threaded post in St 52 special grade steel, primed steel sheet

LENGTH Long flat steel anchor with 25 cm long sleeve, 50 cm long threaded post

The rope eye is optional and can be ordered separately from the long flat steel anchor and steel sheet solution.

NOTE: Less reliable load values on the long flat steel anchor must be taken into account for ceiling thicknesses of less than 25 cm.