

Mounting instruction

4-part telescopic car apron

TekoS - 265mm



Intended use:

The 4-part telescopic car apron prevents the inadvertent fall of persons into the lift shaft beneath the car. The apron must cover at least the clear width of the cabin door with the lowest sheet. In case of early opening doors it has to be made sure that the area where the lift comes to a stop at a landing is mechanically adjusted in a way that there is no gap below the fix part of the car apron when the doors begin to open. The use of the apron during docking operations is not allowed. By creating a temporary clearance in order to comply with paragraph 5.2.5.8 of the EN81-20 or with paragraph 5.7.2.4 of the EN81-21, the required safety distances below the apron have to be implemented.

Cabin door locking device:



According to the EN81-21 paragraph 5.8.2, a cabin door locking device is required, if the client did not arrange for any equivalent safety measures preventing that persons are endangered when they are locked in and try to release themselves.

Collision prevention:



According EN81-21 paragraph 5.8.2, when going down, a directional switch has to prevent that the lift can be moved with the control of inspection operation and the lift return control in the area, where an apron, which is not retracted, may collide with the pit floor.

Warning notices:



The 4-part telescopic apron is only suitable for mounting at a door sill of a lift car.



The mounting may only be carried out by specialised persons*. All appropriate safety regulations and the necessary safety precautions for the elevator assembly are to be considered.



Assembly, disassembly and maintenance can only be carried out if the lift system is switched off.



All indications in the mounting instruction including the service are absolutely to be followed.

Keep the instruction for later use!

Manufacturer:

W+W Aufzugkomponenten GmbH u. Co.KG
Erkrather Straße 264-266
40233 Düsseldorf
Germany

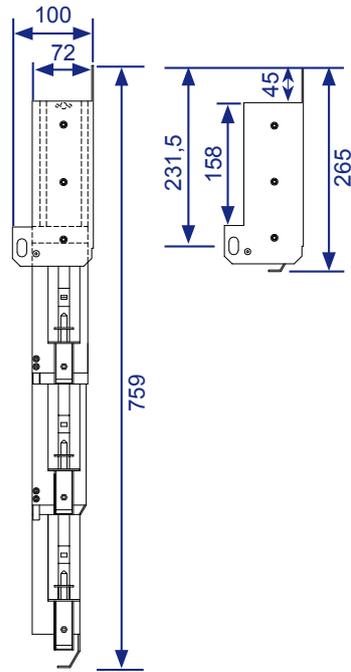
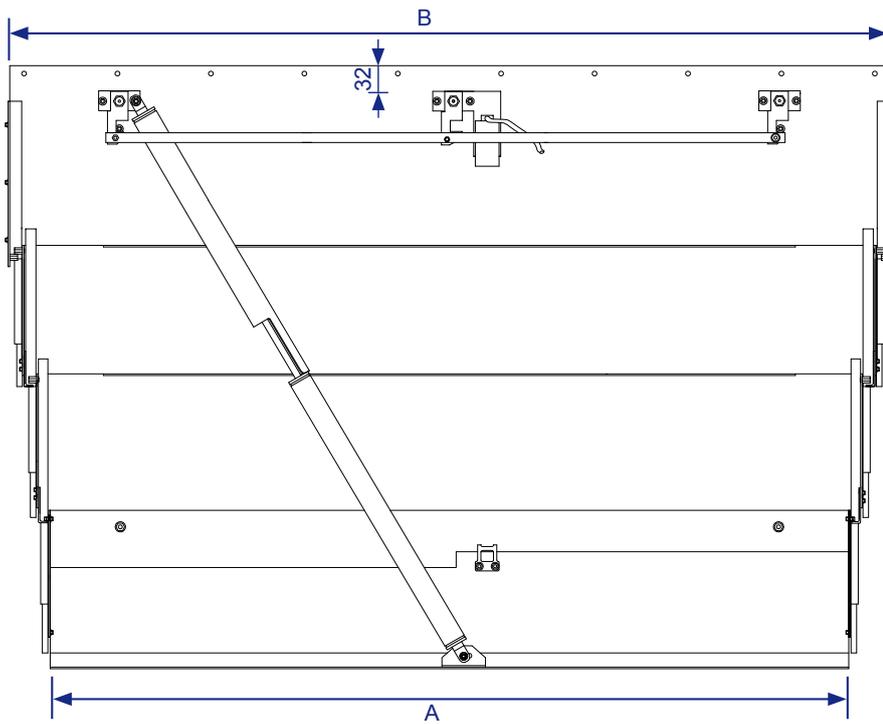
*specialised person (gem. EN81-20):

A person who has received training especially for lifts, who is qualified by knowledge and experience and who has received the instructions required for a safe execution of maintenance work, lift inspections or passenger releases.



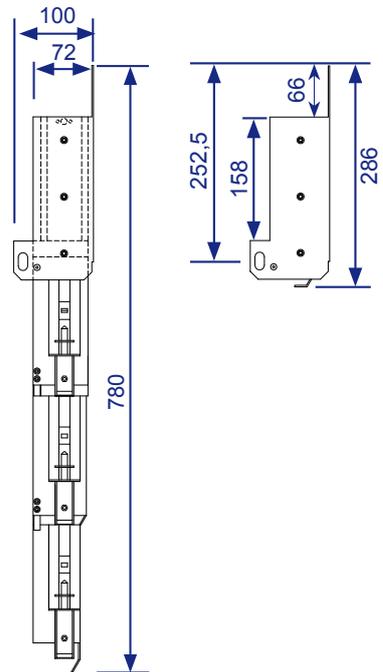
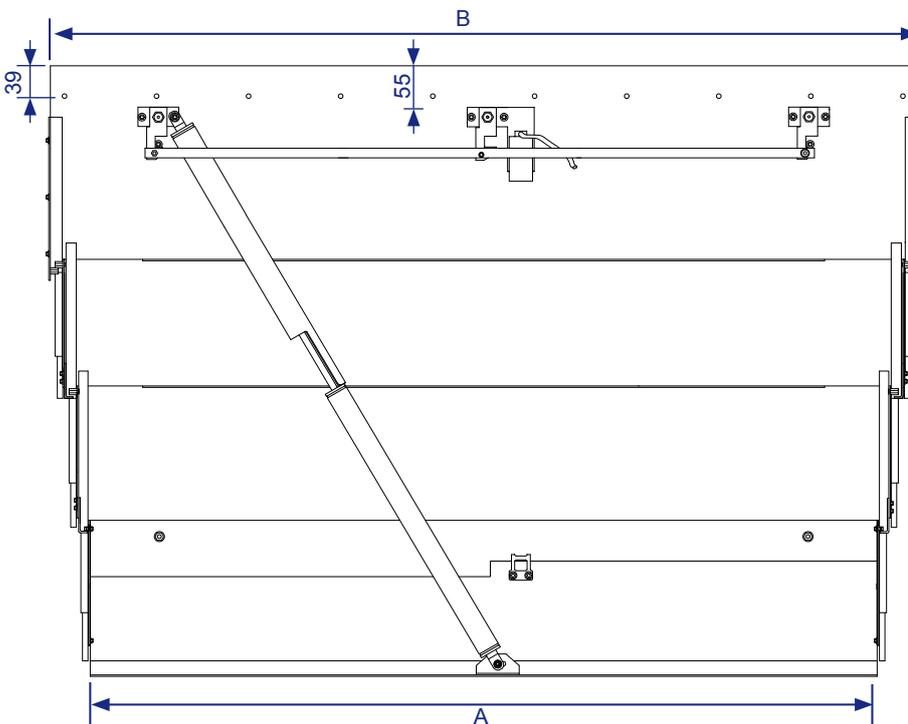
Measures:

STANDARD:



door width	A	B	weight
550- 600	609	712	16,4kg
650- 700	709	812	18,0kg
750- 800	809	912	19,7kg
850- 900	909	1012	21,2kg
950-1000	1009	1112	22,7kg
1050-1100	1109	1212	25,2kg

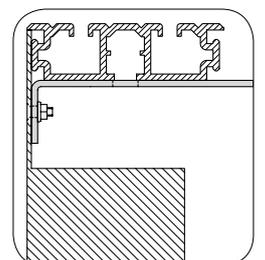
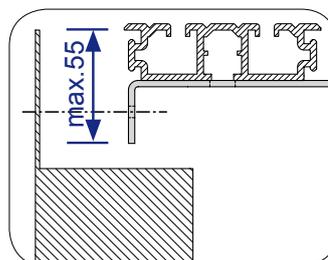
EXTENDED:



Extended

TekoS 265-extended is for doorsill with sill angle only (e.g. Meiller). The height must be 55mm.

The fastening must be take place at the sill angle!



Scope of delivery



Scope of delivery:

- 1 pc. telescopic apron, 2mm galvanised sheet steel, incl. monitoring switch
- 1 pc. yellow adhesive label for machine room (German) 80x120
- 1 pc. yellow adhesive label for apron (German) 115x75
- 1 pc. yellow adhesive label for apron (German) 130x40
- 2 pcs. angles for fixing the telescopic apron at the door sill of the cabin*
- 2 sets fastening material (angles, diagonal strut)
- 1 set bag with small parts (screws, nuts, etc.)
- 1 pc. detailed mounting instruction, German



TekoS 265 STANDARD:

Art.no	description
79845	TekoS-265 door width 550- 600mm
79920	TekoS-265 door width 650- 700mm
79921	TekoS-265 door width 750- 800mm
79922	TekoS-265 door width 850- 900mm
79923	TekoS-265 door width 950-1000mm
79924	TekoS-265 door width 1050-1100mm

TekoS 265 EXTENDED:

Art.no	description
79846	TekoS-265 door width 550- 600mm extended
79925	TekoS-265 door width 650- 700mm extended
79926	TekoS-265 door width 750- 800mm extended
79927	TekoS-265 door width 850- 900mm extended
79928	TekoS-265 door width 950-1000mm extended
79929	TekoS-265 door width 1050-1100mm extended

stainless steel

Art.no	description
79908	TekoS-265 door width 550- 600mm VA*
79930	TekoS-265 door width 650- 700mm VA*
79931	TekoS-265 door width 750- 800mm VA*
79932	TekoS-265 door width 850- 900mm VA*
79933	TekoS-265 door width 950-1000mm VA*
79934	TekoS-265 door width 1050-1100mm VA*
Art.no	description
79839	TekoS-265 door width 550- 600mm VA* extended
79840	TekoS-265 door width 650- 700mm VA* extended
79841	TekoS-265 door width 750- 800mm VA* extended
79842	TekoS-265 door width 850- 900mm VA* extended
79843	TekoS-265 door width 950-1000mm VA* extended
79844	TekoS-265 door width 1050-1100mm VA* extended

Individual parts:



TekoS-265
Mounting angle left
Art.no.79977

TekoS-265
Mounting angle right
Art.no. 79978

TekoS-265
Fixation kit A
Art.no. 79979

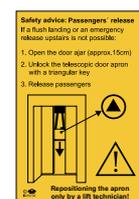
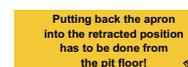
Safety labels TekoS-265 for foreign countries

Adhesive labels for apron + machine room + mounting instruction

If the apron is used in non-German speaking countries, the safety labels to be glued on the apron and in the machine room have to be ordered separately in the respective national language.

- 79971 Safety labels TekoS-265 English
- 79972 Safety labels TekoS-265 French
- 79973 Safety labels TekoS-265 Italian

- 79974 Safety labels TekoS-265 Spanish
- 79975 Safety labels TekoS-265 Portuguese
- 79976 Safety labels TekoS-265 Russian





Before mounting, take care that there are no holes in the door sill slots, otherwise the mechanics of the apron would be damaged by dirt and water!

Mounting advice:

It is recommended to accomplish the assembly with two persons, with the cabin standing at the lowest landing.

Mounting:

1.

Affixing the adhesive label to the apron:

The apron has three triangular unlocking devices. The label has to be placed next to the triangular unlocking device which becomes visible at first when opening the landing door.



First of all remove grease from the surface where the label is affixed to!



Remove grease before affixing the label!

2.



Selection of the mounting position:

The apron has to be placed below the cabin door, so that:

- a) the apron measure A overlaps at least 25mm on the right and on the left side of the cabin door.
- b) the label is clearly visible

3.

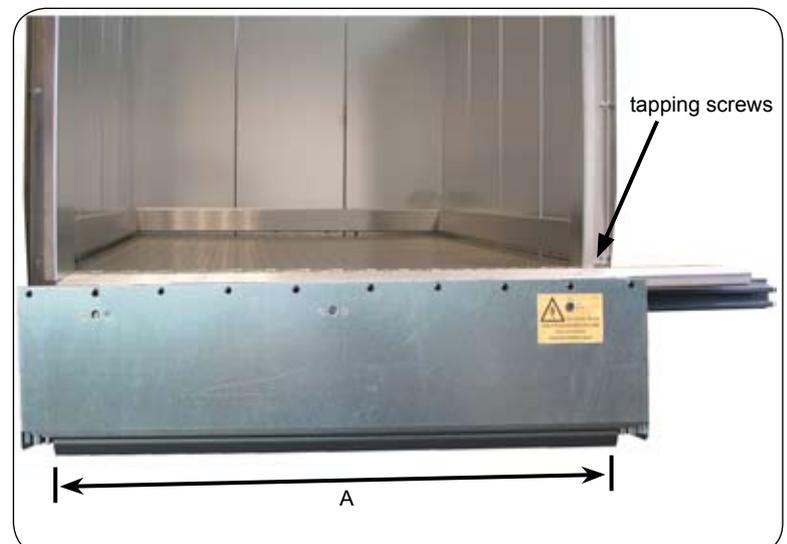
Fasten the apron to the door sill by means of the tapping screws (holes in the door sill $d=4\text{mm}$).

In order to avoid subsequent noises and to achieve stability, all available fixing holes must be used.

When selecting the length of the tapping screws, please consider that:

- the screw has to be inserted at least 2 entire thread turns into the door sill.
- the screw must not extend into the moving area of the cabin door guides

3 lengths of tapping screws are included in delivery:
 $l=9,5\text{mm}$ $l=13\text{mm}$ and $l=16\text{mm}$



4.

To obtain a sufficient solidity of the apron it has to be stabilised on **both** sides.
Therefor two fixation variants are included in delivery.



Important mounting indication:

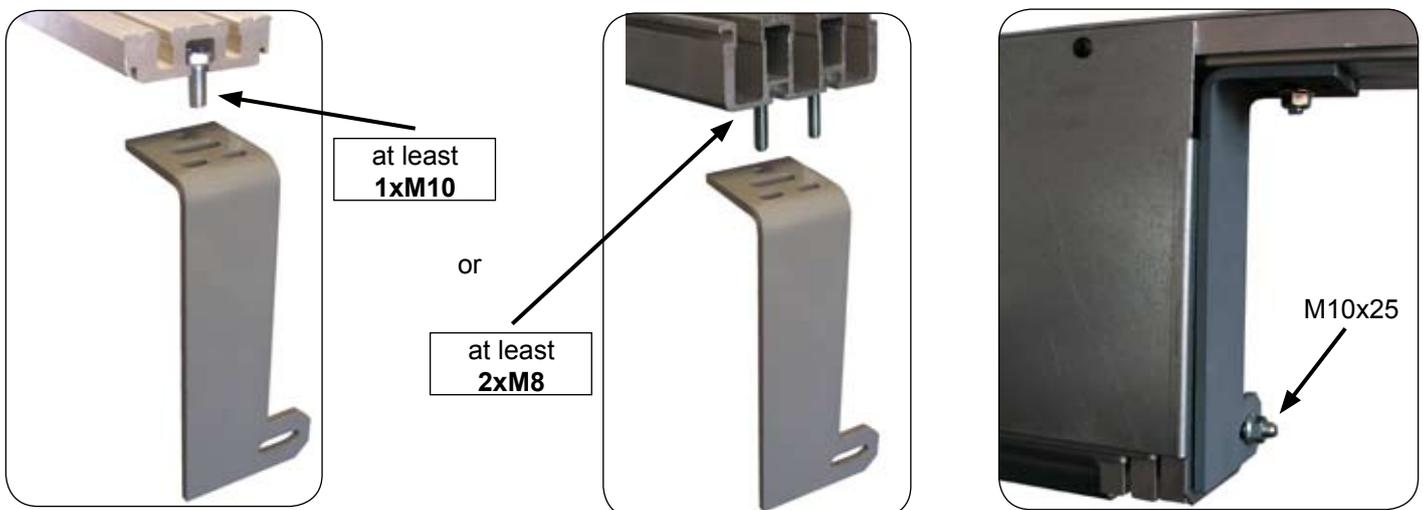
When mounting take care that the door sill and the door sill mounting construction have a sufficient stability, so that the forces acting on the extracted apron in case of rescuing persons are safely absorbed.

The fixation variant 2 is required at least on one side.

If the door sill does not consist entirely of aluminium, the producer recommends to use the fixation variant 2 on both sides.

The selection and the responsibility for a safe fixation at the cabin door sill is incumbent on the user.

Mounting of the fixation variant 1 (only possible with STANDARD-Version):



In case of the fixation variant 1 at first the mounting angle has to be fastened at the door sill. This is done with a hex head screw, the size and number depending on the door sill profile.

When fixing with one screw, at least size **M10** has to be used.

When fixing with two screws at least size **M8** has to be used.

The angle is fastened with a M10x25 screw and a M10 self-locking nut at the apron sheet.

Please take care that the long side of the angle runs exactly **parallelly** to the apron. Otherwise the apron sheets are locked into each other and the apron does not open.

Mounting of the fixation variant 2 (recommended):

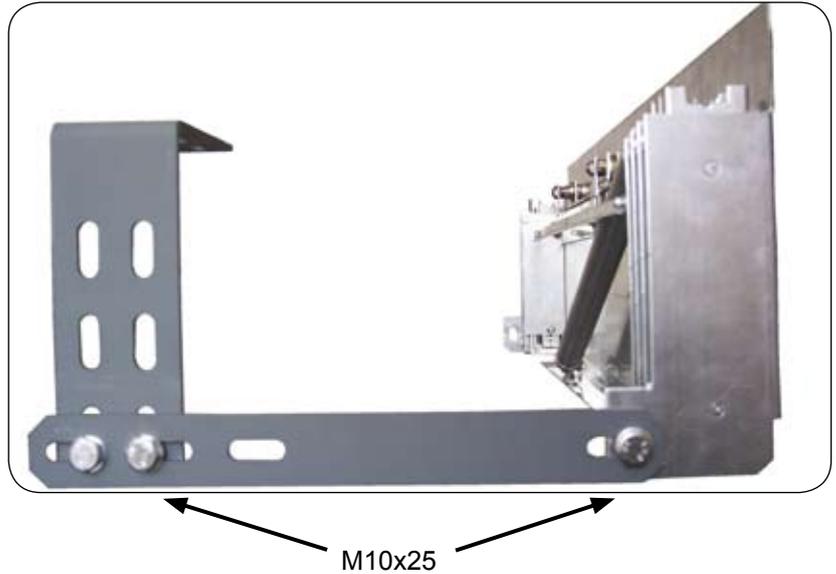
In case of the fixation variant 2 at first the diagonal strut has to be fastened at the apron sheet by means of a M10x25 screw and a M10 self-locking nut.

The diagonal strut can be connected directly with the cabin. In most cases however the mounting angle is also needed.

The connection diagonal strut - mounting angle is realised with a M10x25 screw and a M10 self-locking nut.

The connection mounting angle - cabin is realised with two M10x25 or M10x35 screws and M10 self-locking nuts (both lengths are included in delivery).

When mounting the fixation variant 2 it has to be taken into consideration that the diagonal strut does not weigh on the side of the apron sheet. Otherwise the apron sheets are locked into each other and the apron does not open.



5.

Monitoring switch:

A safety disconnecter monitors the retracted state of the telescopic apron.

The apron automatically locks into its normal position when pushing it upwards and the switch is closed.

Technical data monitoring switch: IEC/EN 60947-5-1

AC-15 4A 230V

DC-13 4A 24V

2 NC

Connecting cable: 5m YSLY-OZ 4x1mm²
grey / black = contact 1
blue / brown = contact 2



Only a qualified lift technician may move the lift, when the apron is not fully retracted.

When doing that, he has to take into consideration that:

According EN81-21 paragraph 5.8.2, when going down, a directional switch has to prevent that the lift can be moved with the control of inspection operation and the lift return control in the area, where an apron, which is not retracted, may collide with the pit floor.

In case of disregard the apron and the car may be destroyed!

6.

Functional check

After mounting, the functional capability has to be checked. The apron must extend if **one** of the triangular locks is opened. The buffer controls the extension speed.

In the extended state the vertical part of the apron must amount to 750 mm.

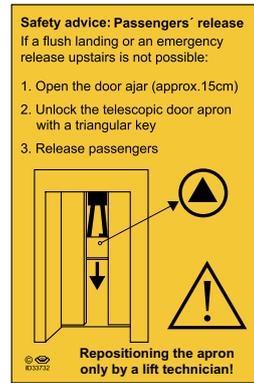


Attention:

When extending the apron keep in mind that no extremities, for example feet, extend into the pit!

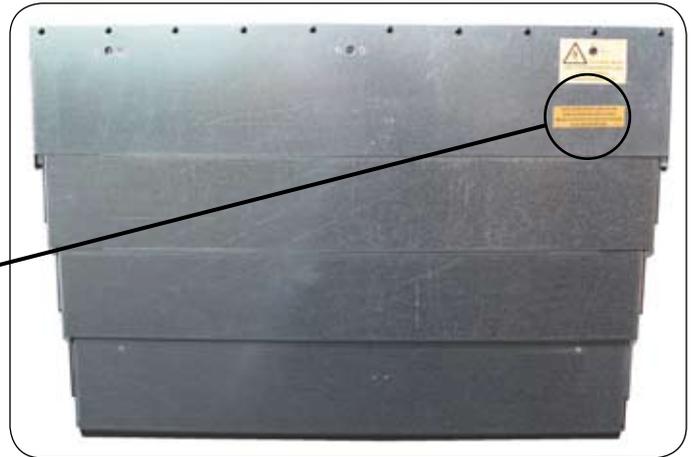
7.

Affix the label "Advice on releasing persons" so that it is clearly visible in the machine room near the main switch. As a rule the switch cabinet door is very suitable.



8.

Glue the adhesive label „Putting back the apron into the retracted...“ under the first label (see point 1). The apron has to be degreased before placing the label.



Final inspection



After the assembly all screw connections are to be examined again and retightened if necessary. The apron has to extend and retract easily.

Instructing the lift attendant



The rescue service has to be instructed regarding the function and use of the apron.

10.

Indication:

According to the EN81-21 paragraph 7.2.4 the pit and the machine room have to be marked with the following inscription (optional, not included in the delivery):

Machine room

Art. no. 50332

Adhesive label: Dimensions 130x180 „REDUCED PIT“

Pit

Art. no. 50333

Sign: Dimensions 200x300 „REDUCED PIT“



Certificate

on a Voluntary Type Examination

Registration No.

01/208/FB/18/7065Ae1

Company

The TÜV Rheinland Certification Body for Lifts and their Safety Components at TÜV Rheinland Industrie Service GmbH hereby certifies to

**W + W
Aufzugskomponenten GmbH u. Co. KG
Erkrather Str. 264-266
40233 Düsseldorf
Germany**

Product

that the product

manually extendable telescopic apron

Type

TekoS – 265 mm

fulfils the requirements of the Directive 2014/33/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to lifts and safety components for lifts.

Evidence was obtained in a verification for conformity that was carried out on 2018-09-28.

Document(s) forming the basis for the examination

Examination report No. 01/208/FB/18/7065Ae1

Directive 2014/33/EU
DIN EN 81-20: 2014-11
DIN EN 81-21: 2018-07

Use

Use of car aprons in lifts with reduced pit depths

This Certificate covering the placing of the product on the market will be valid until 2023-09-27 provided the as-built condition of the product is in conformity with the technical dossier examined (use in compliance with the Instruction Manual examined).

Cologne, 2018-09-28


Dipl.-Ing. Georg Theisen
Tel. +49 221 866 - 2452

TÜV Rheinland Certification Body
for Lifts and their Safety Components at TÜV Rheinland Industrie Service GmbH

Notified under No. 0035

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln (Germany)

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