

Mounting instruction

4-part telescopic car apron

TekoS - 286mm Automatic



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 5.7.3.3 of the EN81-1, with paragraph 5.7.2.3 of the EN81-2 or with paragraph 5.7.2.3 of the EN-81-21, 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 assembly has to be effected by specialised persons* only. When mounting all corresponding safety regulations and measures for the assembly of lifts are to be considered.



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



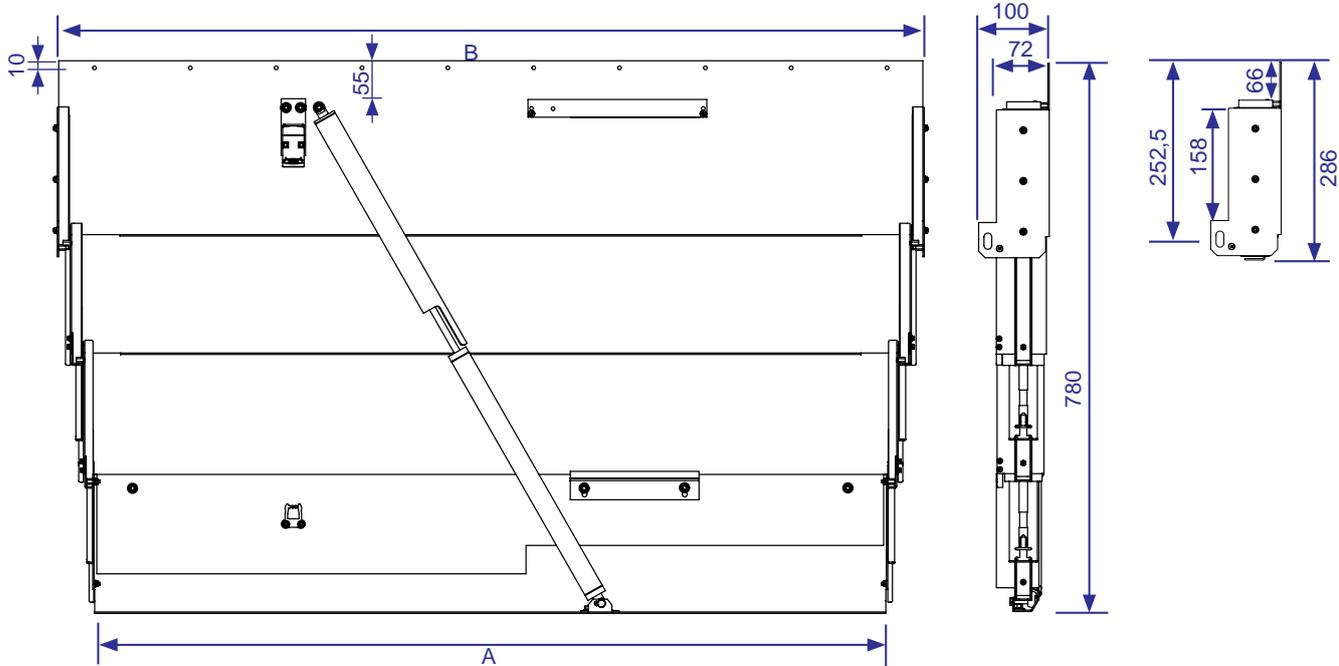
All indications in the mounting instruction including the service are absolutely to be followed.

Keep the instruction for later use!

*Specialised person (corresponding to EN81-20):

A person who has been trained accordingly and disposes of expertise based on knowledge and experience, and who is equipped with the necessary instructions to be able to safely effect the required maintenance or control of the lift, or the rescue of passengers.

Measures:



| 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 |

Scope of delivery :

- 1 pc. telescopic apron, 2mm galvanised sheet steel, incl. monitoring switch and magnet
- 1 pc. yellow adhesive label for machine room (German)
- 1 pc. yellow adhesive label for apron (German)
- 1 set fastening material (angles, diagonal strut)
- 1 pc. bag with small parts (screws, nuts, etc.)
- 1 pc. detailed mounting instruction, German

All indications in mm. The fixation set weighs approximately 2 kg.



TekoS 286 Automatic:

| Art.no. | Description |
|---------|--|
| 079870 | TekoS-286 Door width 550- 600mm automatic |
| 079871 | TekoS-286 Door width 650- 700mm automatic |
| 079872 | TekoS-286 Door width 750- 800mm automatic |
| 079873 | TekoS-286 Door width 850- 900mm automatic |
| 079874 | TekoS-286 Door width 950-1000mm automatic |
| 079875 | TekoS-286 Door width 1050-1100mm automatic |

| Art.no. | Description |
|---------|--|
| 079876 | TekoS-286 Door width 550- 600mm VA* automatic |
| 079877 | TekoS-286 Door width 650- 700mm VA* automatic |
| 079878 | TekoS-286 Door width 750- 800mm VA* automatic |
| 079879 | TekoS-286 Door width 850- 900mm VA* automatic |
| 079880 | TekoS-286 Door width 950-1000mm VA* automatic |
| 079881 | TekoS-286 Door width 1050-1100mm VA* automatic |

* Front sheet in stainless steel, ground with grain size 240, the rest is made of galvanised steel sheet.

Mounting instruction+Safety label TekoS-286 Automatic foreign countries

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

Putting back the apron into the retracted position has to be done from the pit floor!

| | |
|--------|--------------------------------|
| 079883 | Safety label TekoS-286 English |
| 079884 | Safety label TekoS-286 French |
| 079885 | Safety label TekoS-286 Italian |

| | |
|--------|-----------------------------------|
| 079886 | Safety label TekoS-286 Spanish |
| 079887 | Safety label TekoS-286 Portuguese |
| 079888 | Safety label TekoS-286 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.



Selection of the mounting position:

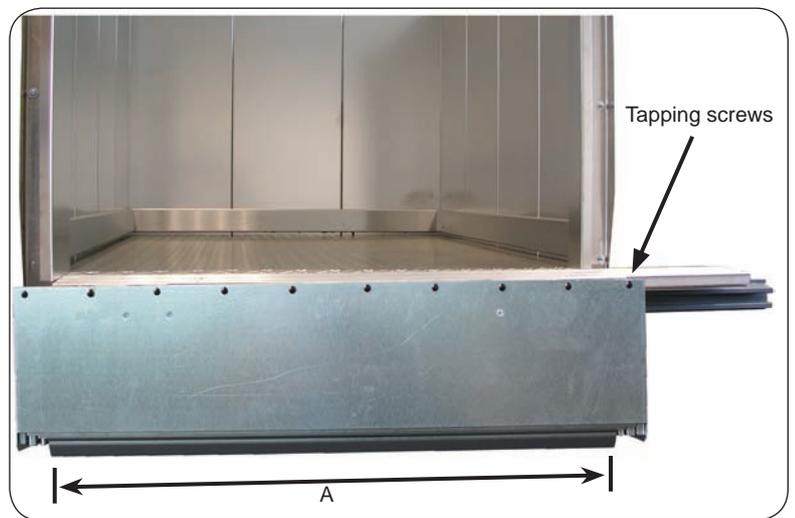
The apron has to be placed below the cabin door, so that the measure A of the apron covers the clear width of the cabin door.

2.

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 $l=16\text{mm}$



3.

To obtain a sufficient solidity of the apron it has to be stabilised on **both** sides.



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

Mounting of the fixation

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.

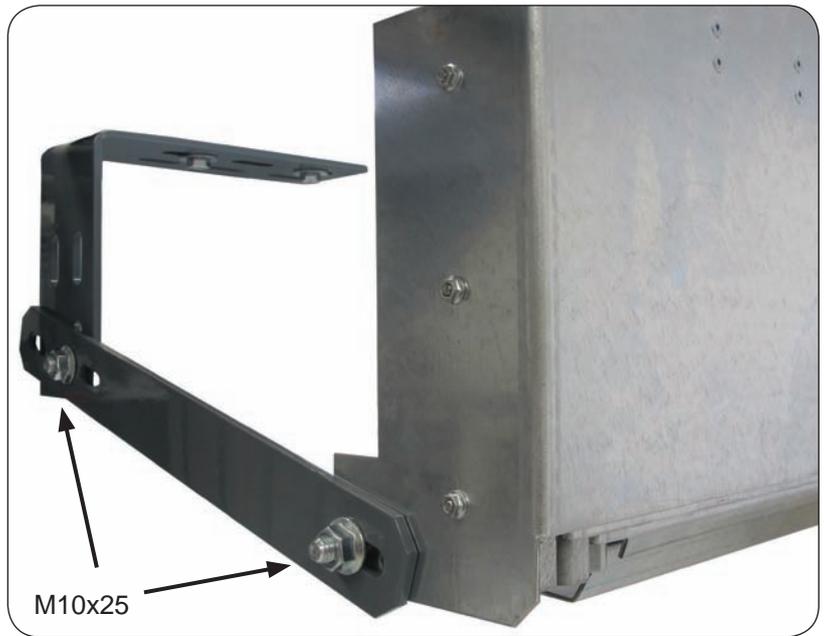
The diagonal strut can be connected directly with the cabin. In most cases however the mounting angle is also needed.

The connection diagonal strut - mounting angle is realised with at least one 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).

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.



4.

Magnet locking:

A magnetic locking device holds the apron in the retracted state. If there is a loss of voltage at the magnet, the apron extends automatically.

Only when the magnet is energised again, the apron can be retracted and locked again.

Technical data magnet:

U= 12V DC

I= 500mA

ED = 100%

Connecting cable: 5m YSLY-OZ 2x1mm²

Technical data contact:

AC-15 4A 230V

DC-13 4A 24V

2 NC

Connecting cable: 5m YSLY-OB 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!

5.

Functional check

After mounting, the functional capability has to be checked. If there is a loss of voltage at the magnet, the apron must extend completely. The buffer controls the velocity, with which the apron extends.

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!

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

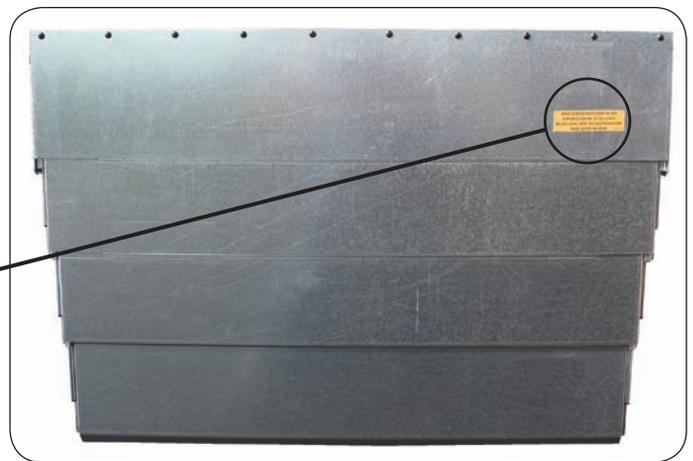


The rescue service has to be instructed regarding the function and use of the apron.

6.

Indicating signs:

Glue the adhesive label „Putting back the apron into the retracted...“ on the upper sheet. The apron has to be degreased before placing the label.



In the **machine room** an information has to be attached indicating on the automatic apron (not included in the delivery).

7.

Indication:

According to the EN81-21 paragraph 7.2.3 the pit and the machine room have to be marked with the following inscription (optional, not included in the delivery):

Machine room

Art.no. 050330

Adhesive label: Dimensions 130x180 „REDUCED PIT“

Pit

Art.no. 050331

Sign: Dimensions 200x300 „REDUCED PIT“



Bescheinigung

über eine freiwillige Baumusterprüfung

Registrier-Nr.

01/208/FB/18/7067Ae1

Die TÜV Rheinland Zertifizierungsstelle für Aufzüge und deren Sicherheitsbauteile der TÜV Rheinland Industrie Service GmbH bescheinigt hiermit dem Unternehmen

Firma

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

die Übereinstimmung des Produktes

Produkt

automatisch ausfahrbare Teleskopschürze

Typ

TekoS – 286 mm automatik

mit den Anforderungen der Richtlinie 2014/33/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Aufzüge und Sicherheitsbauteile für Aufzüge.

Der Nachweis wurde am 2018-09-28 erbracht durch eine Konformitätsprüfung.

Prüfgrundlagen

Prüfbericht Nr. 01/208/FB/18/7067Ae1

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

Verwendung

Einsatz von Fahrkorbschürzen bei verringerter Schachtgrubentiefe

Dieses Zertifikat gilt für das Inverkehrbringen obigen Bauteils bei Übereinstimmung der Bauausführung mit den geprüften Unterlagen bis 2023-09-27 (Einsatz unter Beachtung der geprüften Betriebsanleitung).

Köln, 2018-09-28


Dipl.-Ing. Georg Theisen
Tel. +49 221 806 - 2452

TÜV Rheinland Zertifizierungsstelle
für Aufzüge und deren Sicherheitsbauteile der TÜV Rheinland Industrie Service GmbH

Notifiziert unter Nr. 0035

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

www.tuv.com

 **TÜVRheinland®**
Genau. Richtig.