Certificate

on a Voluntary Type Examination

Registration No. **01/208/FB/18/7065Ae1**

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

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

that the product

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.

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

Document(s) forming the basis for the examination
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

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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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Annex to Voluntary Type Examination Certificate
Registration No.: 01/208/FB/18/7065Ae1

Intended use:

The car apron is in principle suitable for use in all lifts in accordance with DIN EN 81-20 and DIN EN 81-21. When extended, it meets the requirements detailed in 5.4.5 of DIN EN 81-20 and in 5.8 of DIN EN 81-21.

The apron may be used also in wells whose pit depth is reduced and so deviates from DIN EN 81-20.

It is up to the installer to determine the minimum pit depth required on a case-by-case basis.

The car apron is suitable for:

- unidirectionally opening sliding doors
- centrally opening sliding doors
- hinged doors in combination with a car door

The car apron is not suitable for use in lifts with control of docking operations.

Description:

- The car apron in question is a telescopic apron consisting of one fixed and three movable parts.
- The overall length of the first fixed sheet metal part is 231 mm. It is extended in addition by the chamfer of the additional adjoining sheets so that the overall length, when retracted, is 265 mm.
- When extended, the apron is 750 mm in length, plus the chamfer referred to in 5.4.5.1 of DIN EN 81-20.
- TekoS-265 mm is provided with an electric safety contact designed to monitor the retracted position of the apron. Even a minor extension of the apron causes the fail-safe circuit to break to prevent the car from starting up.
- TekoS-265 mm is always unlocked with the aid of a triangle.
- The apron, when extended, locks mechanically. With that, the locked condition can be brought about solely from within the pit.

Particular conditions:

- As soon as it has been installed, the extendable telescopic apron shall be tested for proper functioning. The results of the test are to be documented in the examination and maintenance register. This applies to corrective maintenance or repair work as well.
- The extendable telescopic apron shall be maintained every 6 months as a minimum. The mechanical parts shall be checked for proper functioning.
- The door of the car needs to be furnished with a locking device. Otherwise another equivalent means is to be provided to ensure an adequate level of safety.
- A directional electric safety device (5.11.2 of DIN EN 81-20) shall prevent movement in downward direction by means of control of inspection operation and control of emergency electrical operation in the area where a non-retracted car apron may collide with the bottom of the pit.
- The requirements of 5.2.5.8.2 of DIN EN 81-20 (reduction of distance to bottom of the pit to 100 mm if depth to the wall of the well < 150 mm) are to be complied with.
- Prior to assembly care must be taken to ensure that the door sill grooves are free from any holes which might be accountable for damage to the mechanical parts of the apron due to the ingress of dirt and water.
- If the TekoS-265 mm car apron is used, action must be taken to ensure that when the doors open early, the levelling zone must be adjusted such that there will be no clearance underneath the fixed part of the car apron when the doors begin to open.
- A pictogram is to be attached to the triangular locking device of the apron. This pictogram shall direct the passengers' attention to the fact that an extendable telescopic apron is activated after the landing door has opened. The pictogram shown in the Instruction Manual shall be attached to the apron at least in a place (to the side of the upper section/in the centre) which is the first to become visible after the landing door has opened.
- In the lower section of the apron a sign shall be affixed directing the passengers' attention to the fact that the command for the apron to recede comes from within the pit (pictogram in accordance with the Instruction Manual).

- In the machine room abbreviated instructions are to be displayed which clearly point to the need for extending the apron in case of an emergency release. Next to the instructions an unlocking triangle in accordance with 5.3.9.3.1 of DIN EN 81-20 is to be held available.
- In the pit a warning sign (pictogram in accordance with the Instruction Manual) has to be attached.

Cologne, 2018-09-28

Georg Theisen
Head of the Certification Body for Lifts
and their Safety Components,
notified under No. 0035