

EC TYPE-EXAMINATION CERTIFICATE

According to Annex V, Part A of 95/16/EC Directive

Certificate No.: ABFV 569/4

Certification Body TÜV SÜD Industrie Service GmbH

of the Notified Body: Westendstr. 199

80686 Munich – Germany Identification No. 0036

Certificate Holder: INVENTIO AG

Seestrasse 55

6052 Hergiswil - Switzerland

ManufacturerSchindler Drive Systemsof the Test Sample:Poligono "Empresarium"

(Manufacturer of Serial Production - Albardin, 58

see Enclosure) 50720 La Cartuja Baja - Zaragoza – Spain

Product: Progressive safety gear and braking device as

part of the protection device against overspeed

for car moving in upwards direction

Type: SA GED 15

ID-Nr.: 59344550

Directive: 95/16/EC

Reference Standards: EN 81-20:2014

EN 81-50:2014

EN 81-1:1998+A3:2009 EN 81-2:1998+A3:2009

Test report: ABFV 569/4 of 2015-08-10

Outcome: The safety component conforms to the essential

health and safety requirements of the mentioned Directive as long as the requirements of the

ndustrie Service

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annex of this certificate are kept.

Date of Issue: 2015-08-12

Werner Rau

Certification Body "lifts and cranes"

Annex to the EC type-examination certificate no. ABFV 569/4 dated 2015-08-12



1 Scope of application

1.1 General

All following application possibilities refer to a brand-new pair of safety gear, depending on manufacturing method, condition running surface of guide rail and tripping speeds. The safety device can fulfil two security features according 1.2 and 1.3.

Guide rails to be used

25 mm

Minimum running surface width Blade width

8 – 16 mm

1.2 Using as a progressive safety gear (working in down direction) - Permissible total mass of car plus rated load and rated speed

Guide rail manufactured by	Condition of the running surface	Max. rated speed [m/s]	Max. tripping speed [m/s]	Total mass [kg] min. – max.
machined	dry	2.23 – 2.52	2.90	557 – 1749
	oiled*	2.23 – 2.52	2.90	525 – 1860

^{*}HLP – oils according DIN 51524, part 2 or oils with comparable characteristics

1.3 Using as a brake device – Part of protection device against overspeed for car moving in upwards direction (working in up direction) - Permissible brake forces

Guide rail manufactured by	Condition of the running surface	Max. tripping speed [m/s]	Brake force [N] min. – max.
machined	dry	2.90	3660 – 7535
	oiled*	2.90	2462 – 11497

^{*}HLP - oils according DIN 51524, part 2 or oils with comparable characteristics

2 Conditions

- 2.1 The above mentioned safety component represents only part of a protection device against overspeed for car moving in upwards direction. Only in combination with a detecting and triggering component (two separate components also possible), which must be subjected to an own type examination, can the system created fulfil the requirements of the protection device.
- 2.2 The forces acting on the guide rails must be safely absorbed.
- 2.3 The dimension configuration of the lift system must be designed as regards the total mass and brake forces in such a way, that the permissible value of deceleration according norm EN 81-20 does not exceed (e.g. empty lift car travelling in upwards direction is not decelerated by more than 1 g_n).
- 2.4 For identification and information about the principal construction and operation and for demarcation of the examined and approved sample the identification drawing M _ _ 43200031 with certification stamp dated 2015-08-12 has to be enclosed to the EC type-examination certificate and its annex.
- 2.5 The EC type-examination certificate may only be used in connection with the pertinent annex and the enclosure (list of the manufacturers serial production). This enclosure shall be updated and re-edited following information of the certificate holder.

Note: The English text is a translation of the German original. In case of any discrepancy, the German version is valid only.

Annex to the EC type-examination certificate no. ABFV 569/4 dated 2015-08-12



3 Remarks

- 3.1 Due to the characteristics, the braking force for the progressive safety gear acting downwards and the braking force for the brake device acting upwards are permanently related to each other. They cannot be adjusted separately in principle. The permissible total mass stated in scope of application thus also is permanently related to the permissible braking force.
- 3.2 Pursuant to the standard EN 81-50:2014, paragraph 5.3.4, the total mass of the progressive safety gear determined for adjustment purposes may be 7.5 % higher or lower.
- 3.3 The progressive safety gear based on permissible total mass according table point 1.2 of this type examination certificate can also be used till maximum permissible tripping speed by the counterweight.
- 3.4 This EC type-examination certificate is based modelled after and /or harmonized standards as following:
 - EN 81-1:1998 + A3:2009 (D), Anhang F.3 and F.7
 - EN 81-2:1998 + A3:2009 (D), Anhang F.3
 - EN 81-20:2014 (D), Punkt 5.6.2.1.1.2 and 5.6.6.11
 - EN 81-50:2014 (D), Punkt 5.3 and 5.7
- 3.5 Changes resp. extensions of the upper mentioned standards or a further development of the state of the art may make a revision of this EC type-examination certificate necessary

Enclosure of EC type-examination certificate no. ABFV 569/4 dated 2015-08-12



Manufacturer serial production - production sites (Stated: 2015-08-12):

Company Schindler Drive Systems Address Poligono "Empresarium"

Albardin 58

50720 La Cartuja Baja - Zaragoza - Spain

Company Schindler (China) Elevator Co. Ltd.

Address No. 818 Jin Men Road

215004 Suzhou - P.R. China

Company Elevadores Atlas Schindler S. A. Address R. Angelina Ricci Vezozzo, 3400

86087 Londrina - Brasil

- ENDE DOKUMENT -

Base: Letter of SCHINDLER Aufzüge AG dated 07.08.2015

