

EC type-examination certificate

Certificate no.:

ABFV 569/2

Notified body:

TÜV SÜD Industrie Service GmbH

Zertifizierungsstelle für Aufzüge und Sicherheitsbauteile

Westendstrasse 199 D-80686 München

Applicant/

Certificate holder:

Inventio AG

Seestrasse 55 CH-6052 Hergiswil

Date of submission:

2008-06-03

Accredited manufacturer Schindler Drive Systems

of the holding:

Poligono "Empresarium"

Albardin, 58

ES-50720 La Cartuja Baja - Zaragoza

Suzhou Schindler Elevator Co. Ltd.

818 Jin Men Road CN-Suzhou 215004

Elevadores Atlas Schindler S. A. R. Angelina Ricci Vezozzo, 3400 BR-86087 - Londrina - PR

Product:

Progressive safety gear with braking device as part of the protection device against overspeed for car moving in up-

wards direction

Type:

SA GED 15

Test laboratory:

TÜV SÜD Industrie Service GmbH

Abteilung Aufzüge und Sicherheitsbauteile

Westendstrasse 199 D-80686 München

Date and number of test report:

2009-03-30

569/2

EC-Directive:

95 / 16 / EC

Statement:

The safety component conforms to the directive's essential safety requirements for the respective scope of application

stated on page 1 of the annex to this EC type-examination

enannte Stelle

certificate

Certificate date:

2009-03-31

engsstelle für Aufzüge und Sichen Schlie Senige Schlie Zertifizierungsstelle für Aufzüge und Sicherheitsbauteile

Siegfried Melzer





Annex to the EC type-examination certificate no. ABFV 569/2 dated 2009-03-31

1. Scope of Application

1.1 Progressive safety gear (acting downwards)

Permissible total mass of car and rated load or counterweight in using one pair of safety gears, depends on manufacture and condition of the guide rail running surface

Condition of the running surface	Total mass (kg)
	min. max.
dry	557 - 1749
oiled*	525 - 1860

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

1.2 Braking device (acting upwards)

Permissible brake force when using the braking devices in twos, depends on the condition of the guide rail running surface

Condition of the running surface	Brake force (N) min. max.
dry	3660 - 7535
oiled*	2462 - 11497

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

- 1.3 Maximum tripping speed of overspeed governor and range of the maximum rated speed
- 1.3.1 Maximum tripping speed

2,90 m/s 2,23 - 2,52 m/s

- 1.3.2 Maximum rated speed
- 1.4 Guide rails to be used

1.4.1 Manufactured by

machined

1.4.2 Minimum running surface width

25 mm

1.4.3 Blade width

8 - 16 mm

2. Conditions for the braking device

- 2.1 Since the braking device represents only the decelerating element of the protection device against overspeed for the car moving upwards direction against overspeed, the speed monitoring element for upwards direction must be an overspeed governor which also retracts the brake device as per EN 81-1, section 9.9.
- 2.2 The forces acting in upwards direction on the guide rails must be safely absorbed (e. g. without shifting the guide rails in upwards direction).

3. Remarks

- 3.1 Due to the characteristics, the brake force for the safety gear acting downwards and the brake force for the braking device acting upwards are permanently related to each other. They cannot be adjusted separately in principle. The permissible total mass stated in 1.1 thus also is permanently related to the permissible brake force as defined in 1.2.
- 3.2 The permissible brake forces must be applied to the lift system in such a manner, that the empty car travelling in an upwards direction is not decelerated by more than 1g.
- 3.3 Pursuant to the standard EN 81, annex F, paragraph 3, section 3.4. a) 2) the total mass determined for adjustment purposes may be 7.5 % higher or lower.
- In order to provide identification and information about the basic design and it's functioning and to show the environmental conditions and connection requirements pertaining to the tested and approved type, and to define which parts have been tested, drawing No. M 43200031 with revision state Ae4 is to be enclosed with the EC type-examination certificate and the annex thereto.
- 3.5 The EC type-examination certificate may only be used in connection with the pertinent annex.

