

CERTIFICAT

CERTIFICADO

EPFITRAT

認証証書

CERTIFICATE

ZERTIFIKAT

# EC type-examination certificate



**Certificate no.:** ABFV 569

**Notified body:** TÜV Süddeutschland Bau und Betrieb GmbH  
Zertifizierungsstelle  
für Aufzüge und Sicherheitsbauteile  
Westendstraße 199, D-80686 München

**Applicant/  
Certificate holder:** Schindler Lifts Ltd.  
Corporate Research & Development  
CH-6031 Ebikon

**Date of submission:** 2000-10-25

**Manufacturer:** Schindler Drive Systems  
San Joaquin 15  
E-50013 Zaragoza

**Product, type:** Progressive safety gear with braking device as part of  
the protection device against overspeed for the car  
moving in upwards direction, type GED 15

**Test Laboratory:** TÜV Süddeutschland Bau und Betrieb GmbH  
Abteilung Aufzüge und Sicherheitsbauteile  
Westendstraße 199, D-80686 München

**Date and  
Number of test report:** 2001-02-26  
569

**EC-directive:** 95 / 16 / EC

**Statement:** The safety component conforms to the directive's  
safety requirements for the respective scope of  
application stated on page 1 of the annex to this EC  
type-examination certificate.

**Certificate date:** 2001-02-26

Zertifizierungsstelle für Aufzüge und Sicherheitsbauteile  
EC-Identification number: 0036

A handwritten signature in black ink, appearing to read 'P. Tkalec'.

Peter Tkalec

## Annex to the EC type-examination certificate No. ABFV 569

### 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

1.3.2 Maximum rated speed 2,23 - 2,52 m/s

#### 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.

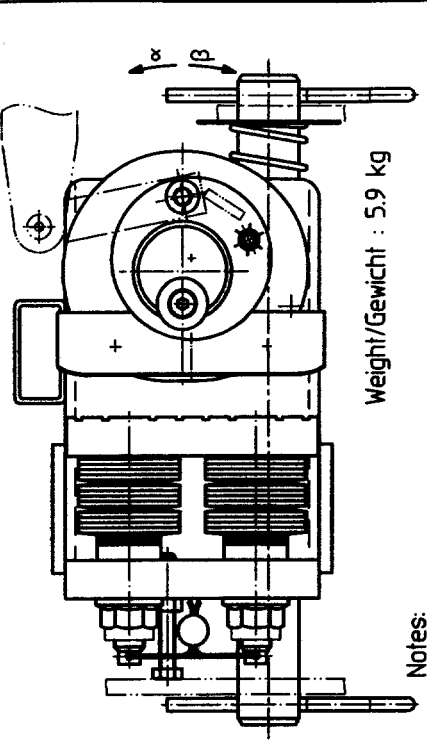
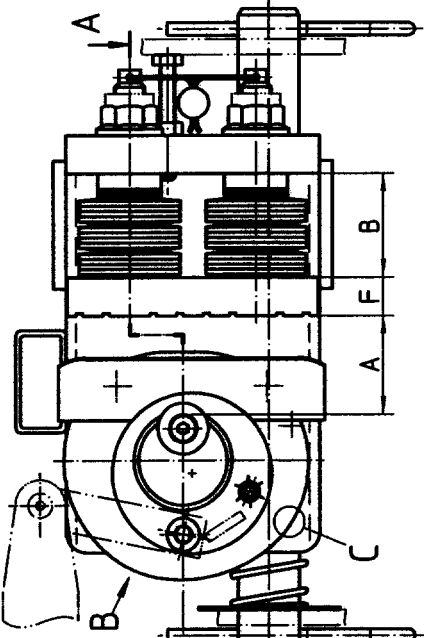
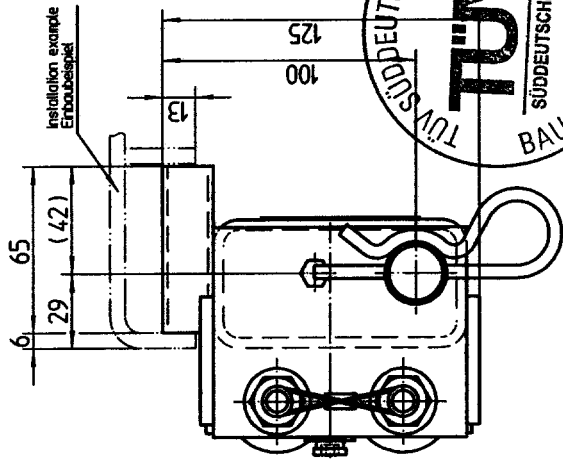
3.3 Pursuant to the standard EN 81, annex F, paragraph 3, section 3.4. a) 2) the total mass determined for adjustment purposes may be 7,5% higher or lower.

3.4 In order to provide identification and information about the basic design and its 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 43 200 031 dated 25 January 2001/Ae 1 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.

**Safety gear GED15 left**  
Fangvorrichtung GED15 links

**Safety gear GED15 right**  
Fangvorrichtung GED15 rechts



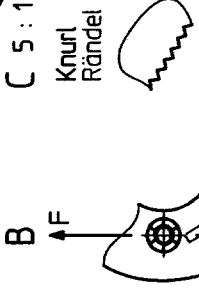
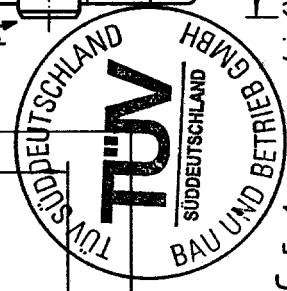
Weight/Gewicht : 5.9 kg

**Notes:**

- The GED15 works in up direction and down direction.
- Actuating force  $F = 60$  N for 1 pair GED15 (without retaining spring) according to Detail B
- $\alpha$  Rotation angle for up direction
- $\alpha \sim 45^\circ$  Contact of the braking elements with the guide rail
- $\alpha \sim 150^\circ$  Brake position (maximum rotation angle)
- $\beta$  Rotation angle for down direction
- $\beta \sim 45^\circ$  Contact of the braking elements with the guide rail
- $\beta \sim 105^\circ$  Brake position (maximum rotation angle)
- Drawn version GED15/BS with BFK10 (F=15)

**Hinweise:**

- Die GED15 funktioniert in Aufwärts- und Abwärtsrichtung.
- Betätigungskraft  $F=60$  N für 1 Paar GED15 (ohne Rückhaltefeder) gemäss Detail B
- $\alpha$  Drehwinkel für die Aufwärtsrichtung
- $\alpha \sim 45^\circ$  Kontakt der Bremsenlemente mit der T-Schiene
- $\alpha \sim 150^\circ$  Bremsstellung (maximaler Drehwinkel)
- $\beta$  Drehwinkel für die Abwärtsrichtung
- $\beta \sim 45^\circ$  Kontakt der Bremsenlemente mit der T-Schiene
- $\beta \sim 105^\circ$  Bremsstellung (maximaler Drehwinkel)
- Gezeichnet Ausführung GED15/BS mit BFK10 (F=15)



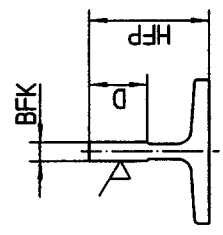
12.6. FEB. 2001

**- GEPRÜFT -**  
TUV Süddeutschland Bau und Betrieb GmbH  
Abteilung Aufzüge- und Sicherheitsbauteile  
Westendstr. 199, D 80686 München  
Der Sachverständige  
*[Signature]*

ISO 7465 for surface, manufacture and material quality  
ISO 7465 für Material- und Bearbeitungsqualität

Examples : Beispiele:

T89	16	62	45.0	36.5	35.0	33.4	6.0	13
T75-3	10	62	39.0	42.5	35.0	30.0	6.0	13
T75-3	10	62	39.0	40.5	35.0	30.0	6.0	15
T82	9	68	38.0	41.5	37.5	25.4	8.5	15
T70-2	8	70	37.0	42.5	35.0	62.0	6.0	15
Type	BFK	HFP	A	B	C	D	E	F



Modification	Ae 0	Ae 1			
KA No.	65262	65274			
Date	2000-12-20	2001-01-26			
Macrofiled					

**Safety Component**

**Dimensioned Drawing GED15**  
Identification for EC/Type Exam Certific

INVENTIO AG, CH-6052 Hergiswil  
Archive No. 11540  
Format: A3  
Lead Office: ES2  
M 43200031

Author				
Number				
Version	0			
Date	2001-01-25			
Created				
Checked				
Released				
Scale	1:2			
Replaces / Post				
State drawing				
Created	2001-01-25			
Checked	2001-02-02			
Released	2001-02-02			
Name				
Date				
Language				

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