**EC-Type Examination Certificate** 

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Directive 2006/42/EC of the European Parliament and of the Council on Machinery
No. of EC-Type Examination Certificate: ZP/C028/19 R1
Product: Ladder-guided service lift type TOPlift L+ edition
Manufacturer: Hailo Wind Systems GmbH & Co. KG
Address: Kalteiche-Ring 18, 35708 Haiger, Germany

- (7) The design and construction of this machine and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of DEKRA Testing and Certification GmbH, Notified Body No. 0158 according to Article 14 of Directive 2006/42/EC of the European Parliament and the Council of 17 Mai 2006, certifies that this machine has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of machinery, given in Annex I to the Directive. The examination and test results are recorded in the test and assessment report 20190144 and 20190812.
- (9) The Essential Health and Safety Requirements are assured by compliance with

DIN EN ISO 12100:2011	DIN EN 349:1993 + A1:2008	DIN EN ISO 13857:2008
DIN EN ISO 13849-1:2016	DIN EN 150 13849-2:2013	DIN EN ISO 13850:2016

DIN EN 1808:2015

and under consideration of

DIN EN 81-43:2009

- (10) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 2006/42/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (11) The manufacturer is authorised to apply the CE Marking to the machines that conform to the types examined.
- (12) This EC-Type Examination certificate is valid until 2024-08-29.

DEKRA Testing and Certification GmbH Bochum, 2019-10-28

> signed: Kilisch Managing Director

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

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DEKRA Testing and Certification GmbH, Handwerkstraße 15, 70565 Stuttgart Certification body: Dinnendahlstraße 9, 44809 Bochum Telefon +49.234.3696-400, Fax +49.234.3696-401, DTC-Certification-body@dekra.com T09 0104-3681 Ver 00 - Approved- Exported from DMS: 2021-09-21 by INVOI

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#### (14) EC-Type Examination Certificate ZP/C028/19 R1

(15) 15.1 Subject and Type

Ladder-guided service lift type TOPlift L+ edition

15.2 Description

The ladder-guided service lift is used exclusively for the transport of persons including working material or for the transport of material to the higher workplace inside tower-like enclosed structures.

15.3 Parameters

Fall arrester

Manufacturer:

Type: Year of manufacture: Release speed: Load capacity: Manufacturer wire rope type 1

Manufacturer wire rope type 2:

Rope diameter: Manufacturer wire rope type 3:

Breaking load: Rope diameter:

Wire rope hoist

Manufacturer:

Type: Labelling: Max. operating load: Safeguard: Hailo Windsystems GmbH & Co. KG Kalteiche-Ring 18 35708 Haiger, Germany HWL608CE 07/2018 42 m/min up to 600 kg Pfeifer Drako 5 x 19S SFC 1960 B sZ with blue strand / fibre core, cross/lay/right DWH Drahtseilwerk Hemer 5 x K19S SFC 1960 B sZ Cross section compacted (hammering method) with green strand 8.4 mm DWH Drahtseilwerk Hemer DWH 8,2/5x26WS/SFC 2400 B sZ 56.35 kN 8.2 mm

Hailo Windsystems GmbH & Co. KG Kalteiche-Ring 18 35708 Haiger HW608CE18 Electric wire rope hoist 600 kg Overload limitation

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DEKRA KRA D DEKRA EKRA D DEKRA DEKRA Working speed: Manufacturer wire rope type 1:

Manufacturer wire rope type 2:

Rope diameter: Manufacturer wire rope type 3:

Breaking load: Rope diameter: Electrical power: Rated current: Rated voltage /frequency:

Service lift variant 1 Manufacturer:

#### Type:

Load capacity: Passenger service: Control system: Temperature range at work: Protection class: Measurements (corpus): Min. space required to drive through the cabin at the platform: Dimensioning of the suspension structure:

### Service lift variant 2

Manufacturer:

Type: Load capacity: Passenger service: Control system: Temperature range at work:

50/60 Hz 18/22 m/min Pfeifer Drako 5 x 19S SFC 1960 B sZ with blue strand / fibre core, cross lay right **DWH Drahtseilwerk Hemer** 5 x K19S SFC 1960 B sZ Cross section compacted (hammering method) with green strand 8.4 mm **DWH Drahtseilwerk Hemer** DWH 8,2 5x26WS SFC 2400 B sZ 56.35 kN 8.4 mm 2.2 kW 4.5 A 400 V AC / 50/60 Hz

Hailo Windsystems GmbH & Co. KG Kalteiche-Ring 18 35708 Haiger, Germany TOPlift L3+ edition 300 kg max. 3 persons by push-button on/in cabin -20°C/to +50°C 1P/54 2790 x 1200 x 962 mm 1300 mm/x 1080 mm

27 kN

Hailo Windsystems GmbH & Co. KG Kalteiche-Ring 18 35708 Haiger, Germany TOPlift L2+ edition 250 kg max. 2 persons by push-button on/in cabin -20°C to +50°C

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Protection class:	IP 54				
Measurements (corpus):	2790 x 800 x 962 mm				
Min. space required to drive through the cabin at	930 mm x 1080 mm				
the platform:					
Dimensioning of the suspension structure:	27 kN				
Service lift variant 3					
Manufacturer:	Hailo Windsystems GmbH & Co. KG				
	Kalteiche-Ring 18				
	35708 Haiger, Germany				
Туре:	TOPlift L1+ edition				
Load capacity:	250 kg				
Passenger service:	max. 2 persons				
Control system:	by push-button on/in cabin				
Temperature range at work:	-20°C to +50°C				
Protection class:	1P 54				
Measurements (corpus):	2790 x 950 x 962 mm				
Min. space required to drive through the cabin at	1080 mm x 1080 mm				
the platform:					
Dimensioning of the suspension structure:	/27/kN				

#### (16) 20190144, 30.08.2019 20190812, 25.10.2019

#### (17) Special Conditions for Safe Use

The service lift may only be placed on the market with valid certificates for the fall arrester (certificate number ZP/C035/16) and the wire rope hoist (certificate number ZP/C034/16).

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Original Instruction: T09 0104-3681 VER 00

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## VESTAS PROPRIETARY NOTICE

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