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Industrie Service

TYPE-EXAMINATION CERTIFICATE

Certificate No.:	G 589/2
Certificate Holder:	Label S.p.A. Via Ilariuzzi 17/A S. Pancrazio P.se 43126 Parma - Italy
Manufacturer:	Label S.p.A. Via Ilariuzzi 17/A S. Pancrazio P.se 43126 Parma - Italy
Product:	Automatic sliding doors (with break-out fittings) in rescue ways, "EVOLUS" and "ETERNA" series
Test laboratory:	TÜV SÜD Industrie Service GmbH Abteilung Aufzüge und Sicherheitsbauteile Gottlieb-Daimler-Str. 7 70794 Filderstadt - Germany
Test Report:	G 589/2 dated 2018-12-12
Reference Standards:	AutSchR:Dez 1997 Directive for automatic sliding doors on escape and rescue routes EltVTR:Dez 1997 Directive on electric locking systems for doors on escape and rescue routes DIN 18650-1:2010-02 Powered pedestrian doors - Part 1: Product requirements and test methods DIN 18650-2:2010-02 Powered pedestrian doors - Part 2: Safety at powered pedestrian doors DIN EN 16005:2013 Power operated pedestrian doorsets – Safety in use – Requirements and test methods
Outcome:	The swing-out sliding doors with "EVOLUS" and "ETERNA" drive system, meet the requirements of the test specifications for the respective scope of application stated in the annex to this type examination certificate. The conditions mentioned in the annex have to be observed.
Date of Issue:	2018-12-12
Validity until:	2023-12-11

Department Lifts and Safety Components

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1 Scope of application

Swing-out (break out) sliding doors with one door wing or two door wings (DIN EN 16005 figure B.1 or B.2) for rescue ways with a single-channel "EVOLUS" and "ETERNA" drive system for each door, with the following 2 variant types:

Drive system	Maximum door-wing weight in case of one wing	Maximum door-wing in case of two wings
EVOLUS 90 T	130 kg	2x 90 kg
EVOLUS 150 T	200 kg	2x 150 kg
ETERNA 90	130 kg	2x 90 kg
ETERNA 150	200 kg	2x 150 kg

A pulsed photoelectric barrier, whose pulse pattern is monitored permanently, disconnects the supply to the drive unit, as long as a door wing is in swing-out position.

The following protective devices according to DIN EN 16005 number 4.6.8, which are tested before any movement, up to now have been proved to be suitable (within the limits of the application which are given in their data sheets) with regard to the "EVOLUS" and "ETERNA" drive system:

- BEA IXIO DT1 (adjustment period 15 s / 30 s / 1 min / 2 min / 5 min / 10 min / 20 min / 60 min / unlimited; 15 s shall not be set!)
- BEA IXIO ST (adjustment period 15 s / 30 s / 1 min / 2 min / 5 min / 10 min / 20 min / 60 min / unlimited; 15 s shall not be set!)
- OPTEX OA-AXIS T (adjustment period 15 s / 60 s / 180 s / unlimited; 15 s shall not be set!)
- OPTEX OA-PRESENCE T (adjustment period 30 s / 60 s / 180 s / unlimited)
- OPTEX OAM-DUAL T (adjustment period 30 s / 60 s / 180 s / 600 s; see below in 2.5)

Protective devices with a pulsed output signal (without an input for a testing by the control system of the door), with regard to the "EVOLUS" and "ETERNA" drive system are not suitable.

Approved Break-Out component-assemblies:

KBRAM1 = 1 door wing with Break-Out fittings, aluminium

KBRAM1A = 1 door wing with Break-Out fittings, with silver anodized aluminium

KBRAM2 = 2 door wings with Break-Out fittings, aluminium

KBRAM2A = 2 door wings with Break-Out fittings, with silver anodized aluminium

KBRINT1 = 1 door wing with Break-Out fittings + 1 side panel with Break-Out fittings, aluminium

KBRINT1A = 1 door wing with Break-Out fittings + 1 side panel with Break-Out fittings, with silver anodized aluminium

KBRINT2 = 2 door wings with Break-Out fittings + 2 side panels with Break-Out fittings, aluminium

KBRINT2A = 2 door wings with Break-Out fittings + 2 side panels with Break-Out fittings, with silver anodized aluminium

2 Conditions

2.1 The installation of the "EVOLUS" and "ETERNA" sliding-door drive-system is only to be carried out by means of a specialist´s company entitled by the manufacturer and following the instructions for installation.

2.2 Installation only in places sheltered from weather (the degree of protection of the drive system is IP 22).

2.3 Use in escape- and rescue ways, only if the sliding door – with at most 220 N, can be pushed open manually in escape direction.

2.4 Risk of crushing, shearing and retracting must be avoided by keeping safety distances (e. g. gap ≤ 8 mm, see DIN 18650-2:2010 number 4.4.1 and DIN EN 16005 number 4.6.11) or by safety devices according to DIN EN 16005 number 4.6.8.

2.5 For each installed door system, the installer has to carry out a risk assessment, taking into account the environmental influences. For the case, that a big part of the users are elderly or weak people or persons with handicaps, and little children, then according to DIN EN 16005 number 4.6.2.1 and number 4.6.2.2 any contact between user and door is unacceptable. Then non-contact sensing safety devices are necessary, which do detect persons without any time restrictions, even after interruption of the power supply. (Not OPTEX OAM-DUAL T).

2.6 A valid inspection-verification (e.g. certificate or test report) with regard to the installed safety devices (test specifications: DIN 18650-1:2010 number 5.7.4 and annex C or DIN EN 16005 number 4.6.8 and annex C) is presupposed.

Additionally has to be respected:

- The relation between height and width of a door wing must be less than 5:1.
- The "maximum weight of the door wing" which is listed above in 1, shall not be exceeded.
- If there is intended a door height of more than 3000 mm a special permission has to be applied via the producer.

2.7 If the "EVOLUS" and "ETERNA" drive system is used without protective devices according to DIN EN 16005 number 4.6.8 (dependent on the risk assessment for the respective place of installation), the requirements according to DIN EN 16005 number 4.6.2.1 with regard to the procedure "opening of the door" and the requirements according to DIN EN 16005 number 4.6.2.2 with regard to the procedure "closing of the door" have to be met (e. g. limitation of the speeds according to DIN EN 16005 table F.2, depending on the mass of the door wing, as well as the compliance with the requirements of DIN EN 16005 number 4.6.4).

2.8 The limitation of the door wing forces according to DIN EN 16005 number 4.6.7.2 or number 4.6.4 when opening the door and according to DIN EN 16005 number 4.6.4 when closing the door - must be verified for each installation before putting into service and later on at regular intervals appropriate to the operation of the door. If non-contact sensing safety devices exist, these door wing forces may be zero, or according to DIN EN 16005 number 4.6.8 d) they may occur only after more than 30 seconds.

2.9 Every delivery of a "EVOLUS" and "ETERNA" door drive system has to be accompanied by:

- The instructions for installations (Installation Manual) and the instructions for use (User Manual)
- A manufacturer's declaration that agreement with the test pattern introduced for examination is given

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3 Notices

3.1 The electronic control system of the “EVOLUS” and “ETERNA” drive system meets category 2 and PL d according to EN ISO 13849-1.

3.2 An endurance test with more than 1.000.000 cycles has been carried out.

3.3 The essential product-relevant provisions of the standards DIN 18650-1:2010 and DIN 18650-2:2010 have been considered within this certification (application class 1 in rescue ways with swing-out fittings according to DIN 18650-1:2010 number 4.7).

3.4 Further requirements of the responsible authorities for buildings are not touched.

3.5 Issuing the EU declaration of conformity resp. fixing of the CE-mark in conformity with the Directive relating to machinery is under responsibility of the installer of the whole system "automatic sliding door" in consideration of the situation of each single door system (situation of the building, surrounding).

3.6 The type examination certificate G 589/2 is only to be passed on together with this annex.