

# TYPE EXAMINATION CERTIFICATE FOR LIFTCOMPONENTS

Issued by Liftinstituut B.V.

Certificate no. : NL15-400-1002-110-09 Revision no.: 1

Description of the product : 2-panel, telescopic sliding landing door subjected to soft pendulum shock test

Trademark : PROLIFT

Type no. : PRL01-C150

Name and address of the manufacturer : PROLIFT  
Buyuk balıklı mah. Buyuk balıklı cad. No:157\A – 157\B  
Nilufer Bursa Turkey

Name and address of the certificate holder : PROLIFT  
Buyuk balıklı mah. Buyuk balıklı cad. No:157\A – 157\B  
Nilufer Bursa Turkey

Certificate issued on the following requirements : Lifts Directive 2014/33/EU

Certificate based on the following standard : Parts of:  
EN 81-20:2014  
EN 81-50:2014

Test laboratory : None

Date and number of the laboratory report : None

Date of type examination : 20-03-2020

Additional document with this certificate : Report belonging to the type-examination certificate  
nr.: NL15-400-1002-110-09 rev. 1

Additional remarks : None

Conclusion : The lift component meets the requirements referred to in this certificate taking into account any additional remarks mentioned above.

Amsterdam

Date : 20-03-2020  
Valid until : 20-03-2025

ing. P.J. Peeters  
Manager Certification

Certification decision by



## Report type-examination

Report belonging to type-examination : NL15-400-1002-110-09 rev.1  
 certificate number

Date of issue of original certificate : 23-03-2015

Certificate applies to : Component

Revision number/date : 1 / 20-03-2020

Requirements : Lifts Directive 2014/33/EU  
 Standard(s): EN 81-20:2014  
 EN 81-50:2014

Project number : P200029

### 1. General specifications

Description of the product : 2-panel, telescopic sliding landing door  
 subjected to soft pendulum shock test

Trademark : PROLIFT

Type no. : PRL01-C150

Name and address of the manufacturer : PROLIFT  
 Büyük balıklı mah.  
 Büyük balıklı cad. No:157\A – 157\B  
 Nilufer Bursa Turkey

Laboratory : None

Address of examined component : Gedikkaya Mah. Sanayi Sitesi 25  
 Nolu Sk. No: 29  
 Giresun: TURKEY

Data of examination : 28-02-2015, 19-03-2020

Examination performed by : H. Kramer, A. Santoe

## 2. Description component

A 2-panel, telescopic sliding landing door is subjected to a soft pendulum shock test to observe if it meets the criteria of chapter 5.3.5.3, EN 81-20:2014 (Annex 2). This door is of fully enclosed steel. Each panel of this sliding door has the maximum dimensions of 728 x 2005 mm (width x height) and is reinforced in the middle. The thickness of this panel is at least 1 mm (Annex 1). The guiding of each panel is achieved by a guiding rail and guiding rollers at the top and at the bottom by two guide shoes in the landing sill.

Two separate steel retainers are adjacent to these guiding rollers and two separate steel retainers are implemented in the guide shoes. In case of damages or wear out of the plastic guiding components, these metal retainers will still keep the door panels in its guiding profiles.

These retainers are attached by means of a metal corner profile which is welded and riveted at the door panel edge (Annex 3).

This panel is part of the landing door type PRL01-C150, and comprises the biggest unsupported area of this panel at the inside.

## 3. Examinations and tests

The examination covered a check whether compliance with the Lift Directive 2014/33/EU is met and based on the harmonized product standards EN 81-20:2014 and EN 81-50:2014.

The examination included:

- Examination of the technical file (Annex 4)
- Examination of the representative model in order to establish conformity with the technical file.
- Inspections and tests to check compliance with the requirements of:
  1. chapter 5.3.5.3; EN 81-20:2014
  2. chapter 5.14; EN 81-50:2014

For this soft pendulum shock test (Annex 2), the rig falling height was determined at 800 mm to achieve the required equivalent impact energy. The striking point at the landing side was determined at the middle of this panel located at 1,0 m  $\pm$  0,10 m height (according to table 5 EN 81-20:2014).

Both the front and rear panel of the landing door were subjected only one time to a soft pendulum shock test.

According to chapter 5.14.2.5.1 of the EN 81-50:2014 the test samples were fixed to the test frame. As a result of this test no deformations under test conditions were observed at the fixation points.

## 4. Results

After the final examination the product and the technical file were found in accordance with the requirements. The functional tests passed without remarks. The load tests passed without remarks and did not lead to permanent deformations or loss of stability.

The rear, boxed panel had no significant damages.

The reinforced, front panel is considered as the worst case and evaluated with this soft pendulum shock test.

### 4.1 Measurements

#### Mechanical strength measurements

Chapter EN81-20	Description	Results
5.3.5.3.1	<p>Complete landing doors, with their locks, and car doors shall have a mechanical strength such that in the locked position of landing doors and closed position of car doors:</p> <p>a) when a static force of 300 N, being evenly distributed over an area of 5 cm<sup>2</sup> in round or square section, is applied at right angles to the panel/frame at any point on either face they shall resist without:</p> <p>1) permanent deformation greater than 1 mm;</p> <p>2) elastic deformation greater than 15 mm; After such a test the safety function of the door shall not be affected.</p> <p>b) when a static force of 1000 N, being evenly distributed over an area of 100 cm<sup>2</sup> in round or square section, is applied at right angles at any point of the panel or frame from the landing side for landing doors or from the inside of the car for car doors they shall resist without significant permanent deformation affecting functionality and safety (5.3.1.4 [max. clearance 10 mm] and 5.3.9.1).</p>	<p>passed</p> <p>passed: 9 mm</p> <p>passed 9 mm</p>
5.3.5.3.3	<p>Under the application of a manual force of 150 N in the direction of the opening of the leading landing door panel(s) of horizontally sliding doors and folding doors, at the most unfavorable point, the clearances defined in 5.3.1 may exceed 6 mm, but they shall not exceed:</p> <p>a) 30 mm for side opening doors;</p>	<p>passed 28 mm</p>

### Soft Pendulum Shock Test

Chapter EN81-20	Description	Results
5.3.5.3.2	Horizontal sliding landing and car doors shall be provided with devices for retaining the door panel(s) in position should the guiding element fixed to the door panel fail. All door panels with these devices installed in their complete door assembly with these devices shall withstand a pendulum shock test as specified in 5.3.5.3.4 a) at striking points according to Table 5 and Figure 11 under the worst possible failure condition of the normal guiding elements.	passed
Chapter EN81-50	Description	Results
5.14.4	Interpretation of the results Checks shall be carried out after the test according to the standard calling for this test for the following: a) loss of integrity; b) permanent deformation; c) cracks or chips.	passed passed passed; no cracks or chips

## 5. Conditions

On the type-examination certificate the following conditions apply:

- Maximum door panel dimensions: 2005 x 728 x 1 mm (height x width x thickness).
- Each door panel is reinforced in the middle.
- The landing door sill shall withstand at any time all forces related to this soft pendulum shock test.
- Corner profile attachment of the retainers to door panel should be riveted and welded at the edges.
- Each door panel is equipped with two retainers at the top as a guard in the guiding rail and two retainers at the bottom as a guard in the landing sill.

## 6. Conclusions

Based upon the results of the type-examination Liftinstituut B.V. issues a type-examination certificate.

The type-examination certificate is only valid for products which are in conformity with the same specifications as the type certified product. The type-examination certificate is issued based on the requirements that are valid at the date of issue. In case of changes of the product specifications, changes in the requirements or changes in the state of the art the certificate holder shall request Liftinstituut B.V. to reconsider the validity of the type-examination certificate.

Prepared by:



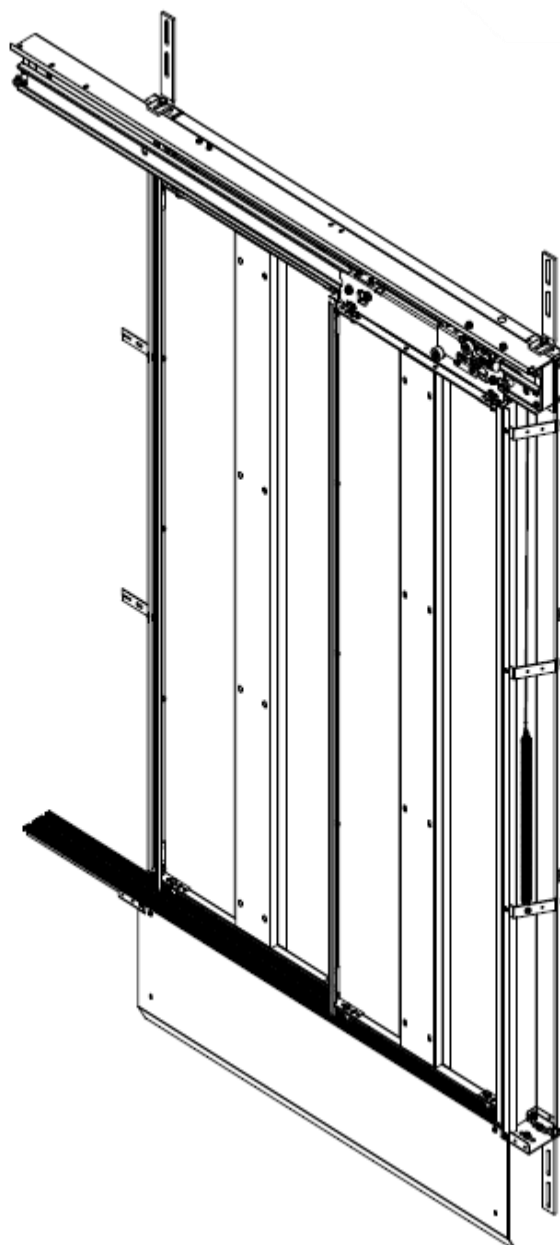
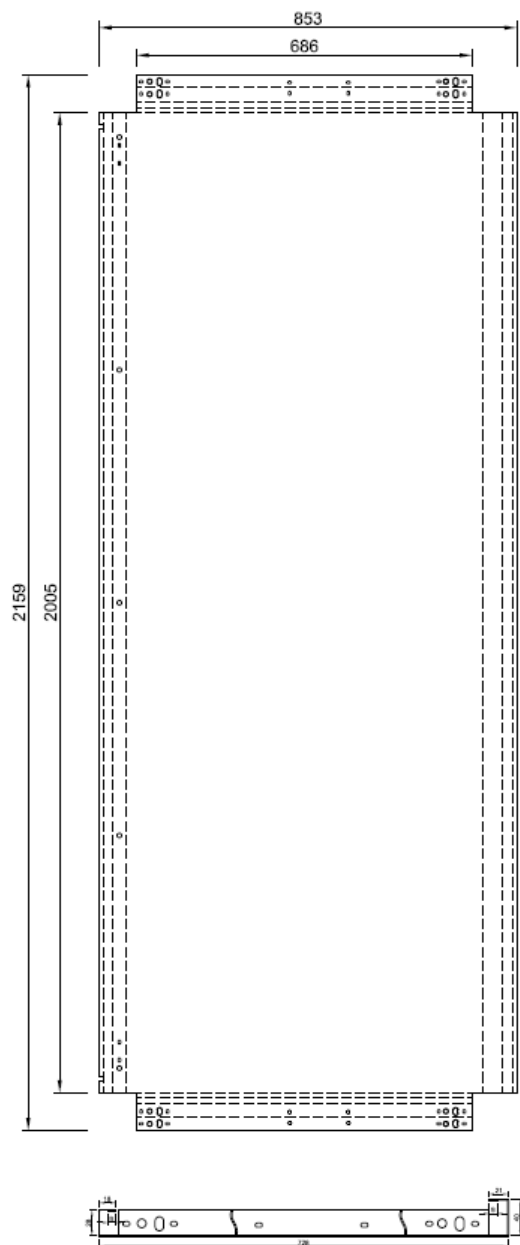
H.D. Kramer  
Product Specialist Certification

Certification decision by:



## Annexes

### Annex 1 : Basic lay-out Landing door panel PRL01-C150



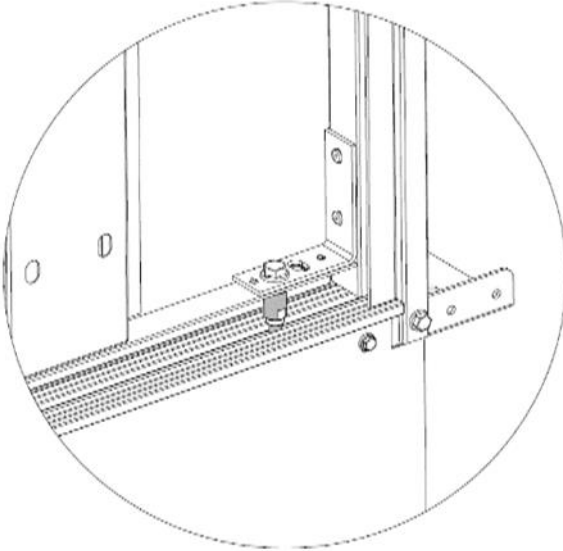
## Annex 2 : Test setup soft pendulum shock test



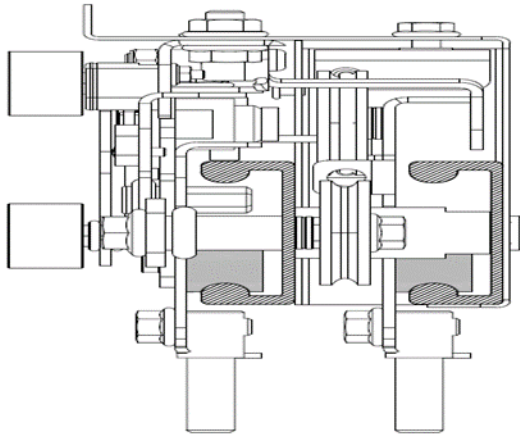


**Annex 3 : Retainers**

Retainer in landing door sill



Retainer in guiding rail



**Annex 4 : Documents of the Technical File which were subject of the examination**

Title	Document number	Date
TEST KAPISI	-	March 2nd, 2015
TEST KAPISI EK ÇİZİMLER	-	March 6th, 2015
SPECIFICATIONS	-	March 18th, 2015
Statement for renewal certification	-	March 9th, 2020

**Annex 5 : Reviewed deviations from the standards**

EN xx-x par.	Requirement	Accepted design
X.X.X	-	-

**Annex 6 : Revision of the certificate and its report**

Rev.:	Date	Summary of revision
-	March 10th, 2015	Original
1	March 19th, 2020	Certificate renewed after 5 years