

TYPE EXAMINATION CERTIFICATE FOR LIFTCOMPONENTS

Issued by Liftinstituut B.V.

Certificate no. : NL18-400-1002-196-07 Revision nr.: -

Description of the product : Foldable balustrade car roof

Trademark, type : Agui, Balustrade for reduced headroom BF100 and BF200

Name and address of the manufacturer : TALLERES AGUI, S.A.
Polígono Industrial Lintzirin-Gaina
Parcela B-1
20180 Oiartzun
Gipuzkoa Spain

Name and address of the certificate holder : TALLERES AGUI, S.A.
Polígono Industrial Lintzirin-Gaina
Parcela B-1
20180 Oiartzun
Gipuzkoa Spain

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

Certificate based on the following standard : Parts of : EN 81-21:2018, EN 81-20:2014

Test laboratory : None

Date and number of the laboratory report : None

Date of type examination : May – July 2018

Additional document with this certificate : Report belonging to the type examination certificate no.: NL18-400-1002-196-07


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 : 24-07-2018
Valid until : 24-07-2023


ing. P.J. Peeters
Manager


Certification decision by

Report type-examination

Report belonging to type-examination : NL18-400-1002-196-07
certificate no.
Date of issue of original certificate : 24-07-2018
Concerns : Component
No. and date of revision : -
Requirements : Lifts Directive 2014/33/EU
Parts of standards:
EN 81-21:2018,
EN 81-20:2014
Project no. : P180167

1. General specifications

Name and address manufacturer : TALLERES AGUI, S.A.
Polígono Industrial Lintzirin-Gaina
Parcela B-1
20180 Oiartzun
Gipuzkoa Spain
Description of component : Foldable balustrade car roof
Type : Balustrade for reduced headroom BF100
and BF200
Laboratory : -
Address of examined component : Polígono Industrial Lintzirin-Gaina
Parcela B-1
20180 Oiartzun
Gipuzkoa Spain
Data of examination : May – July 2018
Examination performed by : E. Verkaik

2. Description component

The Agui foldable balustrades BF100 and BF200 are to be installed on a car roof whenever headroom in a well is insufficient to install a balustrade with height according EN 81-20:2014.

It has two stable positions: the upper part in horizontal position during normal operation of the car and in vertical position, only used during maintenance and inspections.

The balustrade is composed by a fixed part and a rotatable part. The fixed part is mounted to the car roof.

The upper part can rotate within u-profiles as part of the fixed part, which makes it possible to put the upper part of the balustrade in vertical position.

In the highest position the rotatable part is held in place by struts at both sides, which have a hinge in the middle.

The lowest part of the strut consists of a profile which can slide inside another one. When the highest part of the balustrade is in vertical position, the sliding profiles can be fixed in position by winged screws.

Both the horizontal and vertical positions are checked by a safety contact. These contacts are in the safety circuit of the lift, which enable/disable normal operation of the lift.

In the vertical position, the dimensions of the balustrade fulfil at least the demands of a balustrade with a height of 700 mm (BF100) or 1100 mm (BF200) in EN 81-21:2018 and EN 81-20:2014.

GENERAL DATA

Type balustrade	Total height vertical use [mm]	Total height horizontal use [mm]	Length [mm]
BF100	700	225	500-1460
BF200	1100	445	

3. Examinations and tests

The examination covered a check whether compliance with the Lift Directive 2014/33/EU is met, if possible based on the harmonized product standards EN 81-21:2018 and EN 81-20:2014.

Issues not covered by or not complying these Standards are directly related to the above mentioned essential requirements based on the risk assessment, where applicable with the aid of harmonized A-and B-standards.

The examination included:

- Examination of the technical file (See annex 2).
- Check of strength and dimension demands according to EN 81-21:2018 and EN 81-20:2014.
- Examination of the representative model in order to establish conformity with the technical file.
- Inspections and tests to check compliance with the requirements.

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 strength tests passed without remarks and did not lead to permanent deformations or loss of stability.

5. Conditions

On the type-examination certificate the following conditions apply:

General

- A direction dependent safety switch shall prevent further upwards inspection and emergency movement in the zone where the balustrade, if not in horizontal position, can collide with parts in the headroom of the well.
- Both the horizontal and vertical positions of the balustrade must be guarded by a safety contact. These contact must be connected in the safety circuit of the lift.
- Minimum height of BF100 in vertical position 700 mm.
- Minimum height of BF200 in vertical position 1100 mm.
- The balustrade must fulfill the demands of EN 81-20:2014 par. 5.4.7.2.
- Prescribed labels, according to the installation manual, must be placed on or nearby the fixed part of the balustrade and in the control cabinet, see Annex 1.
- If the balustrade has to be retracted from a safe area on the car roof, this safe area must fulfill the demands of EN 81-21:2018 par. 5.6.3 c).
- Where no specific condition is recorded in this section, the applicable requirements of EN 81-20:2014 and EN 81-21:2018 shall be fulfilled.



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:

E. Verkaik
Product Specialist Certification
Liftinstituut B.V.

Certification decision by:

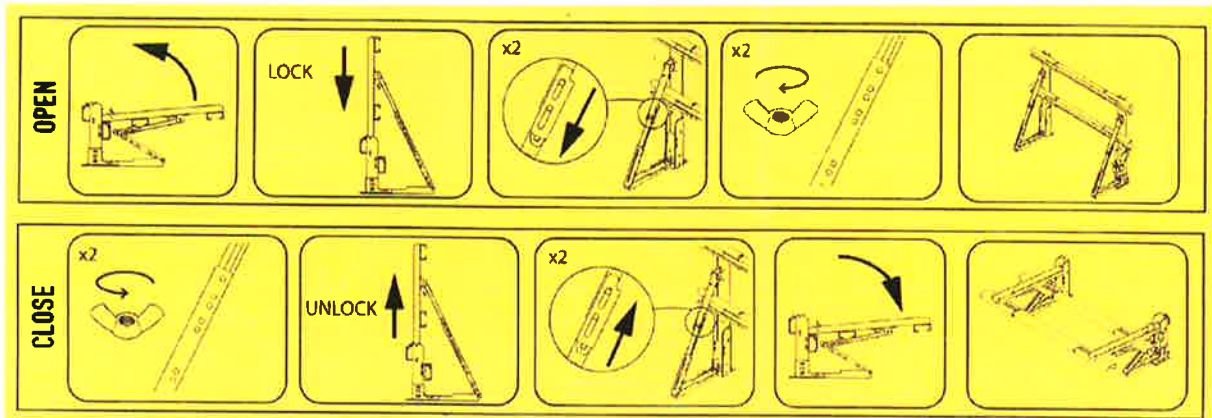


Annexes

Annex 1 : Basic lay-out



Prescribed labels:



Annex 2 Documents of the Technical File which were subject of the examination

title	document number	date
BALUSTRADE FOLDABLE REDUCED HEADROOM	rev. 0	-

Annex 3 Revision overview

REVISIONS OF THE CERTIFICATE

Rev.:	Date	Summary of revision
-	24-07-2018	Original

REVISIONS OF THE REPORT, BELONGING TO THE CERTIFICATE

Rev.:	Date	Summary of revision
-	24-07-2018	Original