

DNP16-01	MANUAL FOR INSTALLATION AND USE	OKATT by agui
By: E.Irazu. Rev.: J.Fernández	DNP15-11. FOLDABLE RAILING	PRODUCT DEVELOPMENT

1) INTRODUCTION

The purpose of this Manual is to describe the steps for the correct installation and use of the foldable railing.

2) GUARANTEE

In order to understand and handle this product, you must be legally qualified to install elevators.

AGUI accepts liability, where applicable, for the products included in the shipment. The AGUI warranty may be rendered invalid if parts or components other than those described in these instructions are fitted.

AGUI cannot accept liability for any damage caused by incorrect handling or as the result of action other than that indicated in this manual. The product guarantee may be rendered invalid if used incorrectly or inappropriately.

All current regulations in force for elevator safety have been observed during the manufacture of this product. There may be risks posed to those handling or fitting the product.

It is not permitted, except where explicitly authorised:

- To use components other than those installed;
- To modify the product in any way;
- To install the product for a purpose other than that for which it is intended;
- To destroy any seal;
- To perform faulty or insufficient inspections and maintenance;
- To use accessories, parts or materials not supplied by AGUI, or that are not official AGUI parts.

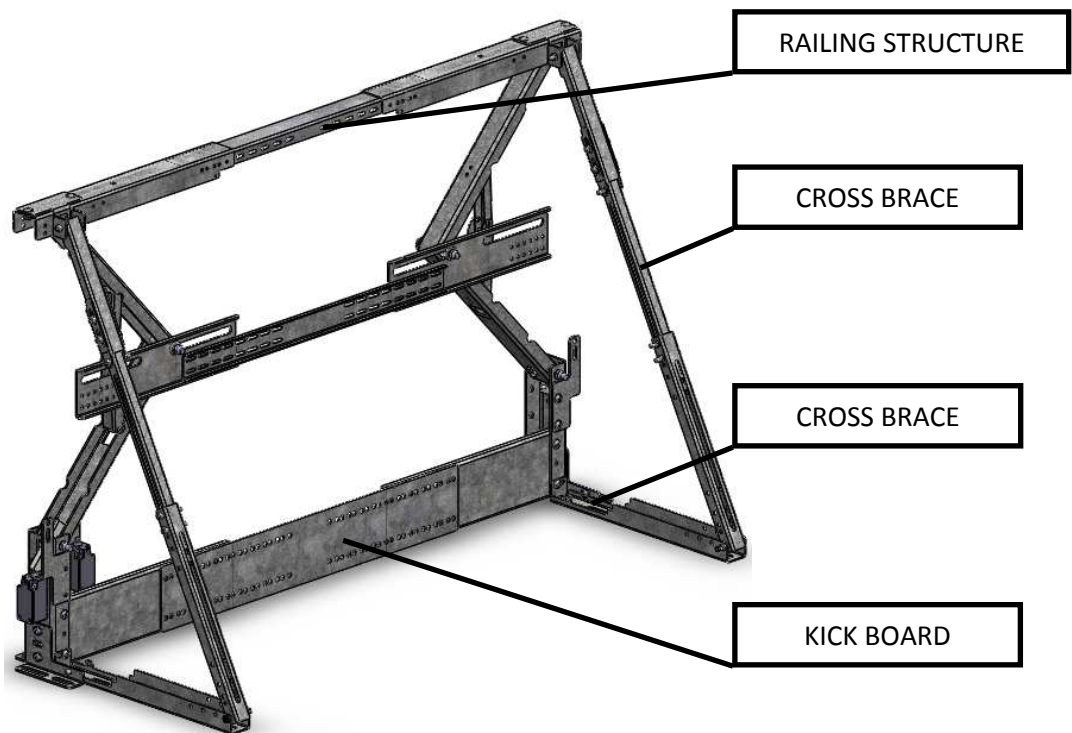
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3) COMPONENTS OF THE KIT.

The kit contains:

- Railing
- Pair of cross braces
- Cross brace fixtures
- Kick board (optional).

FOLDABLE RAILING KIT



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4) TASKS PRIOR TO ASSEMBLY:

Use the assembly diagram to identify the location of the railing and perform the following checks:

Tasks prior to assembly:

- Check Elevation L of the railing and cross check against the project design.
- Check Elevation H of the railing and cross check against the project design.
- Check type of cross brace fixture. There are two possible situations:

- Standard: *Railing is mounted* directly onto the ceiling of the booth. The cross brace fixture is connected to a fixed leg support, which is a fixed-size piece.

-Contiguous railing cross brace: Similar in size and assembly mode as above, but modified to raise the cross brace fixture point and avoid interference with the cross brace of the contiguous railing when both railings are raised.

Both types are standard. A personalised or bespoke set can be made to suit special requirements.

The roof of the cabin must have the necessary resistance for the fixture points to be made and not be deformed under a weight of 50 kg. at each fixture point.

(NB: The cable ties and screws required to mount the product are not included. They must be appropriate for fixing the railing to the roof of the booth. The tensile load at each fixture point is 50 kg, and the torque value must be appropriate for the screws used).

5) MOUNTING THE RAILING:

The sequence for the correct assembly and fitting of the railing onto the elevator roof is indicated below. It is important to check that there is no interference with other roof components in the area marked on the assembly plan.

- Assembly and mounting of the railing onto the elevator roof.
- Tightening the fixture points on the roof.
- Connecting the contacts.
- Checking operation.

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- **Assemble and mount the railing onto the elevator roof:**

The first step consists of assembling the cross braces and fixtures to set the railing up fully. This is done using the screws provided in the accessory bag. See assembly details.

Once the railing is fully assembled, present it to the roof and check that the planned fixture points match those marked on the railing structure for the legs and cross brace fixtures.

(Cross brace fixtures)



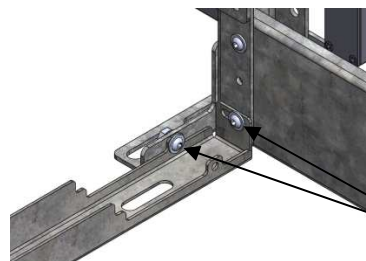
(Cross brace)



Cross brace fixture



Connection of cross brace to top of railing:
Using an M6x50 nut and bolt.

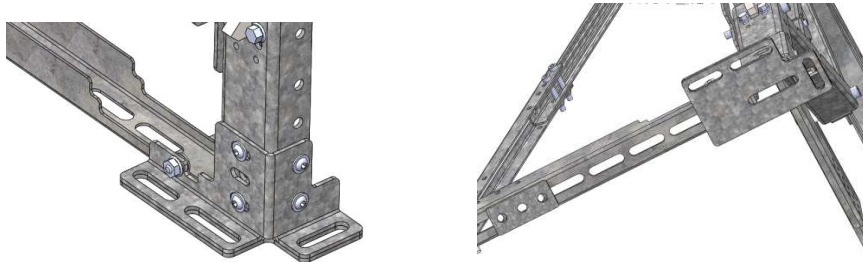


Connection of cross brace fixture to support leg:
Using 2 M6x12 nuts and bolts.

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Chocks for positioning railing on the roof:

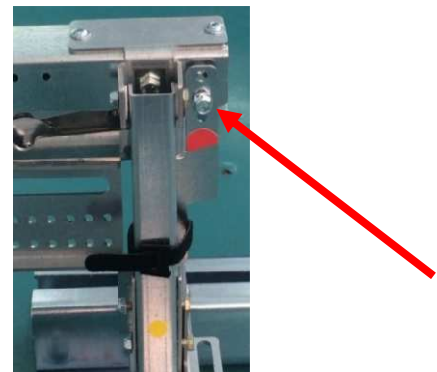
A pair of chocks is supplied with the railing to place between the tubes and the railing fixture points. The main purpose of these chocks is for additional support where there is a contiguous railing and to stabilise the connection of the railing feet if it is not possible to fix the front support directly onto the roof. The image shows the assembly position for the supports.



- **Tightening the fixture points on the roof:**

Once the railing is correctly in place, tighten the cable ties and/or screws to firmly connect them to roof of the elevator.

Once the railing is firmly tightened into place on the roof, remove the transit bolts. These bolts are to block the railing during storage and transport and must be removed in order for the railing to operate correctly



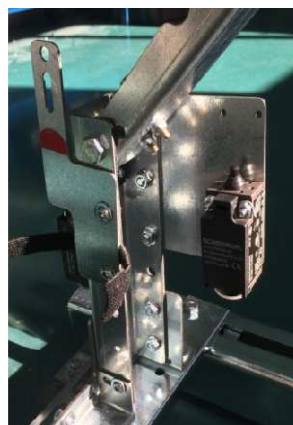
- **Connect up the contacts:**

Once the railing is fully fixed into position on the elevator roof, the electrical connections can be made.

The unit has two contacts that must be connected to the electricity supply following the indications on the diagrams:

Right side: Monitors the active stop position.
Left side: Monitors the resting stop position.

Inactive contact



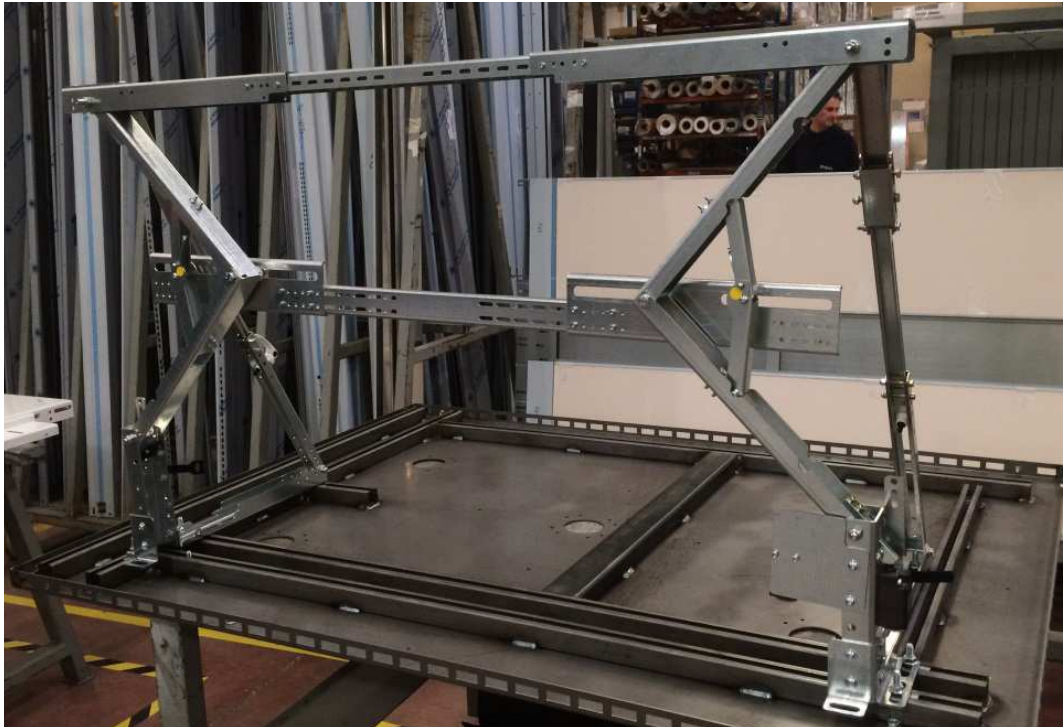
Active Contact



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- **Check operation:**

Once mechanical assembly and connections are complete, railing operation must be tested. This is done by raising and collapsing the railing to check that it slots into both positions correctly. Special attention must be paid to ensuring that the spring bolts are fully deployed when the railing is raised.



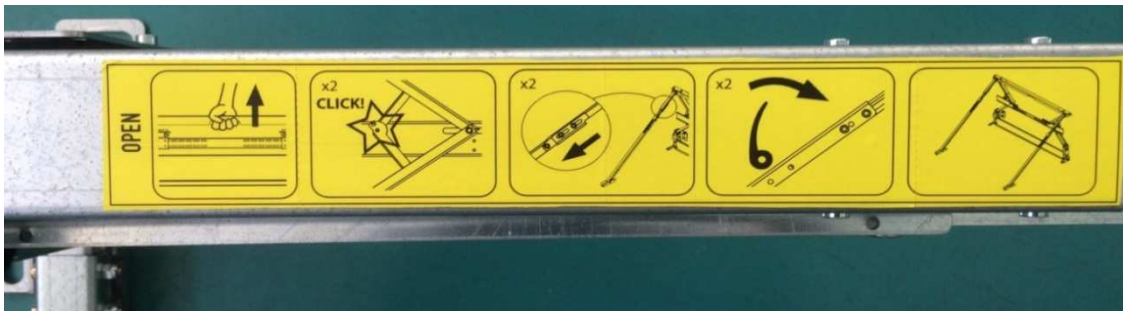
6) INSTRUCTIONS FOR USE:

Upon accessing the elevator roof, the maintenance technician must raise the railing, placing it in review position, and lower it once work is complete so that the elevator can operate correctly in normal mode.

There are stickers on the top of the railing with diagrams showing how it operates. The active parts have yellow stickers marking the points activated to operate the railing.

- **Raising the railing:** The images show the sequence of steps to raise the railing. Once in this position the electrical system will only allow the elevator to operate in revision mode.

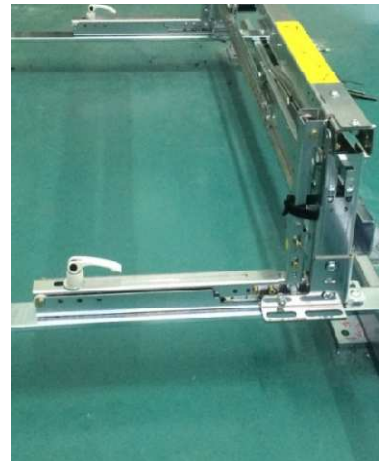
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- **Lowering the railing:** The images show the sequence of steps to raise the railing. Once in this position the electrical system will allow the elevator to operate in normal mode.



The following images show the active parts used to raise / lower the railing.



With the railing lowered and the elevator in normal mode, it is advisable to block the cross braces and secure them with the strap attached to the railing foot to prevent noise caused by possible vibrations of the elevator.