

# INSTALLATION AND OPERATING MANUAL

## VEHICLE RAMPS

## MANUAL VERSION

Manufacturer:

**STEPCONCEPT** - France

Dealer / contact :

**Faiveley Vapor Ricon Europe**

Falcon Works, Meadow Lane, Loughborough | Leicestershire LE11 1HS (Sat Nav LE11 1NF)

+44 (0) 1509 635920 [sales@vaporricon.com](mailto:sales@vaporricon.com) [www.vaporricon.co.uk](http://www.vaporricon.co.uk)

### INDEX

1. AREAS OF APPLICATION	2
2. TECHNICAL SPECIFICATIONS	2
3. SAFETY INSTRUCTIONS	3
4. USING THE RAMP	3
5. INSTALLATION	4
5.1 ASSEMBLY GUIDELINES	4
5.2 FASTENERS TO ATTACH THE RAMP TO THE FLOOR	4
5.3 INSTALLATION PROCEDURES	4
6. TESTS AND INSPECTIONS	5
7. PERIODIC MAINTENANCE	5
7.1 CLEANING	5
7.2 MAINTENANCE	5
7.3 REGULAR INSPECTION	5
8. REPAIRS	6
9. WARRANTY	6

## 1. AREAS OF APPLICATION

Folding ramps are designed to form a slope to facilitate the loading of goods and access to vehicles for wheelchair users.

They are designed to be installed at the rear or side of the vehicle.

The ramps are manufactured in conformity with applicable standards.



## 2. TECHNICAL SPECIFICATIONS

Product name: Manual vehicle access ramp

Installation: mounted inside the vehicle facing the rear or side door

Dimensions and weight: see technical data sheets

Load capacity: 300 to 550 kg depending on ramp type

Test load: 2 times the load capacity

Material: 100% recyclable aluminium

Height of side uprights: 50 mm

Ramp surface: non-slip

Stability in vertical position: third attachment point using safety belt

Operating aid: gas shock absorbers and handles on each side

### Conformity

The products are in conformity with:

- European Directive 2006/42/EC: "Machinery Directive", essential health and safety requirements relating to the design and construction of machinery
- Directive 2001/85/EC (special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat)
- For wheelchair access ramps: Ministerial Decree of 23 August 2013 on the conditions of access of persons with reduced mobility to motorised land vehicles in categories M1 and N1 (driver + maximum 8 seats)

### 3. SAFETY INSTRUCTIONS

This product must be installed by an authorized FAIVELEY or STEPCONCEPT dealer. Only persons familiar with its operation may use this device. Visible warnings on the ramp must be noted and followed before use.

#### Please read and follow these safety instructions carefully

- Always respect the warning or hazard symbols visible on the ramp
- Never exceed the maximum load capacity indicated on the ramp
- Do not stand on the ramp if not fully extended or in motion
- Inspect the ramp and its attachment to the vehicle to ensure there is no impact or deformation
- Only operate and use the ramp when the vehicle is stationary
- Before unfolding the ramp, ensure that no person or object is blocking the deployment area
- The ramp surface must be clean and free of slippery materials
- Repair and maintenance must be carried out by qualified personnel
- Use only original parts to repair the ramp
- Report any unsafe conditions of the ramp or its operation to the installer or maintenance personnel
- Quick release ramp: ensure that the fasteners connecting the ramp to its mounting bracket are properly tightened
- Swivel ramp: never move the vehicle if the ramp is not secured in transport position with the swivel lock engaged.

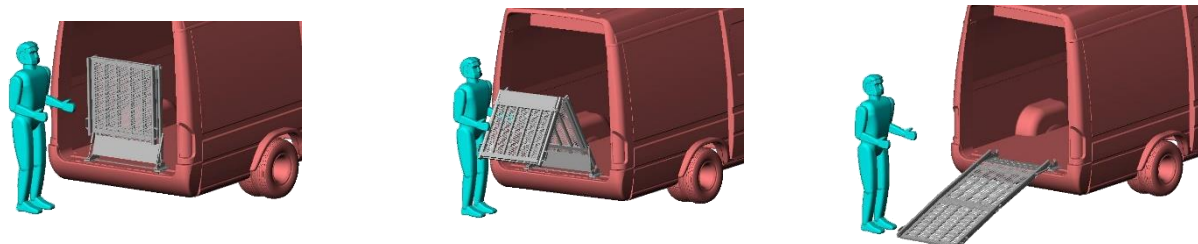


### 4. USING THE RAMP

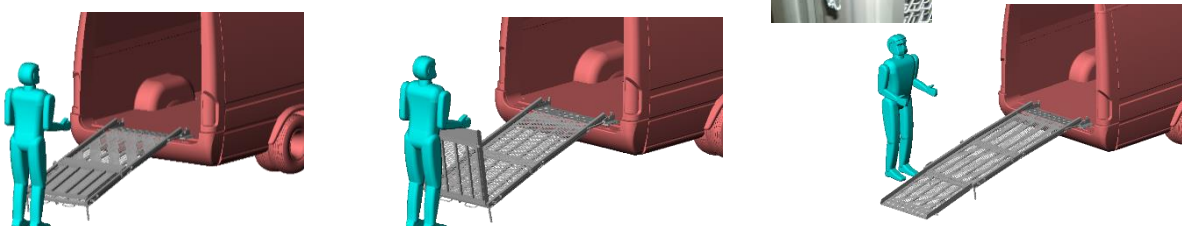
The ramp is extended and stowed with the help of gas shock absorbers located on the sides of the ramp. To unfold the ramp, pull the side handles outwards, the ramp should open, then let it rest on the ground. For two-part ramps, use the wheels at the end of the ramp to slide it on the ground. For three-part ramps, unfold the two upper sections first, then the lower section. The three-part ramp rests on two supporting feet.



#### Two-part ramp



#### Three-part ramp: release the side fasteners holding the third section



## 5. INSTALLATION

The ramps must be installed by trained technicians only.

The installation must comply with best practices for modifying vehicle bodywork.

The installer must refer to the body modification guidelines provided by the vehicle manufacturer.

### Recommended installation tools

Hand drill, drill bit set, hand files, wrench set, torque wrenches, screwdriver, various pliers.

### 5.1 ASSEMBLY GUIDELINES

Do not drill into the tubular elements of the chassis:

- Metal edges must be repainted after drilling
- All fastenings made through the vehicle floor or passenger compartment area must be sealed
- Leave a gap of 25 mm minimum between the ramp and the door to avoid any friction
- Be careful not to damage brake or wiring lines or components
- Drill the first hole smaller than needed and then enlarge to 8.5 mm diameter
- Remove all shavings

### 5.2 FASTENERS TO ATTACH THE RAMP TO THE FLOOR

- 8.8 grade corrosion-resistant flat head Allen bolts (not supplied with the ramp)
- Large washers
- Lock nuts

**Recommended tightening torque:**

Bolt size	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
	<b>8.8 GRADE</b>		<b>10.9 GRADE</b>		<b>12.9 GRADE</b>	
<b>M10</b>	40	48	60	65	60	65

### 5.3 INSTALLATION PROCEDURES

Place the ramp in a vertical stowed position parallel to the access door.

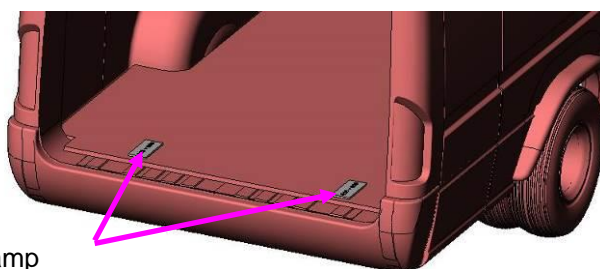
Adjust the stops so that the ramp is parallel to the door.

Check that it can be unfolded without touching the vehicle body.

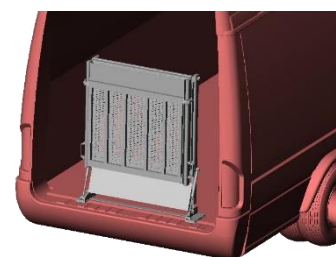


Check that the holes are not in front of any chassis components, then mark and drill the holes.

Check that the vehicle floor is sufficiently rigid, reinforcing it with steel plates under the vehicle if necessary.



Floor-mounted ramp



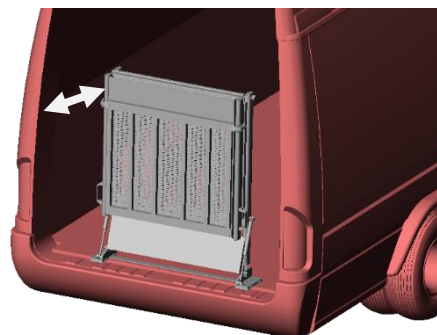
Position the ramp, secure it in place and check that it operates correctly. Test the extending and stowing function

### Third attachment point: anti-tilt belt

The belt is fixed onto one of the side bolts of the ramp.  
Use one of the threaded points on the vehicle for safety belts or loading rings.



Belt  
attachment  
points



With the Ramp locked in a vertical position, connect the belt buckle and tighten if necessary.

## 6. TESTS AND INSPECTIONS

Inspect the ramp and all fixings.

Ensure that the ramp operates properly and does not interfere with any vehicle component during operation.

Position the safety stickers so that they are visible from inside and outside the vehicle.

Clean and vacuum the work area inside the vehicle.

## 7. PERIODIC MAINTENANCE

### 5.4 CLEANING

Clean the ramp using non-aggressive cleaning products.

Keep the ramp surface clean and non-slip.

### 5.5 MAINTENANCE

Lubricate the ramp's hinges and swivel points using a dry silicone-based lubricant or similar at least every six months.

### 5.6 REGULAR INSPECTION

An inspection must be carried out every six months, or immediately if there is an impact or if abnormal operation occurs:

- Check that all the mounting bolts are in place and tightened
- Check that there is no vibration or abnormal noises

## 8. REPAIRS

All repairs and the replacement of spare parts must be carried out by qualified and trained personnel.

## 9. WARRANTY

FAIVELEY and STEPCONCEPT warrants that the equipment is free from material and manufacturing defects under normal use and service.

The warranty provisions do not apply in the following cases:

- Improper installation, maintenance or modification not approved by FAIVELEY or STEPCONCEPT
- Misuse, negligence or accident

Our warranty is limited to the repair or replacement of any product returned to our factory and after assessment by our services.

If repairs are carried out with prior agreement, only the spare parts will be covered by FAIVELEY or STEPCONCEPT. Labour, travel and other related costs will not be covered by FAIVELEY or STEPCONCEPT.

Unless otherwise agreed by FAIVELEY or STEPCONCEPT, all defective spare parts must be returned to our factory.

The warranty is effective from the date of sale to the original purchaser and covers only the original parts for a period of 24 months.

FAIVELEY or STEPCONCEPT will not under any circumstances refund the cost of parts purchased from sources other than FAIVELEY or STEPCONCEPT.

## Product Details

Product Model (enter entire number from nameplate).....

Product Serial Number (see nameplate).....

Date Installed.....Date In-Service (if known).....

OEM/Installer of Ramp.....

Vehicle Registration.....

## Product Owner

Name.....

Street / Address.....

City / County .....Post Code.....

Telephone.....

Email Address.....

## Registration form completed by (Tick One)

OEM/Installer ☐ Dealer ☐ Owner/End-User ☐

☐ I acknowledge that I received, read, and will follow the instructions in the Owner's Manual for this product

Signed.....Date.....

**THIS FORM MUST BE COMPLETED WITHIN THIRTY (30) DAYS AFTER DELIVERY TO THE  
OWNER/END USER FOR WARRANTY TO BE VALID**

**PRODUCT SUPPORT DEPARTMENT  
FAIVELEY VAPOR RICON EUROPE  
FALCON WORKS  
MEADOW LANE  
LOUGHBOROUGH  
LE11 1HS, UNITED KINGDOM**



