



E8000/E5000

Rescue Stairs

Fast access. At any height.

 **rosenbauer**

With the Rosenbauer Rescue Stairs, passengers can be quickly and safely rescued from aircraft. It also enables rescue teams to enter the cabin from the outside in order to provide assistance.



The Rescue Stairs.

Quick access on the runway.

The operational scenarios in which an rescue stairs might be deployed are numerous: If a fire breaks out in the cabin while an aircraft is stationary or still taxiing, the occupants need to be evacuated immediately. Technical defects in the aircraft can also make an immediate evacuation necessary, and this often in remote corners of the airfield, far away from the usual areas of operation. With an rescue stairs, such evacuations are possible without the need to deploy an aircraft's evacuation slides. This is not only safer, but also more sustainable. There can also be a medical emergency on board that requires doctors, paramedics or rescue teams to board the aircraft as quickly as possible, before a sick or injured passenger can be transported out. Rescue stairs are made for precisely such situations.

Quick and simple to operate

The Rosenbauer rescue stairs stands out due to its rapid set-up time and quick & simple operation: because every second counts in an emergency. Thanks to the latest sensor technology, the vehicle and the staircase can be easily controlled by a single person. The overall concept is uncompromisingly optimized for use by airport fire departments and uses appropriately adapted chassis concepts.

One name, one promise: Rosenbauer

For over 150 years, Rosenbauer has been a pioneer and a partner for emergency personnel. We are the only company to specialize in providing practical solutions for all decisive moments in fire and disaster protection. From preventive fire protection to vehicles for every scenario, from digital applications to personal and technical equipment ... Rosenbauer covers it all with its expertise and experience as a system provider.

For Rosenbauer, perfection means staying on the front foot. For example, we set new standards in fire and disaster protection with technologically advanced innovations. Through intensive discussions with our customers, we find exactly the right solution and are on location when needed. Worldwide. We do everything to ensure that you are optimally equipped when it matters.



Safe and convenient.

Details that make the difference.

Like all Rosenbauer products, the rescue stairs is reliable and powerful. It stands out due to its sophisticated details, which take safety and comfort to a new level.

Safety down to the smallest detail

Thanks to a step width of 1,500 mm, 3 people - or 2 people carrying a stretcher - can use the rescue stairs simultaneously. The steps always remain in the horizontal position, regardless of the inclination of the stairs. The staircase lifting device, the so-called A-frame, as well as the stairs extension, are designed as standardized positive lock assembly with latches and teeth (in accordance with EN 12312-1 point 5.3.3). In the event of a technical failure of the hydraulic cylinders, the rescue stairs has a safe mechanical fallback level. So you are even ready for an emergency within an emergency!

Seamless illumination

The LED lighting concept enables complete illumination of the docking area, the steps, and the operational environment. Light means a safer environment and enables operations to be carried out quickly and safely, even in less than optimally lit areas.



Well designed rescue platform

The rescue platform has a width of 3,000 mm, allowing the cabin door to be opened without any problems. In order to ensure precise - and thus maximally safe - docking with the aircraft, the front edge including the railing can be telescopically extended by up to 1,000 mm, and all docking angles up to 15° can be compensated for. A rapid intervention hose reel is also installed for initial firefighting attacks, which is supplied from ground level by means of a telescopic pipe.

At the bottom of the stairs is a hydraulic rear ramp, which is fitted with an automatic locking and unlocking mechanism. Due to the length of the rear ramp, the maximum angle of inclination is just 18°. Due to the ramp being folding mechanism, the overall height of the vehicle remains low.



Maximum stability

Maximum stability is achieved through the hydraulic 4-way jacking system. This is supported by the ALR (Automatic Level Regulation). It compensates for diagonal height differences of up to 200 mm. This function assists the operator and ensures stable and secure support.

Easy and safe operation

The rescue stairs can be operated from either the driver's cab or the platform. The Rosenbauer Logic Control System, which is familiar from the PANTHER and other Rosenbauer vehicles, enables intuitive operation. Integrated into this is the HLCS (Height Level Control System) which enables automatic height pre-selection for all common aircraft types. All control commands are carried out through two-handed operation for safety purposes. The approach process is supported by a camera and a proximity sensor system.

Uniform operating concept

As with all other Rosenbauer vehicles, the RBC LCS operating system is also used in the rescue stairs. This enables operators to seamlessly switch between different emergency vehicles.



Two for any situation.

The models and their characteristics.

E5000: For rescue heights from 2.5 m to 5.5 m

- Rescue heights range from 2,500 mm to approx. 5,500 mm*.
- This height range covers around 92% of all door variants on common aircraft.
- With the maximum rescue height of 5,500 mm, it is possible to reach the lower deck of an Airbus A380 and the Boeing 747.
- Low door heights of 2,500 mm for short- and medium-haul aircraft, such as the Boeing 737 are facilitated by a special chassis modification.

E8000: For rescue heights of up to 8.5 m

- The rescue height is extended up to approx. 8,500 mm*.
- Along with the optional E3000 front platform, the E8000 is also suitable for use on short- and medium-haul aircraft.
- With the maximum rescue height of 8,500 mm, it is also possible to reach the upper deck of an Airbus A380 and the Boeing 747.
- For maximum performance, the E8000 is built on a 3-axle chassis.

* depending on the chassis used

Standard compliance

The construction and type examination of the rescue stairs (where applicable for vehicles) is performed in accordance with the following standards:

- EN 12312-1 Aircraft ground support equipment – Specific requirements Part 1: Passenger stairs
- EN 1915-1 Aircraft ground support equipment – General requirements Part 1: Basic safety requirements
- EN 1915-2 Aircraft ground support equipment – General requirements Part 2: Stability and strength requirements, calculations and test methods
- European Machinery Directive 2006/42/EC
- EN 13849 Safety of machinery – Safety-related parts of control systems for rescue stairs
- Risk assessment according to DIN EN ISO 12100



Simulated stress test.



Safety in extreme situations

- Even with crosswinds of 40 knots (74 km/h) and a flat front tire, the vehicle remains stable without a jacking system.
- The platform can bear loads of up to 320 kg/m², and the steps up to 240 kg.
- The side railings can withstand loads of more than 1000 N.
- The tilt angles when the stairs are down (E5000: ~27°, E8000: ~25.5°) and when the stairs are extended (~16°/~8.5°)* demonstrate the safety of the vehicle design.

* depending on the chassis used

