

# INSTRUCTIONS FOR USE – INSPECTION MANUAL S.A.L. “RG 2” RESCUE DEVICE

## 1. Description of the equipment:

The “RG 2” abseil descent device is a rescue system in accordance with EN 341, with which one or more people can descend from a higher location to a lower one at a limited speed of descent.

**It may only be used as a rescue system and not as a catching system.**

### The System:

The “RG 2” rescue/descent device has been tested by the TÜV (Technical Supervisory Authority) Austria in accordance with EN 341. Only PSA in accordance with EN 1497, rescue overalls (= rescue harness) may be used with this rescue/descent device.

We recommend:

**S.A.L. Rescue Overalls** in accordance with EN 1497

**S.A.L. “FKS 1” Personnel securing hook/contact point for Class A1** in accordance with EN 363, 365, 795.

**Connection element** (if required) in accordance with EN 362

### Technical Details:

Minimum descent weight: 30 kg

Maximum descent weight: 150 kg

Maximum descent height: 300 m

Maximum descents up to 2,000 metres (e.g. 20 descents of 100 metres each)

For shorter descent heights, a corresponding number of descents are possible.

### Regarding Use:

Before taking the rescue device into operation, the Instructions for Use provided are to be read very thoroughly, and the handling procedures described in detail are to be followed. The rescue device may only be used by persons who have read the Instructions for Use.

### Regarding the Area for Use:

The “RG 2” rescue device may only be used for rescue purposes (e.g. evacuation of persons from burning buildings or great heights).

## 2. Inspection:

Before each instance of use, carry out a visual and function inspection of the rescue device.

**Visual inspection** as follows: Check whether there is any damage to the housing of the rescue device or any of the karabiners (e.g. cracks).

Check whether any damage can be seen or felt on the cable (break in the core sheath, fold in the cable, etc.).

**Function test** as follows: Pull once on the left descent cable and once on the right. The cable must draw uniformly in both directions. There must be a perceptible resistance felt.

If there is any doubt about the safety of the rescue device or other components of the rescue system, they must be replaced immediately. This must be done by the manufacturers.

**Damaged equipment, rescue overalls, catch belts and cables must not be used.**

In the event of a fall occurring due to fear, panic, etc. in an emergency, and, as a result, the system (rescue device-rescue overalls) are stressed by the fall, the system is likewise to be taken out of service and returned to the manufacturer or a person certified by the manufacturer to carry out repairs and retesting.

**After use in a rescue, arrange for an inspection by the manufacturer or a person certified by the manufacturer.**

**In the case of practice operation, arrange for an inspection to be carried out by a person certified by the manufacturer after a maximum descent distance of 2,000 metres (e.g. 20x100 m). Arrange for the inspection required by law to be carried out at least once a year by the manufacturer or a person certified by the manufacturer (for exceptions see Point 6 Product Liability).**

### WARNING:

**Do not make any modifications to the product.**

**The exchange or replacement of constituent parts of the system is PROHIBITED**

### 3. Use:

#### **WARNING:**

**Take appropriate measures to prevent falls even when preparing to make a descent**

Draw the descent device with the descent cable out of the plastic bag sufficiently far for the karabiner hooks attached to the "RG 2" rescue device to be hooked onto a securing point according to EN 363, 365, 795 and secured (see Fig. 1). The contact point must be above the user and guarantee a minimum load-bearing capacity of 10 kN in accordance with EN 795.

There is a karabiner hook at each end of the descent cable. The cable runs over a cable pulley. When one end with its karabiner hook is located at the upper descent point, the other end with its hook must be at the lower descent point.

#### **Descent and rescue of a person:**

The first person puts on the rescue overalls/rescue harness forming part of the system (see Figs. 4 and 5).

Hook the karabiner hook on the end of the cable at the upper descent point into the securing point of the overalls/harness (two rings in the chest area) and secure them (see Fig. 2).

Lower the long descent cable – **do not throw it**. The cable must hang free of any obstacles or loops and reach as far as the lower descent point (see Fig. 3).

#### **WARNING:**

**Take note of the instructions for use for "Rescue overalls/rescue harness"**

Now pull on the long cable end hanging downwards until a taut connection is created between the descent device and the rescue harness (see Fig. 5).

#### **WARNING:**

**Never let a hanging cable drop**

#### **KEEP CALM**

Now sit on the window ledge, turn to the left or the right, slip off, and descend with your face to the wall (see Figs. 7 and 8). Use your hands to keep away from the wall. The speed of descent will be controlled automatically (about 0.6 m per second). Watch out for any obstacles.

On arriving at the bottom, take off the rescue overalls/harness and hang them on the karabiner hook on the cable in order for more people to be rescued. (see Fig. 9).

Leave the danger area immediately.

#### **Descent and rescue of several persons in relay**

When several persons are descending in relay, there must be at least two rescue overalls/harnesses available.

The first person descends as already described.

The second person puts on the second rescue overalls/harness. Hook the karabiner hook of the descent cable which is now at the top into the securing point (two rings in the chest area) and secure it. Draw on the long cable hanging down until a taut connection is created between the descent device and the rescue harness. Sit on the window ledge, turn to the left or the right, slip off, and descend with your face to the wall. On arriving at the bottom, take off the rescue overalls/harness and hang them on the karabiner hook of the descent cable again. Leave the danger area immediately.

The other end of the cable with the rescue overall/harness is now at the upper descent point again, and the third person can now put them on, and descend safely as already described. Every other person can now descend one after another in the same way as the third person.

#### **WARNING:**

**Always take sufficient care to prevent falling up to the actual moment of descending.**

#### **WARNING:**

**Protect the cable from sharp-edged objects, welding sparks, or other destructive or damaging hazards.**

#### **WARNING:**

**Never descend through fire.**

**The rescue device and cable are not fireproof.**

## **WARNING:**

The rescue device heats up during the descent, resulting in the risk of a burn on contact, even after some minutes have elapsed. The housing may change colour if subjected to high stress, but this has no effect on its performance.

## **WARNING:**

**Risk of injury:** Injuries such as grazing or damage to the clothing can occur during the descent. No liability is accepted for injuries, damage, or dirt contamination of any kind which are not attributable to a failure in the system caused by the manufacturer.

## **WARNING:**

The rescue system must not be used under the influence of drugs, alcohol, medications, or other addictive substances which might incur a restriction in reaction ability.

## **WARNING:**

The rescue system is to be used solely for the saving of life. The device is not a toy, and is therefore to be safeguarded by the owner against improper use.

## **4. Cleaning**

Clean the rescue device and descent cable after use as required.

Clean the rescue device with a moist cloth only, without chemical cleaning agents.

Clean the cable with plenty of lukewarm water (40 °C) and dry it.

If it becomes wet during use, dry it.

Dry it out in a natural way only, i.e. not close to fire or other heat sources.

Avoid contact with acids, corrosive fluids, and oils. If this is unavoidable, it is essential to contact the manufacturer or a person certified by the manufacturer. They will advise you of the best way to proceed.

**Take care of the cables and they will last longer.**

## **WARNING:**

**Follow the cleaning instructions strictly.**

## **5. Storage:**

To keep the rescue device and descent cable in a safe and serviceable condition, the following safekeeping requirements must be respected:

- \* Store in a dry place at room temperature in the original packing
- \* Protect from direct sunlight
- \* Protect from dust and animal and insect pests
- \* Protect against heat and cold

## **6. Product liability:**

The rescue device and cable are subject to a certain amount of ageing even if not subjected to stress. UV radiation and heat in particular will accelerate the ageing process. The instructions regarding storage are to be strictly respected. For systems in use the inspection intervals specified by the law and the manufacturer are to be strictly maintained. If this is not done, waiver of liability will apply immediately.

### **Exception:**

With unused devices in the original packing and welded closed, and correctly stored, the manufacturers guarantee a service life of 10 years. Thereafter the device and cable are to be replaced.

## **7. Duration of use**

The duration of use depends on the individual operational conditions. Previous experience has shown that under normal conditions of use a duration of use for cables from 6 to 10 years can be assumed.

## **Note:**

**A set of Instructions for Use/Inspection Manual are provided for each system or component part. These must be kept with the device.**

**Take note also of the instructions for use of the products which are used in conjunction with the "RG 2" rescue device/descent device, as well as the accident prevention regulations applicable in each case.**

## **8. Identification marking of the rescue device:**

The rescue device is provided with a serial number (see cover sheet for Instructions for Use for the rescue device and inspection manual, and on the rescue device itself).

The applicable provisions of the law are to be maintained.

## **By way of explanation:**

**"Use in rescue":** Use of the rescue system in an emergency

**"Practice":** Preparation practice with the rescue system, in order to be able to use it properly in an emergency.