Rooftop gliding ladder - Specification guide

1. Materials

- Only materials not subject to corrosion can be used. The ladder and the supporting frame are made of aluminum alloy profiles, anodized 10 micron, natural mat finishing; fasteners (bolts, rivets and washers) of stainless steel grade A2 property class70; joint washers, bushes, plugs, etc. in polyamide and elastomer.
- No protective treatment, painting or maintenance is required, except when exposed to aggressive environments.
- No welding is allowed. The rungs are clinched into the uprights. Bolts and rivets are used for all other assembly.
- The ladder and frame can be polyester powder coated in any RAL color (option).

2. Installation

- The supporting frame is permanently attached to the roof surface.
- The frame can either be anchored to the roof structure (e.g. by expansion bolts, wood screws or other fixing means) or kept in place by using a (concrete) mass of appropriate value.
- When deploying, the ladder travels down via the frame's roller guides which ensure a smooth movement. When not in use the ladder is retracted back onto the roof in the frame and is not easily visible from below.

3. Dimensions

- The ladder complies to the standard EN 131.
- The ladder is composed of standardized elements of 11 ft / 3.36 m maximal length, which are assembled to the desired length. These elements are connected by perforated aluminum sleeves that are shifted inside the uprights. Bolts are used for fastening.
- The uprights are spaced at 16 in / 400 mm, the rung axes at 11 in / 280 mm. The ladder uprights have hollow oblong section (2-15/16 x 1 x 5/64 in / 75 x 26 x 2 mm) with rounded corners. The rungs are round (Ø 1-3/10 in / 34 mm) with a flattened and grooved anti-slip upper face.

4. Options

4.1 Guardrails

- The ladder can be equipped with a 12 in / 300 mm guardrail that can be installed on the left or on right side of the ladder.
- The guardrail is placed on the inside part of the upright, reducing the available width by +/- 2 in / 5 cm.

4.2 Two sections ladder

- When not enough roof space is available to fit a full ladder element, a two-sections ladder is to be used. The frame is adapted to include the double element.
- The upper element has an internal width of 17 in / 435 mm.
- while the lower element has an internal width of 14 in / 350 mm.
- The two elements deploy automatically when the ladder comes down.

- The deployment of the ladder elements is ensured by a set of at 4 roller guides fixed to the uprights of the upper element.