



Safety Manual

Insulating and Hygienic Folding Stairs

JumboStar × RampStar × KingStar



SKYLAX Safety Manual can help evaluating the risk of a ladder job. A good risk evaluation requires the following controls: **1. Operation Control:** do you need a ladder for the job or can it be done better otherwise? **2. Environment control:** list up all potential risks coming from the environment; esp. measure all electrical currents and charges! **3. Operator Control:** are you sure you got the right person to do the ladder-job? **4. Product Control:** check the ladder itself going through the „**Checklist**“ at the end of this page. **5. Accident Reports:** Report ladder accidents and ladder injuries to ILMAC, the "International Ladder Manufacturers' Convention" (see "checklist")

Product Identification

Brands: **Jumbo Star**, **Ramp Star** (without parapet), **King Star** (with parapet), **KingStar Rail** (with parapet and double rail).

Utility: portable, folding, self-supporting or hooking, insulating (1 KV) and hygienic aluminium stair for works up to 3 m / 10 ft (2-5 treads). Maximum weight: 14 kg / 22 lb. Maximum load: 250 kg / 551 lb

Supplier: See Invoice / Way-Bill

Components

(AL) Coated aluminium profiles (RAL 3020)

(AL) Rolled anodised aluminium band

(FE) coated steel band

(PA) Nylon 6

(PA) Nylon 6 reinforced with glass fibres

(PE) Self adhesive polyethylene foam

(PET) Self adhesive polyester

Danger

10 CAUSES OF LADDER ACCIDENTS:

1. Complacency about danger
2. Dizziness and poor balance
3. Fatigue and weak muscles and bones
4. Poor vision
5. Poor hearing (exposure to noise)
6. Ladder touching live electrical conductors
7. Ladder slipping at top
8. Ladder slipping at base
9. Ladder resting against moveable objects
10. Falling material

Protection Information

- Check the ladder (see "checklist")
- Maximum load / Duty rating: 250 kg / 551 lb
- Ask your doctor when dizzy or "wobbly"
- Accident-proof your ladder by testing stability
- Assure more lighting
- Assure good hearing hygiene + accurate noise protection
- Prompt reflexes: pay attention to your age, alcohol, medications
- Use *ergonomic ladders* with freestanding treads. Recognition tips for "ergonomic ladders":

- 1 low weight (less than 20 kg / 50 lb)
- 2 large steps (surface 23 x 36 cm / 9 x 14 in)
- 3 treads laterally not closed by rails
- 4 self-locking positioning
- 5 self-instructing handling
- 6 colour design

- Avoid heavy ladders (more than 20 kg / 50 lb equiv. ca. 7 m / 23 ft long standard aluminium ladders)
- Do not repair portable ladders

- Do not apply accessories and fittings on portable ladders, e.g. hooks, clasps, points, levellers, platforms, footboards, rolls, roads, spacers, boards, depositaries
- Do not use the ladder when closed
- Open and close the ladder rotating the upper tread – so you will protect the lateral spreader bars and yourself
- Since the appliances of insulating ladders in electrical ambient are safety critical, SKYLAX would strongly suggest preoperative tests. Tests shall be made before starting work each day, each time during the day when a higher voltage is going to be worked, and when changed conditions indicate a need for additional tests. A micro ammeter designed for use with insulating ladders shall be used for testing the dielectric current through the ladder legs with all legs bonded together at the metering point. If the measured dielectric current after 1 minute is less than 0,333 microampere for each kilovolt of nominal phase-to-phase voltage, the insulating ladder may be placed and the work started. A written record of these tests shall be maintained both with the equipment and in the responsible operating office.

Ecological Data

- Life cycle: 10 years
- Packaging in cardboard + polyester foam inserts

Recycling

- All plastic parts - except PA-cushions of treads - can be removed and collected for recycling
- Tread layers can be removed for recycling
- All steel parts can be removed and collected for total recycling
- All (coated) aluminium parts can be recycled

Transport Information

First close the ladder rotating the upper tread

Standards

- Built to ASTM D 149; UNI 4291, EN 61478
- In EU-member states companies and professionals are obliged by National and European laws to evaluate the risk of the use of portable ladders. This Safety Manual has been written to support safety managers in doing this job with portable ladders.
- Standards and standard certifications of portable ladders are without any legal obligation (WTO agreements) and do not influence ladder safety.



CHECKLIST for

JumboStar, RampStar, KingStar, KingStar Rail

A: Order spare-parts when:

- | | x |
|-------------------------------------------------|--------------------------|
| 1. spreader-bar (2) deformed / broken | <input type="checkbox"/> |
| 2. steel cross-plate deformed/loose rivets | <input type="checkbox"/> |
| 3. ladder shoe (4) lost | <input type="checkbox"/> |
| 4. Kick-Stop in ladder shoe (2) eaten up | <input type="checkbox"/> |
| 5. black round stoppers (8-20) broken | <input type="checkbox"/> |
| 6. tread (2-5) deformed (no risk) | <input type="checkbox"/> |
| 7. rubber pad is deformed or broken | <input type="checkbox"/> |
| 8. the ladder totters : check 1-4, if persists: | <input type="checkbox"/> |













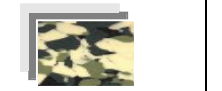



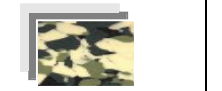



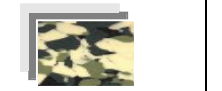


B: Replace complete ladder when:

- | | |
|-------------------------------------------|--------------------------|
| 9. Conductivity >0,33 micron Ampere/1KV | <input type="checkbox"/> |
| 10. surface of a stile profile not linear | <input type="checkbox"/> |
| 11. tread (2-5) broken | <input type="checkbox"/> |

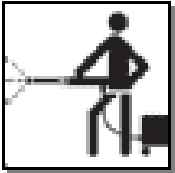
C: Report a ladder accident to ILMAC:

- | | |
|------------------------------------------------------------------------------|--------------------------|
| 12. www.skylax.com/ilmace.htm | <input type="checkbox"/> |
|------------------------------------------------------------------------------|--------------------------|

Quality Inspection Certificate upon request

  <h1 style="margin: 0;">Users Manual</h1> <h2 style="margin: 0;">Insulating and Hygienic Folding Stairs</h2> <h3 style="margin: 0;">JumboStar × RampStar × KingStar</h3>  									
Life cycle	10 years								
Duty Rate	250 kg / 551 lb								
Insulating	<p>Insulating up to 1000 VOLTS AC and 1500 VOLTS DC</p>  <p>A micro ammeter shall be used for testing the dielectric current through the ladder legs with all legs bonded together at the metering point. If the measured dielectric current after 1 minute is less than 0,333 microampere for each kilovolt of nominal phase-to-phase voltage, the ladder may be placed and the work started.</p>								
<p>Open – Close</p> 	<p>Open Rotating the upper tread Close Rotating the upper tread</p>   								
Keep Clean	<p>Clean with high pressure cleaners, without detergents Red coating and colored tread layers repel water, petroleum, oil, tar, fat, grease, tar, acids, phenol</p> 								
Spare Parts	<p>Control Kick-Stop under small foot:</p> <ul style="list-style-type: none"> - replace small foot <p>Replace tread layers</p> <ul style="list-style-type: none"> - self-adhesive - select color 								
Replace tread layers	<p>Replace self-adhesive tread layers</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R = SCARLET</td> <td>A = ARMY</td> <td>S = SUMMERWIND</td> <td>H = HARLEQUIN</td> </tr> </table>					R = SCARLET	A = ARMY	S = SUMMERWIND	H = HARLEQUIN
									
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Revision	<p>Ask for complete revision, including:</p> <ul style="list-style-type: none"> - substitution of all tread layers, - substitution of all used plastic parts - control / substitution of all steel parts 								
Recycling	<ul style="list-style-type: none"> - All plastic-, steel-, red- and aluminium parts of the ladder can be separated for complete recycling 								

Easy to clean without detergents Built for handling in HACCP ambient and in hygienic industry



3-7 atmospheres *anodized*



anodized



anodized



STAR



STAR



STAR

Easy to clean and hygienic components:

- *Tread layers made of sponge with closed cells*
- *Anodized aluminium*
- *Shiny red **STAR**-coating*

Repel:

- *Water*
- *Petroleum, oil, tar*
- *Fat, grease*
- *Acids, phenol*

Request list of resistance in more than 100 chemical solutions

Keep clean with high pressure cleaners:

- *Without detergents*
- *Tread layers turn clean*
- *Aluminium profiles turn clean*
- *Aluminium plates turn clean*
- *Colors turn brilliant*

