



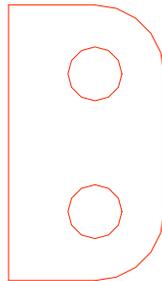
**Reliance Industries, LLC**

# Operating instructions

for

# **HLL Dual Hole Weld-On Lug**

**Model # 6161, 6162**



**Reliance Industries, LLC  
10790 W. 50<sup>th</sup> Ave. # 1200  
Wheat Ridge, CO 80033  
Ph. (303) 424-8650  
Fax (303) 424-8670**



## User Instructions

6161/6162 Skyline HLL Weld-on Lug

Reliance Industries, LLC

### General Instructions

It is the responsibility of the employer, as part of a total fall arrest rescue and evacuation program, to retain the manufacturer's instructions and make them readily available to all users. The employer must provide adequate training in the proper use and care of this product prior to use.

#### Manufacturer's name and address

Reliance Industries, LLC  
10790 W. 50<sup>th</sup> Ave  
Suite #1200  
Wheat Ridge, CO 80033  
USA

Tel.: (303) 424-8650

Fax: (303) 424-8670

#### Part Number and Model Designation

Model type: HLL Dual Hole Weld-on Lug  
Part number: Model # 6161 Material: carbon steel  
Model # 6162 Material: stainless steel

Caution: Always certify, using a qualified person, that the structure to which the HLL Weld-on Lug is being attached will carry the intended loads per OSHA and ANSI standards. For use with the Skyline Horizontal Lifeline System.

When using as an anchorage for an HLL, always insure that the structure it is attached to will support the maximum anticipated load with a 2 to 1 safety factor (which may be as great as 14,000 lbs.).

#### Intended use and purpose of the equipment

The HLL Weld-on Lug is a horizontal lifeline end anchorage intended for use only for the connection of horizontal lifelines to approved structural steel surfaces.

# User Instructions

## 6161/6162 Skyline HLL Weld-on Lug

### Proper method of use

1. Prepare the surface where the Weld-on Lug is to be located. Paint, scale and rust must be removed by grinding or sanding to create a surface capable of being welded to.
2. Mark the location where the Lugs are to be placed. Ensure the locations are placed so that the lifeline will be straight and level when welded in place.
3. Weld the Lug into place with the Lug in line (parallel) with the horizontal lifeline (see Figure 1). Weld with a 5/16-in. minimum fillet weld using 70,000 PSI minimum strength MIG wire or electrode. DO NOT weld lug in such a fashion that the HLL will side load lug.
4. Bolt Skyline Horizontal Lifeline Stanchions in place using the hardware supplied with the stanchion.

### Skyline HLL Weld-on Lug Model # 6161/6162

#### Orientation diagram for the Weld-on Lug

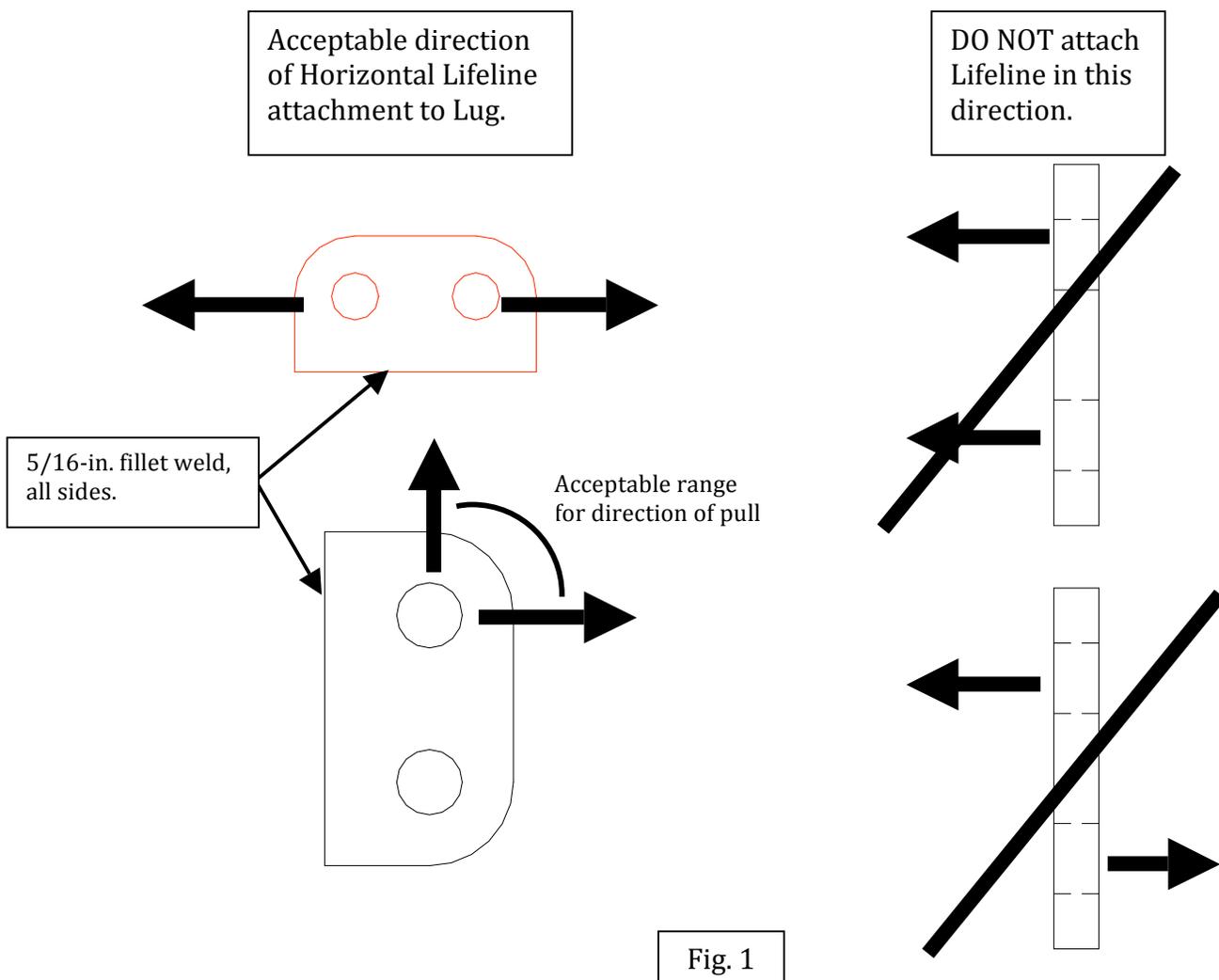


Fig. 1

## User Instructions

### 6161/6162 Skyline HLL Weld-on Lug



#### Caution !

- Use only with the Skyline HLL system using 3/8-7 x 19 steel cable and the Skyline Shock Absorber pre-tensioned to 1000 lbf.
- Use only with HLL systems in which the anticipated maximum line tension does not exceed 6000 lbf.
- Do not replace factory supplied bolt with any substitute.
- Do not install in corrosive environments that will cause degradation or corrosion of steel or zinc plated components.
- Do not use when the danger of lightning strike exists.
- Do not install or use near electrical hazards.
- Do not install this Lug at elevations that will allow the worker to strike a lower level or objects that are below him in case of a fall.

This product should be used only according with these instructions and in accordance with all state, federal and local safety regulations. The worker must read, heed and understand all warnings and instructions called out in the labels and operating instructions prior to use. Any hazards to safe and proper operation must be eliminated prior to use.

The manufacturer is not responsible for damages resulting from an improper application or use of this product. Proper application also means considering the operating instructions, workplace geometry, workplace hazards and the conditions of inspection and maintenance.

The user must have a rescue plan, be trained in the use of this plan and the means at hand to implement it when using this equipment.

Damaged products and products having already been used for arresting a fall must be removed from service.

Whenever the structure to which this Lug is attached is altered, the suitability of the Lug as an anchorage must be confirmed or recertified by a qualified person. Periodic inspections should be conducted by this qualified person at least once yearly.

Always use a qualified person or trained engineer to determine if the structure to which the Lug is attached, is of sufficient strength to support the anticipated load. Always use this product only with shock absorbing lanyards or SRLs attached only to the dorsal d-ring of the workers harness.

## User Instructions

### 6161/6162 Skyline HLL Weld-on Lug



#### Warnings

- **Do not alter or attempt to repair the equipment.**
- **Do not replace bolts with any substitute.**
- **Use equipment for intended purpose only.**
- **Do not use combinations of components or subsystems, or both, which may affect or interfere with the safe function of each other.**
- **Do not expose equipment to chemicals which may produce a harmful effect. Consult the manufacturer in cases of doubt.**
- **Do not install around moving machinery and electrical hazards. Do not use equipment near sharp edges and abrasive surfaces that may abrade or cut lanyards. Avoid exposure to physical and chemical hazards which the product is not designed to withstand.**
- **Make only compatible connections. This product may only be used in connection with an anchorage for a safety harness or horizontal lifeline as per ANSI Z359.1. This product is designed for usage in conjunction with a full body harness and compatible anchorage devices. Only approved safety devices that comply with ANSI Z359.1 and OSHA regulations may be used with this product.**
- **Follow all limitations to the use of this Weld-on Lug as outlined in the section “Proper Method of Use.”**

## Inspection, Maintenance and Storage

The user of this product is responsible for the execution of inspection, maintenance and possible repairs. The user shall inspect equipment before each use to ensure that the equipment is in serviceable condition and operating correctly.

A yearly inspection of this product should be performed by a qualified person capable of determining the suitability for use.

In addition to this, the product must be checked for possible damages after any fall arrest load has been applied and is to be examined by an expert who must then decide if the product is suitable for further use.

The user must remove equipment from field service that has been subjected to a fall arrest. An authorized inspection is then required to determine if the product is suitable for further use.

When any inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be tagged as “**UNUSABLE**” and be permanently removed from service or undergo adequate corrective maintenance by means of an authorized inspection before return to service.

Most common defects are for example:

- Corrosion
- Absence of any elements affecting the equipment form, fit or function
- Evidence of defects in or damage to hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear
- Improper attachment to beam for intended use

Prior to installation equipment shall be stored in a cool, dry and clean place away from direct sunlight in a manner as to preclude damage from environmental factors such as heat, light, excessive moisture, oil, chemicals and their vapors or other degrading elements.

## Cleaning

Product may be cleaned with soap and water or solvents that do not contain chlorine or chemicals corrosive to steel or zinc.

**User Instructions**  
**6161/6162 Skyline HLL Weld-on Lug**



**Formal Inspection**

**Buyer/client:**

**Product description: Skyline HLL Dual Hole Weld-on Lug    Model No. 6161/6162**

**Date of purchase:**

**Date of first use:**

**Name of user:**

This formal inspection grid and log has to be filed at the buyers department of occupational health and safety and is to be sent along with the product for the annual formal inspection through a competent person. Only completely inspected products are subject of the product warranty and liability of the distributor and manufacturer.

**Inspected according to specifications outlined by manufacturer:**

By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature

By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature

By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature

The inspector confirms with his signature the compliance of his inspection with all specifications as outlined by the manufacturer and as required by standards and regulations pertaining to occupational health and safety and fall protection.

**User Instructions**  
**6161/6162 Skyline HLL Weld-on Lug**



**Checklist**

**HLL Weld-on Lug, Model No.: 6161/6162**

	1. Year	2. Year	3. Year	4. Year	5. Year	6. Year
	Date	Date	Date	Date	Date	Date
By a qualified person:	Inspector	Inspector	Inspector	Inspector	Inspector	Inspector

**Weld-on Lug:**

Welded on all sides						
No Corrosion						
No deformation						
Functioning condition						
No changes to attachment structure						

© Copyright by Reliance Industries, LLC - Excerpts and duplication of this formal inspection grid and log only with prior consent