

# Pulleys and Travelers User Instructions



## General Safety Information

These *User Instructions* are not to be removed except by the user of this equipment. *User Instructions* must always be available to the user.

### WARNING

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users must read and understand the *User Instructions* provided with the product and be properly trained by their employer prior to use per OSHA 29 CFR 1910.66 and 1926.503 or applicable local standards. **Misuse or failure to follow warnings and instructions may result in serious personal injury or death.** For proper use, see supervisor, *User Instructions*, or call Technical Service at 1-800-560-1094.

## Purpose

3M Pulleys and Travelers are designed to be used as part of a work positioning, travel restraint, or personal fall arrest system.

## Use Instructions

1. Failure to follow all instructions and limitations on the use of Pulleys and Travelers may result in serious personal injury or death.
2. Before using a personal fall arrest system, employees shall be trained in accordance with the requirements of OSHA 29 CFR 1910.66 in the safe use of the system and its components.
3. Personal fall arrest systems, including Pulleys and Travelers, shall be inspected prior to each use for wear, damage, and other deterioration and defective components must be immediately removed from service, in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.
4. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
5. Users must have a rescue plan, and the means at hand to implement it, that provides the prompt rescue of employees in the event of a fall, or assures that employees are able to rescue themselves.
6. Store Pulleys and Travelers in a cool, dry, clean environment, out of direct sunlight, when not in use.
7. After a fall occurs, Pulleys and Travelers must be removed from service and marked for disposal.

## Use Limitations

1. Pulleys and Travelers are designed for single users only.
2. Pulleys and Travelers must only be used with systems attached to structures capable of supporting static loads applied in all directions permitted by: the *fall arrest system* of at least 3,600 lbs. (16.0 kN) with certification of a qualified person, or 5,000 lbs. (22.2 kN) without certification; the *positioning system*, of two times the foreseeable force with certification of a qualified person, or 3,000 lbs. (13.3 kN) without certification; the *travel restraint system*, of two times the foreseeable force with certification of a qualified person, or 1,000 lbs. (4.5 kN) without certification.
3. Do not use Travelers to change the direction of the rope or cable lifeline.
4. Travelers are designed only as a mobile anchorage connector for horizontal lifelines.
5. Pulleys and Travelers are designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
6. Do not expose Pulleys and Travelers to chemicals or harsh solutions which may have a harmful effect. Contact 3M Technical Service with any questions.
7. Caution must be taken when using Pulleys and Travelers near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
8. Minors, pregnant women and anyone with a history of either back or neck problems should not use this equipment.
9. Do not use or install equipment without proper training from a “competent person”, as defined by OSHA 29 CFR 1926.32(f).
10. Only 3M, or persons or entities authorized in writing by 3M, shall make repairs or alterations to the equipment.

## Compatibility Limitations

All 3M Pulleys and Travelers must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snaphooks from being engaged to certain objects unless two requirements are met: it must be a locking type snaphook, and it must be “designed for” making such a connection. “Designed for” means that the manufacturer of the snaphook specifically designed the snaphook to be used to connect to the equipment in question. The following connections must be avoided, as they are conditions that can result in rollout when a nonlocking snaphook is used:

Part Number	Material	Type	Maximum Line Size	Connection	Minimum Breaking Strength	Weight	Standard
0216-R	Aluminum Alloy	Traveler	0.5 in. (14mm) Rope/Cable	0.63 in. (16mm)	5,000 lbs. (22.2kN)	0.2 lbs. (94g)	OSHA 1910.66, OSHA 1926.502
99-0217	Zinc Plated Steel	Pulley	0.19 in. (5mm) Cable	0.78 in. (20mm)	5,000 lbs. (22.2kN)	2.2 lbs. (998g)	OSHA 1910.66, OSHA 1926.502
99-0219	Aluminum Alloy	Pulley Traveler	0.63 in. (16mm) Rope	0.63 in. (16mm)	6,000 lbs. (22.2kN)	0.3 lbs. (159g)	OSHA 1910.66, OSHA 1926.502



# Pulleys and Travelers User Instructions



- Direct connection of a snaphook to horizontal lifeline.
- Two (or more) snaphooks connected to one D-ring.
- Two snaphooks connected to each other.
- A snaphook connected back on its integral lanyard.
- A snaphook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snaphook dimensions that would allow the snaphook keeper to be depressed by a turning motion of the snaphook.

## Performance

3M Pulleys and Travelers meet the 5,000 lb. tensile strength when statically tested in accordance with the requirements of the ANSI Z359.1-2007 standard.

## Installation

Twist both sides of Pulley or Traveler open to allow insertion of cable or rope. Insert cable or rope and twist both sides to original position. Lock sides together by attaching carabiner or snaphook to the opening on the Pulley or Traveler.



## Inspection

All Pulleys and Travelers must be inspected prior to each use, and additionally by an OSHA defined competent person other than the user annually.

All rope must be inspected for tears, cuts, fraying, abrasion, discoloration, burns, holes, mold, or other signs of wear and damage.

Cable must be inspected for kinks, broken strands, corrosion, abrasion, or other signs of wear and damage. Swaged terminations should be secure with the thimble tight, and not visibly damaged.

**Any equipment that has been subjected to the forces of a fall must be removed from service.**

All Pulleys and Travelers must be free of corrosion, chemical attack, alteration, excessive heating or wear.

All markings must be legible and attached to the product.

**If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove from service and mark for disposal.**

**Note: Only manufacturer, or entities authorized in writing by the manufacturer, may make repairs to the product.**

## Cleaning and Maintenance

Pulleys and Travelers can be wiped down with a dry cloth to remove dirt and grease. No maintenance is required for this product. If inspection reveals any defect, remove from service and mark for disposal.

## Product Warranty, Limited Remedy, and Limitation of Liability

**WARRANTY:** THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Equipment offered by 3M is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon notice in writing, 3M will promptly repair or replace all defective items. 3M reserves the right to elect to have defective item returned to its plant for inspection before making a repair or replacement. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, or other damage beyond the control of 3M. 3M shall be the sole judge of product condition and warranty options. This warranty applies only to original purchaser and is the only warranty applicable to our products. A *Return Goods Authorization Number (RGA)* must be issued by 3M on all returns for warranty consideration. All returns must be shipped to 3M freight prepaid. Please contact 3M customer service department at 1-800-560-1094 for warranty assistance.

**LIMITATION OF LIABILITY:** In no event will 3M be liable for any indirect, incidental, special or consequential damages including, but not limited to loss of profits, in any way related to the products regardless of the legal theory asserted.

### 3M Occupational Health & Environmental Safety Division

4551 Raceway Drive SW  
Concord, NC 28027  
USA  
Phone 1-800-560-1094  
Fax 1-800-560-1275  
www.SafeWaze.com  
www.3M.com/OccSafety

Please recycle. Printed in USA.  
© 2010  
3M is a trademark of 3M Company,  
used under license in Canada.  
All rights reserved.  
IM-0042 Rev A 11-2010