

Concrete Anchor Straps

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 800-243-4630.

Purpose

The 3M Concrete Anchor Straps are designed to be used as part of a personal fall arrest system, to help limit the fall arrest forces in the event of a fall.

Use Instructions

1. Failure to follow all instructions and limitations on the use of Concrete Anchor Straps may result in serious personal injury or death.
2. Before using a personal fall arrest system, employees must 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 Concrete Anchor Straps, must 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 Concrete Anchor Straps in a cool, dry, clean environment, out of direct sunlight, when not in use.
7. After a fall occurs, the Concrete Anchor Straps must be removed from service and destroyed immediately.

Use Limitations

1. Concrete Anchor Straps are designed for single users only.
2. Concrete Anchor Straps must only be used on structures capable of supporting static loads applied in all directions permitted by the fall arrest system of at least:

- 3,600 lb (16.0 kN) with certification of a qualified person, or 5,000 lb (22.2 kN) without certification.
3. Concrete Anchor Straps are designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
4. Do not expose Concrete Anchor Straps to chemicals or harsh solutions which may have a harmful effect. Contact 3M Technical Service with any questions.
5. Caution must be taken when using Concrete Anchor Straps near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
6. Minors, pregnant women and anyone with a history of either back or neck problems should not use this equipment.
7. Do not use or install equipment without proper training from a “competent person” as defined by OSHA 29 CFR 1926.32(f).
8. Only 3M, or persons or entities authorized in writing by 3M, shall make repairs or alterations to the equipment.

Compatibility Limitations

All 3M Concrete Anchor Straps 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: snaphook must be a locking type and 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:

- 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.

***Rollout:** A process by which a snaphook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.1-2007)

Performance

3M Concrete Anchor Straps have a minimum tensile breaking strength of 5,000 lb (22.2 kN) when statically tested in accordance with the requirements of the ANSI Z359.1-07 standard.

Part Number 3M ID	Material	Length	Wear Pad	Connection	Weight	Compliance Standards
4823 70071532512	10,000 lb Polyester Web	48 in (1.2 m)	Polyester	2" Stamped Steel D-ring	9 oz (255 g)	ANSI Z359.1-07
4824 70071532520	10,000 lb Polyester Web	48 in (1.2 m)	NA	2" Stamped Steel D-ring	8 oz (227 g)	ANSI Z359.1-07
4825 70071532538	10,000 lb Polyester Web	48 in (1.2 m)	NA	4" Soft Loop	5 oz (142 g)	ANSI Z359.1-07



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Installation

Concrete Anchor Straps must be installed on structures capable of meeting the anchorage strength requirements of OSHA 29 CFR 1910.66 and 1926.502.

Concrete Anchor Straps may be installed in walls, ceilings, or floors. Attach the Concrete Anchor Strap to the rebar by either sliding the soft loop over the rebar, or chocking the soft loop around the rebar. The orientation of the web exiting poured concrete in a vertical application must be such that the webbing does not fold over. It must lay flat as shown in Fig 1. The label on the Concrete Anchor Strap must be viewable after installation. The anchoring rebar must be at least 4" (100 mm) from the outside face of the poured concrete.

Concrete Anchor Straps with a protective sleeve must be installed such that the protective sleeve partially exits the concrete. Where rebar is exposed and not in poured concrete the rebar must be #7 or greater with stirrups. The orientation of the rebar is permitted vertically or horizontally.

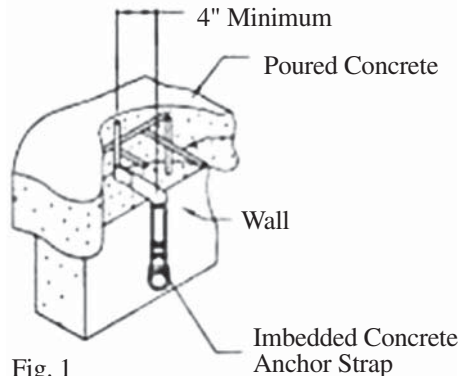


Fig. 1

Inspection

All Concrete Anchor Straps must be inspected prior to each use, and additionally by an OSHA defined "competent person" other than the user annually.

If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove from service and destroy.

Any equipment that has been subjected to the forces of arresting a fall must be immediately removed from service and destroyed.

To inspect webbing, bend a portion of the webbing 6-8" into an upsidedown 'U' shape. All webbing must be inspected for tears, cuts, fraying, abrasion, discoloration, burns, holes, mold, pulled or broken stitches, or other signs of wear and damage.

Sewn terminations should be secure, complete, and not visibly damaged.

All Concrete Anchor Straps must be free of corrosion, chemical attack, alteration, excessive heating or wear.

All markings must be legible and attached to the product.

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

Cleaning and Maintenance

No cleaning or maintenance is required for this product. If inspection reveals any defect, remove from service.



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 repair or replace all defective items at 3M's sole discretion. 3M reserves the right to require that the defective item be returned to its plant for inspection before determining the appropriate course of action. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, failure to maintain the product 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 this product. Please contact 3M technical service department at 800-243-4630 for 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

3M Center Building 235-2W-70
Saint Paul, MN 55144-1000
USA

Technical Assistance: 800-243-4630 in U.S.
and 800-267-4414 in Canada
www.3M.com/FallProtection
www.3M.com/PPESafety



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