



## Miller Residential Roofing Safety at Height Solutions



- Residential Roofing Requirements
- Temporary & Permanent Roof Anchors
- Body Wear and Connecting Devices
- Fall Protection Kits

**MILLER**<sup>®</sup>

by Honeywell

# Residential Construction/Roofing

According to data from the department's Bureau of Labor Statistics, an average of **40 deaths** each year are attributed to falls from residential roofs.

As a result, the Occupational Safety and Health Administration (OSHA) recently announced new fall protection requirements for Residential Construction. The new directive requires all residential builders to comply with 29 Code of Federal Regulations 1926.501(b)(13).

Under the Code, workers engaged in residential construction six (6) feet or more above lower levels are to be protected by conventional personal fall protection.

For roofers, the 25 foot, ground-to-eave height threshold no longer applies, nor do slide guards as an acceptable form of fall protection, regardless of the roof pitch or height of the roof eave.

These new requirements replace the Interim Fall Protection Compliance Guidelines for Residential Construction, Standard 03-00-001 that have been in effect since 1995 and allowed residential builders to bypass fall protection requirements.

## To be classified as residential construction, two elements are required:

1. The end use of the structure being built must be a residential home or dwelling.
2. The structure being built must be using traditional wood frame construction materials and methods.
  - The limited use of steel I-beams to support wood framing still qualifies the structure as residential construction.

## Under the Code,

workers engaged in residential construction over six (6) feet above ground level are to be protected by conventional personal fall protection.



## Know the proper training required

### Under 29 Code CFR 1926.503 training must include:

- A clear understanding of fall hazards in the work area
- How to erect, maintain, disassemble and inspect the fall protection systems being used
- How to use and operate the fall protection systems being used
- All relevant Subpart M requirements
- Documentation of the latest training certification must be maintained
- Worker knowledge is inadequate or use of fall protection indicates retraining is necessary

Retraining is required when changes in the workplace occur or when fall protection systems change.

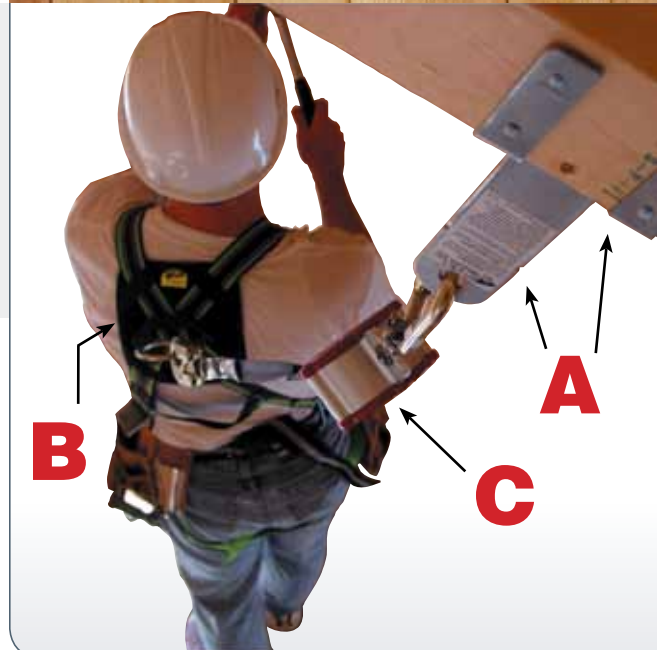


## Know what you need

### Key Fall Protection System Components

Three components of the Personal Fall Arrest System (PFAS) must be in place and properly used to provide maximum worker protection. Individually these components will not provide protection from a fall. However, when used properly and in conjunction with one another, they form a PFAS that becomes vitally important for safety on the jobsite.

- A** - **Anchorage/Anchorage Connector**
  - Anchorage: Commonly referred to as a tie-off point
  - Anchorage Connector: Used to join the connecting device to the anchorage
- B** - **Body Wear**
  - The personal protective equipment worn by the worker
- C** - **Connecting Device**
  - The critical link that joins the body wear to the anchorage/anchorage connector



# Residential Construction/Roofing

## Know equipment options available

### Proper Product Selection

A variety of residential fall protection equipment is available and adaptable to many roofing applications and styles of roofs. Selecting the 'proper' equipment is often based on preference, ease of use and cost. Apart from harnesses and connecting devices that are typically 'universal' in use for fall protection, only selecting an anchorage will require specific consideration.



### Miller Single D™ Anchorage

#### Permanent Anchorage Solution

- Single D Roof Anchor (RA41/)
- Harness (E650/UGN)
- Rope Lifeline (300L)
- Rope Grab/Lanyard (8175SLS/3FTYL)



### Miller Claw™ Anchorage

#### Permanent Anchorage Solution

- Claw Anchor (RA45/)
- Harness (E650/UGN)
- Rope Lifeline (300L)
- Rope Grab/Lanyard (8175SLS/3FTYL)

### Titan ReadyRoof® Kit

#### Temporary Anchorage Solution

- Reusable Roof Anchor (RA15-1)
- Titan Harness (T4000/UAK)
- Rope Lifeline (300L)
- Rope Grab (8173/U)
- Lanyard (T6111/3FTAF)





## **A** ANCHORAGE CONNECTORS

### Miller Temporary & Permanent Roof Anchors

- Permanent anchors are constructed of stainless steel for longer service life
- Accommodates single user for fall protection
- Reusable Roof Anchors are used to provide temporary, reusable roof anchorage for residential construction applications.

#### Permanent Roof Anchors

Item #	Description
RA41/	Single D™ permanent roof anchor is designed to provide one (1) D-ring anchorage point when securely installed on a <b>wood roof sub-surface ridge peak or vertical wall</b> ; Complete with 8, 16d nails.
RA40/	Double D™ permanent roof anchor is designed to provide two (2) D-ring anchorage points when securely installed on a <b>wood roof sub-surface ridge peak</b> ; Complete with 8, 16d nails.
RA45/	The Claw™ permanent roof anchor is designed to provide a single anchorage point when securely installed on a <b>wood rafter or truss member</b> ; Fits wood sizes 2-in. x 4-in., 2-in. x 6-in., 2-in. x 8-in., 2-in. x 10-in. or 2-in. x 12-in.

#### Temporary Roof Anchors

RA15-1	The RA15-1 comes complete with ten (10) reusable anchors, D-rings and screws. For use on both <b>wood and metal roofing</b> - different screws required.
RA20-1	The RA20-1 comes complete with (2) reusable anchors with screws. For use on <b>wood roofing</b> only.
RA30-1/	The RA30-1/ comes complete with twelve (12) 16d steel nails and six (6) ¼" X 2 ½" lag screws. For use on steep-pitched or flat roofs
RA35-1/	The RA35-1/ should be used on flat surfaces. It comes with attached swivel D-ring for simplified maneuverability.
X10040	Miller Fusion™ Roof Anchor Post, for wood design, installs into plywood with minimum thickness of 5/8-in. (15.9 mm) CDX.



# Residential Construction/Roofing

## B BODY WEAR

### Miller Body Wear

- Lightweight, durable webbing for all day comfort and dependability
- DuraFlex® harnesses feature specially-formulated elastomer webbing that stretches for greater comfort
- The Miller Revolution™ harness reinvents harness safety and functionality with over 11 key features developed to meet user-identified needs.

Titan™ Harnesses	
Item #	Description
T4000/UAK	Titan™ non-stretch harness w/mating buckle chest and leg straps; Universal-sized (L/XL), 400 lbs. capacity.
Miller® Harnesses	
650/UYP	Miller non-stretch harness w/mating buckle chest and leg straps; friction buckle shoulder straps; pull-up adjustment; 400 lbs. capacity.
E650/UGN	Miller DuraFlex® stretchable harness w/mating buckle chest and leg straps; friction buckle shoulder straps; 400 lbs. capacity.
RDT-QC/UBK	Miller Revolution™ harness w/quick-connect chest and leg straps; DualTech™ webbing; Universal-sized (L/XL), 400 lbs. capacity.



T4000/UAK



RDT-QC/UBK



E650/UGN

## C CONNECTING DEVICES

### Miller Connecting Devices

- Miller rope grabs move easily up and down vertical lifelines to provide continuous fall protection.
- Trailing rope grabs offer complete hands-free operation for increased productivity.

Miller® Rope Grabs	
Item #	Description
8175SLS/3FTYL	Stainless steel trailing rope grab for use with 5/8-in. (16 mm) rope with attached 3-ft. (1 m) web lanyard with locking snap hook and SofStop® shock absorber.
8175WLS/3FTYL	Stainless steel trailing rope grab for use with 5/8-in. (16 mm) rope with attached 3-ft. (1 m) web lanyard with locking snap hook.
Miller® Lifelines	
300L/25FTBL	25-ft. (8 m) Polyester/Polypropylene blend rope lifeline with locking snap hook and loop; 5/8-in. (16 mm) diameter.
300L/50FTBL	50-ft. (15 m) Polyester/Polypropylene blend rope lifeline with locking snap hook and loop; 5/8-in. (16 mm) diameter.



8175SLS/3FTYL



8175WLS/3FTYL



300L/50FTBL

## Fall Protection Kits

- Easy to use kits provide the necessary equipment for roof safety and compliance.

Titan B-Complaint™ Roofing Kits	
Item #	Description
TRK2000/25FT	Universal-sized (L/XL), full-body harness with 3-point adjustment – mating buckle leg and chest straps; Rope grab with permanently-attached, 3-ft. (.9 m) lanyard with shock absorber pack; High-strength, 25-ft (7.6 m) 5/8-in. (16 mm) diameter, polypropylene blend rope lifeline with locking snap hook; Reusable stainless steel roof anchor bracket with plated D-ring and waterproof container.
TRK2000/50FT	Universal-sized (L/XL), full-body harness with 3-point adjustment – mating buckle leg and chest straps; Rope grab with permanently-attached, 3-ft. (.9 m) lanyard with shock absorber pack; High-strength, 50-ft (15.2 m) 5/8-in. (16 mm) diameter, polypropylene blend rope lifeline with locking snap hook; Reusable stainless steel roof anchor bracket with plated D-ring and waterproof container.
Titan ReadyRoof® Fall Protection System Kits	
BRFKT25/25FT	Universal-sized (L/XL), non-stretch harness w/tongue buckle leg straps; reusable roof anchor w/attachment D-ring; trailing rope grab; 3-ft. (0.9 m) pack-type, shock-absorbing lanyard; 25-ft. (7.6 m) rope lifeline; and waterproof container.
BRFKT50/50FT	Universal-sized (L/XL), non-stretch harness w/tongue buckle leg straps; Reusable roof anchor w/attachment D-ring; Trailing rope grab; 3-ft. (0.9 m) pack-type, shock-absorbing lanyard; 50-ft. (15 m) rope lifeline; and waterproof container.
BRFK50/50FT	Universal-sized (L/XL), non-stretch harness w/mating buckle leg straps; reusable roof anchor w/attachment D-ring; trailing rope grab; 3-ft. (0.9 m) pack-type, shock-absorbing lanyard; 50-ft. (15 m) rope lifeline; and waterproof container.
Titan™ Roofing Fall Protection Kits	
TRK4000/25FTAK	Universal-sized (L/XL), non-stretch harness w/mating buckle leg straps; 3-ft. (0.9 m) pack-type, shock-absorbing lanyard; reusable roof anchor w/attachment D-ring; trailing rope grab; and 25-ft. (7.6 m) rope lifeline.
TRK4000/50FTAKU	Universal-sized (L/XL), non-stretch harness w/mating buckle leg straps; 3-ft. (0.9 m) pack-type, shock-absorbing lanyard; reusable roof anchor with attachment D-ring; trailing rope grab; and 50-ft. (15 m) rope lifeline.
Titan ReadyWorker™ Fall Protection Kits	
TFPK-2/U/6FTAK	Universal-sized (L/XL), full-body harness with mating buckle chest strap and tongue buckle leg straps; 6-ft tubular shock-absorbing lanyard and waterproof container.
TFPK-3/U/6FTAK	Universal-sized (L/XL), full-body harness with mating buckle chest strap, tongue buckle leg straps and side D-rings; 6-ft tubular shock-absorbing lanyard and waterproof container.
TFPK-6/U/6FTAK	Universal-sized (L/XL), full-body harness with mating buckle chest strap, tongue buckle leg straps and side D-rings; 6-ft tubular shock-absorbing lanyard; 6-ft. cross-arm strap and waterproof container.



TRK2000/25/FT



BRFK50/50FT



TRK4000/50FTAKU



TFPK-3/U/6FTAK

## Introducing New

### Miller TechLine™ Temporary Horizontal Lifeline (THLL) System Kits

Specially designed for use during residential roof construction

Miller TechLine™ Kits for Residential Construction	
Item #	Description
HLLR2/RR60FT	Two-worker Kit: 60 ft. Rope THLL system with reusable roof anchors
HLLR1/RR60FT	One-worker Kit: 60 ft. Rope THLL system with reusable roof anchors
HLLR0/RR60FT	60 ft. Rope THLL system with reusable roof anchors. No user equipment.



- Quick and easy to install, TechLine THLL system kits include all the components required for installing a fall protection roof system
- Kit configurations are available to accommodate 1 or 2 workers
- System kits are lightweight and portable
- Low-stretch, durable horizontal lifeline system provides 100% tie-off for continuous fall protection; provides a secure anchorage point(s) with less deflection/reduced fall clearance requirements
- Integrated vertical lifeline/rope grab components enhance worker mobility, productivity and safety

**▲** This equipment should only be used after reading the manufacturer's instructions. Failure to follow instructions could result in serious injury or fatality.



by Honeywell



Ask the Expert ... Ask Miller.

800/645-5373

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