

Miller TechLine™ Residential

Temporary Horizontal Lifeline System for Residential Roof Construction

Description

Temporary Horizontal Lifeline System for roofing applications. System includes all necessary hardware, components and instructions for complete installation.

Materials

Rope:

- 1 1/16 in. (17.5 mm) diameter, black static kernmantle
- 12,000 lb. (53.4kN) minimum tensile strength; polyester cover over nylon core
- Environmentally stable
- Low elongation
- High abrasion resistance

Line

Adjuster:

- Zinc-plated steel tensioner rated at 5,000 lbs. (22.2kN)

In-Line Shock Absorber:

- Designed to limit forces to 2,500 lbs. (11.2kN) which provides a 2:1 safety factor for 5,000 lb. (22.2kN) anchorage.

Snap Hook:

- Zinc-plated, forged alloy steel
- Proof tested to 3,600 lbs. (16kN)
- 5,000 lb. (22.2kN) minimum tensile strength

O-Rings:

- Zinc-plated 1/4 in. x 2 in. (6mm x 5cm) diameter
- Forged alloy steel
- 5,000 lb. (22.2kN) minimum tensile strength

Roof Anchor:

- 1/4" (6 mm) thick, laser-cut, yellow zinc-plated steel anchor plates
- Yellow zinc-plated steel anchor pins
- 3" (76.2 mm) O.D. Forged zinc-plated steel O-Ring
- 3-ply nylon belting
- 22-lin (21" (533.4 mm)) zinc-plated steel chain
- Copper rivets
- 5/16" x 2-1/2" (7.9 mm x 63.5 mm) galvanized steel lag screws (includes 8)



Technical

Maximum Capacity:

Two workers at 310 lbs. (140.6kg) each
Includes in-line shock absorber and (2) O-rings

Certification

OSHA 1926.502

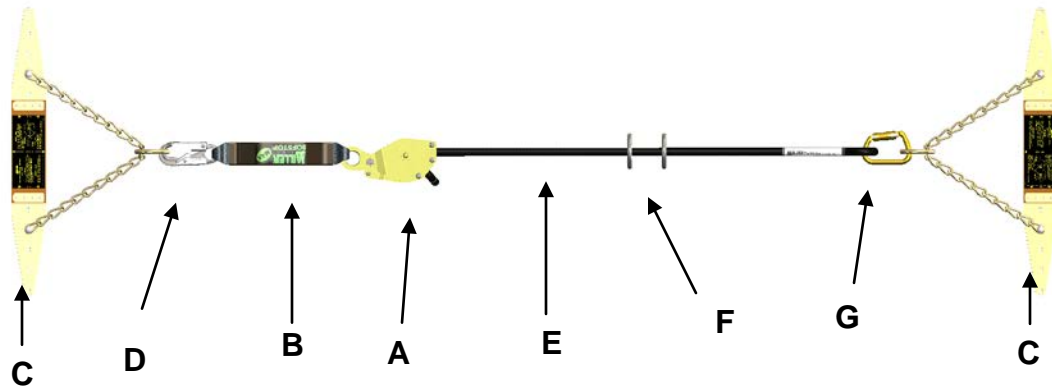
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SKU	Description	Kit Contents
TechLine Residential HLL Kits with RA30-2 Roof Anchors		
HLLR0/RR60FT	Temporary Rope HLL System rated for 2 workers; 60 ft. (18m) lifeline (Does not include personal fall arrest equipment)	11/16-in. (17.5mm) kernmantle-style rope lifeline / Lifeline adjuster / Two (2) RA30-2 roof anchors / Shock absorber / Two (2) connecting O-rings / Storage bag
HLLR1/RR60FT	Temporary Rope HLL System rated for 2 workers; 60 ft. (18m) lifeline (Includes personal fall arrest equipment for 1 worker)	11/16-in. (17.5mm) kernmantle-style rope lifeline / Lifeline adjuster / Two (2) RA30-2 roof anchors / Shock absorber / Two (2) connecting O-rings / One (1) Titan™ full-body harness (T4000/UAK) / One (1) 3 ft. (0.9m) Titan™ lanyard with SofStop® shock absorber (T6111/3FTAF) / One (1) Miller MicroLoc™ trailing rope grab (8173/U) / One (1) 50 ft. (15m) vertical lifeline (300C/50FTBL) / Storage bag
HLLR2/RR60FT	Temporary Rope HLL System rated for 2 workers; 60 ft. (18m) lifeline (Includes personal fall arrest equipment for 2 workers)	11/16-in. (17.5mm) kernmantle-style rope lifeline / Lifeline adjuster / Two (2) RA30-2 roof anchors / Shock absorber / Two (2) connecting O-rings / Two (2) Titan™ full-body harnesses (T4000/UAK) / Two (2) 3 ft. (0.9m) Titan™ lanyards with SofStop® shock absorber (T6111/3FTAF) / Two (2) Miller MicroLoc™ trailing rope grabs (8173/U) / Two (2) 50 ft. (15m) vertical lifelines (300C/50FTBL) / Storage bag

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A. TENSIONER

Used to adjust the length of the rope, indicate proper pre-tension and maintain tension.

B. IN-LINE SHOCK ABSORBER

Designed to limit forces to 2,500 lbs. (11.2kN) which provides a 2:1 safety factor for 5,000 lb. (22.2kN) anchorages.

C. RA30-2 ROOF ANCHOR

Used to secure lifeline to anchorage point.

D. SNAP HOOK

Self-locking snap hook used to connect the end of the lifeline to an approved anchorage connector.

E. LIFELINE

11/16 in. (17.5 mm) black static kernmantle rope used to span between two anchorage connectors.

F. O-RINGS

Used to connect worker's shock-absorbing lanyard or self-retracting lifeline to the horizontal lifeline.

G. CARABINER

Auto-locking carabiner used to connect the end of the lifeline to an approved anchorage connector.

Fall Clearance Chart

Refer to the following table and "Total Fall Clearance Required" in the Fall Clearance Diagram to determine minimum required clearance from lifeline to surface or obstruction. (See Instruction Manual for warnings and information regarding swing fall.)

Total Fall Clearance Required for one worker connected to system with Miller shock-absorbing lanyard.		
Span Length (in Feet)*	Length of Lanyard (in Feet & Inches)	
	3 (0.9m)	6 (1.8m)
0-10 (0-3m)	19'-1" (5.82m)	22'-1" (6.73m)
11-20 (3.4-6.1m)	19'-8" (5.99m)	22'-8" (6.91m)
21-30 (6.4-9.1m)	20'-3" (6.17m)	23'-3" (7.11m)
31-40 (9.4-12.2m)	20'-10" (6.35m)	23'-10" (7.26m)
41-50 (12.5-15.2m)	21'-5" (6.53m)	24'-5" (7.44m)
51-60 (15.5-18.2m)	22'-1" (6.73m)	25'-1" (7.65m)

Total Fall Clearance Required for two workers connected to system with Miller shock-absorbing lanyards.		
Span Length (in Feet)*	Length of Lanyard (in Feet & Inches)	
	3 (0.9m)	6 (1.8m)
0-10 (0-3m)	19'-1" (5.82m)	22'-1" (6.73m)
11-20 (3.4-6.1m)	19'-9" (6.02m)	22'-9" (6.93m)
21-30 (6.4-9.1m)	20'-8" (6.3m)	23'-8" (7.21m)
31-40 (9.4-12.2m)	21'-8" (6.6m)	24'-8" (7.52m)
41-50 (12.5-15.2m)	22'-7" (6.88m)	25'-7" (7.8m)
51-60 (15.5-18.2m)	23'-7" (7.19m)	26'-7" (8.1m)

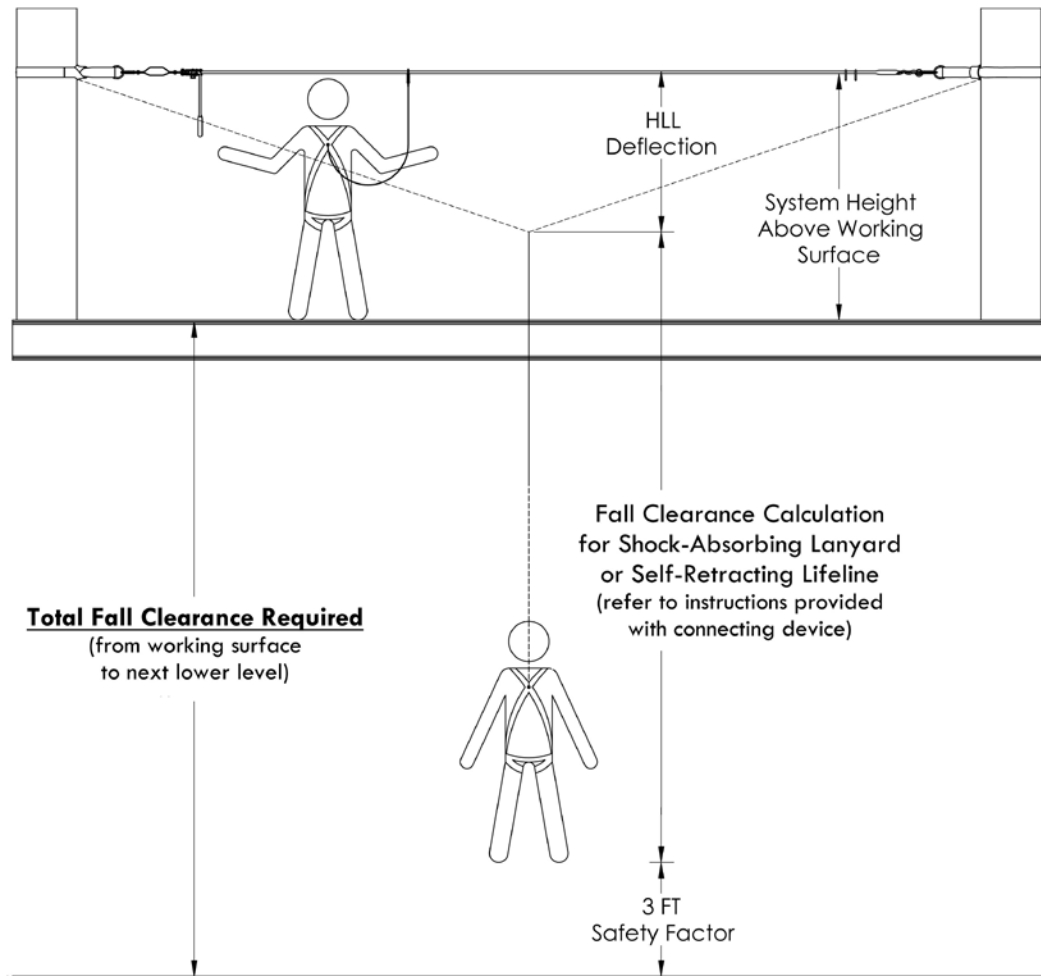
Total Fall Clearance Required for one or two workers connected to system with Miller self-retracting lifeline (SRL) or Miller rope grab and vertical lifeline.		
Span Length (in Feet)*	1 Worker	2 Workers
	0-10 (0-3m)	19'-1" (5.82m)
11-20 (3.4-6.1m)	19'-8" (5.99m)	19'-9" (6.02m)
21-30 (6.4-9.1m)	20'-3" (6.17m)	20'-8" (6.3m)
31-40 (9.4-12.2m)	20'-10" (6.35m)	21'-7" (6.58m)
41-50 (12.5-15.2m)	21'-5" (6.53m)	22'-7" (6.88m)
51-60 (15.5-18.2m)	22'-1" (6.73m)	23'-7" (7.19m)

*Span Lengths are provided in feet (meters); for lengths that fall between the span length ranges provided, round up or down to the nearest span length using standard rounding rules. (Ex.: For 30'-5", use the span length of 31-40 feet to determine required fall clearance. For 50'-2", use the span length of 41-50 feet to determine required fall clearance.)

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Fall Clearance Diagram



⚠ WARNING! Fall swing should be minimized at all times. Ensure that user's lanyard or self retracting life line is perpendicular to the horizontal life line. See Instruction Manual for warnings and information on swing fall.



by Honeywell

Toll Free 800.873.5242 (press 4) • hsptechsupport@honeywell.com • www.millerfallprotection.com

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