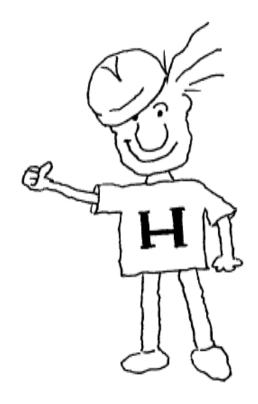
HORIZONTM

Horizontal
Lifeline
Subsystem

BELOW BEAM MOUNT



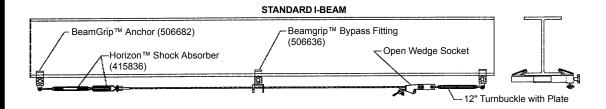
The Name in Safety at Heights And Confined Spaces
Rose Manufacturing Company = 2250 S. Tejon = Englewood, CO 80110
800-722-1231

10-29-97

P/N 690109 Rev. A

HORIZON[™] Horizontal Lifeline Subsystem **Component Specifications**

Below Beam Multiple Span Horizontal Lifeline



SPECIFICATIONS

Lifeline Length: 20 to 280 feet in spans up to 40 feet

Unsupported Span: 40 feet maximum

3/8" 7x19 Galvanized wire rope - minimum breaking Cable:

strength rated at 14,400 lbf

Compatibility: Available for all standard I-beams, complex steel

I-beams and custom shapes

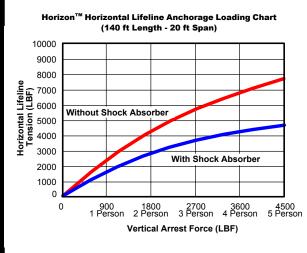
Support Equipment: Requires the use of an energy absorbing lanyard that

limits fall arrest forces to 900 lbf

Min. Anchorage Strength: 12,500 lbf lateral strength required for installation

PRODUCT DESCRIPTION

The Horizon[™] Horizontal Lifeline, with integral in line shock absorber, provides complete freedom of movement for the entire length of the lifeline without having to detach the workers' personal fall arrest system. The Horizon[™] Shock Absorber reduces line tension by up to 38% during a single fall condition. (See Anchorage Loading chart below.)



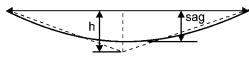
With Horizon Shock Absorber Wout Horizon Shock Absorber (140 ft Length - 20 ft Span)

Input Force	Line Tension (F2)	Change of Elevation (h1)	Line Tension (F3)	Change of Elevation (h)
1 Person	1,860 lbf	27 inches	2,280 lbf	38 inches
2 Person	3,000 lbf	39 inches	3,840 lbf	38 inches
3 Person	3,460 lbf	42 inches	4,480 lbf	42 inches
4 Person	4,000 lbf	44 inches	6,880 lbf	42 inches
5 Person	4,720 lbf	48 inches	7,640 lbf	48 inches

Based on 140 ft length with supported spans of 20 ft

F1 - Lanyard Energy Absorber rated at 900 lbf F2 - With Horizon™ Shock Absorber

F3 - Without Horizon™ Shock Absorber



HORIZON[™] Horizontal Lifeline Subsystem **Component Specifications**

Horizon[™] Shock Absorber Assembly

Offers easy tensioning adjustment and constant load energy absorption to provide lower anchorage forces.



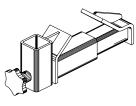
Horizon™ HLL Shock Absorber with Integral Turnbuckle P/N 415836

Material: High tensile alloy & stainless steel

Strength: 12,500 lbf minimum 6 inches nominal Adjustment: Length: 24 inches nominal

BeamGrip[™] Anchor Assembly

Allows quick and easy installation to standard beam sizes while offering over 12,500 lbf of lateral anchorage strength.



BeamGrip™ Anchor P/N 506682

Material: Carbon steel, yellow zinc plated

Strength: 12,500 lbf

I-Beam Compatibility: Wide range of sizes to accommo-

date most beams

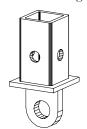
BeamGrip $^{\text{\tiny TM}}$ End Fitting, Part Number 506637. BeamGrip $^{\text{\tiny TM}}$ System Compatibility:

Bypass Fitting, Part Number

506636

BeamGrip[™] End Fitting

Used in conjunction with the BeamGrip[™] Anchor, pictured above, and is designed to allow orientation for anchorage loading in 3 directions.



BeamGrip™ End Fitting P/N 506637

Material: Carbon steel, yellow zinc plated

Strength: 12,500 lbf minimum

BeamGrip $^{\text{\tiny TM}}$ Anchor assembly, Part Number 506682 Compatibility:

Must use linkage components ap-Note:

proved for use with the Horizon T

Horizontal Lifeline only.

BeamGrip™ Bypass Fitting

Allows a worker to bypass an intermediate span support without disconnecting from the horizontal lifeline.



BeamGrip™ Bypass Fitting P/N 506636

Carbon steel, yellow zinc plated Material:

5,000 lbf vertical Strength:

5,000 lbf lateral

BeamGrip $^{\text{\tiny TM}}$ Anchor assembly, Part Compatibility:

Number 506682

HORIZON[™] Horizontal Lifeline Subsystem Component Specifications

12" Turnbuckle with Plate



12" Turnbuckle with Plate P/N 506662

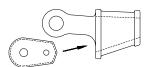
Material: High tensile alloy steel

Thread: Course, 1/2 inch

Range: Up to 12 inch adjustment

Usage: Line tensioning

3/8" Open Wedge Socket



3/8" Open Wedge Socket P/N 506563

Usage: Secures one end of HLL

Strength: 12,500 lbf

Features: Adjustable for line length

positioning

3/8" Wire Rope Clip



3/8" Wire Rope Clip P/N 506649

Usage: Secures wire rope end

3/8" Galvanized Wire Rope with Jaw End



3/8" Galvanized Wire Rope with Jaw End P/N 506648

Type: 7x19 Galvanized steel cable

Strength: 14,400 lbf tension

Length: 20 feet minimum depending on

application

3/8" Snatch Block Pulley



3/8" Snatchblock Pulley P/N 506663

Usage: Connects Rose Dyna-Locks &

Dynaevacs to 3/8ⁿ dia horizontal lifeline. Can be use only on single

span systems.

HORIZON[™] Horizontal Lifeline Subsystem Component Specifications

Full Body Harness



Full Body Harness P/N 502733

Sizes: x-small, standard, x-large, super x-

large

System Usage: Fall arrest, controlled descent,

ladder climbing, confined space entry and exit and worker position-

ing

D-ring locations: Back, chest and 2 hip

Weight: 3.5 lbs

Standards: Meets ANSI Z359.1, ANSI

A10.14, CSA Z259.10, OSHA

Capacity: 310 lbs including clothes, tools and

other user borne objects

Material: Nylon (polyester 502734)

Self Retracting Lanyard



Self Retracting Lanyard P/N 506208/ 506204

Usage: Single span systems

Max. Arrest Distance: 24 inches

Capacity: 310 lbs including clothes, tools and

other user borne objects

Standards: Meets ANSI Z359.1, ANSI

A10.14, OSHA

Self Retracting Lanyard



20' Backpacker P/N 506619 and P/N 506615

Usage: Single span systems

Max. Arrest Distance: 24 inches

Capacity: 310 lbs including clothes, tools and

other user borne objects

Standards: Meets ANSI Z359.1, ANSI

A10.14, OSHA

HORIZON[™] Horizontal Lifeline Subsystem Component Specifications

Carabiner



Material: High tensile alloy steel

Strength: 5,000 lbf
Proof Load: 3,600 lbf

Throat Opening: .875 inch minimum

Length: 3.7 nominal Weight: 0.6 lbs

Lanyard Shock Absorber

Lanyard Shock Absorber P/N 501226

Max. Arrest Distance: 42 inches

Max. Arrest Force: 900 lbf

Capacity: 130 to 310 lbs including clothes,

tools and other user borne objects

Material: Nylon or polyester

Compatibility: Equipped with snaphook or webbed

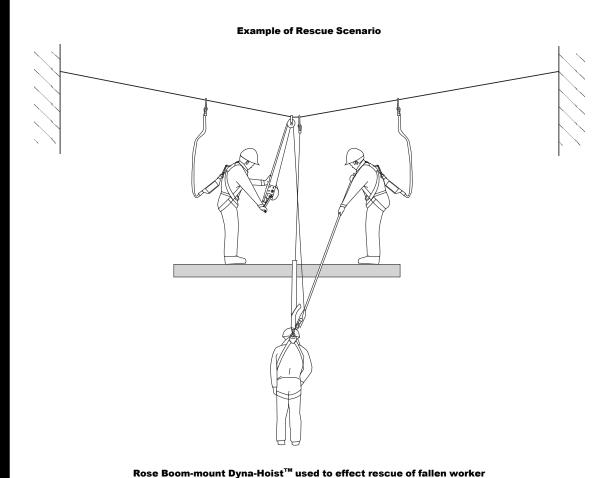
loop

Standards: Meets ANSI Z359.1, ANSI

A10.14, OSHA

RESCUE AND EVACUATION USING HORIZON HORIZONTAL LIFELINE SUSPENSION ANCHORAGE

The user must have a rescue plan and the means at hand to implement it. The plan must take into account the equipment and special training necessary to effect prompt rescue under all foreseeable conditions. Although a rescue plan and the means to implement it must always be in place, it is a good idea to provide means for user evacuation without assistance of others. This will usually reduce the time to get to a safe place and reduce or prevent the risk to rescuers. Rose Manufacturing Company offers a complete Rescue and Evacuation subsystem for use with the HORIZON horizontal lifeline subsystem, see diagram for subsystem components. Contact Rose for more information.



(Detail not shown. Drawing not to scale.)

HORIZON[™] Horizontal Lifeline Rescue Subsystem Component Specifications

Boom Mount Dyna-Hoist



Boom Mount Dyna-Hoist P/N 415774

Extension Pole P/N 506507

Load Capacity: 600 lbs

Weight: 45.9 lbs nominal

Payout: 50 ft (available up to 105 ft)

Cable: 7x19 Galvanized wire rope

Compatibility: Standard Rose RL-20 snaphook

with 3/4" throat opening

Remote Connect/Disconnect Extension Pole

Length: Adjustable from 8 feet to 15 feet in

6 inch increments

Weight: 4.1 lbs nominal

Tool Attachments: Remote connect head, lanyard

knife

Usage: Rescue operation, overhead

connect

Material: Fiberglass shell with aluminum

inner extension

member

Remote Connect Head

Usage:

Performs remote connection of

Rose RL-20 Snaphook

Weight:

0.5 lbs nominal

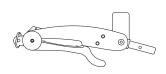
Material:

Cast aluminum



Remote Connect Head P/N 506589

Lanyard Knife



Lanyard Knife P/N 506591

Usage: Used to cut lanyard and strapping

Weight: 0.5 lbs nominal Material: Cast Aluminum

Blade: Surgical stainless steel