

# Aluminum Ladder Company

*We invented the Aluminum Fire Ladder*



# FIRE LADDERS



1-800-752-2526  
[www.fireladder.com](http://www.fireladder.com)



# Important Ladder Usage

Even the sturdiest, best-engineered piece of equipment must be used properly for maximum safety. The following recommendations will help you obtain maximum service and safety from your ALCO-LITE fire department ground ladders. These are only a few of the items you need to be aware of in using, inspecting, and testing of your ALCO-LITE fire department ground ladders. For additional information on proper usage, inspection, and testing, please refer to the current N.F.P.A. 1932 standard and the IFSTA fire department ground ladder standard. Those practices permitted in **BOTH** standards are recommended, and their safety procedures must be obeyed.

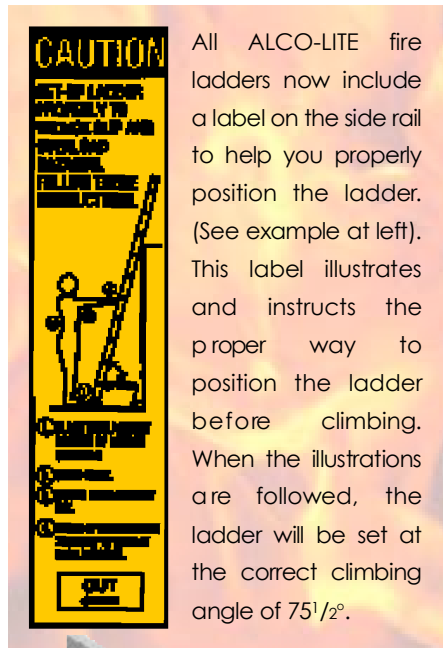
1. Inspect and test all ladders prior to placing in service.
2. Perform a visual inspection before and after every ladder usage.
3. All fire department ground ladders must be service tested in accordance with N.F.P.A. 1932 at least annually or any time the ladder integrity is suspected.
4. When carried on a truck, ladders must be fastened down with all contact points on mounting brackets padded to minimize abrasion.
5. Never store a ladder where it can be exposed to engine exhaust and heat.
6. Ladder shall be secured at the base, either by a fire fighter or mechanical means, to prevent slipping or displacement.
7. Ladder must be tied off at the top (whenever possible) to prevent slipping or displacement.
8. Always tie off the halyard to the base section prior to climbing.
9. Never overload a ladder. Refer to N.F.P.A. 1932 and the IFSTA standards for proper ladder loading. If a ladder is ever positioned at a reduced angle (further out than 1/4 the effective length), the load-carrying capacity is significantly reduced.
10. Always position the ladder at the proper 75 1/2° angle (diagram B). A ladder is safer and stronger when it is set at the proper 75 1/2° angle. This is approximately 1/4 of the distance to a support point out from the wall. See illustration in bottom right (diagram B).

$$\text{Correct placement (distance from wall, etc.)} = \frac{\text{total working length of ladder}}{4}$$

One of the most vital areas of ladder safety is the correct placement angle of your ladder. This illustration shows the exact method for proper placement of ladders of varying lengths. With this method, the ladder is placed against the vertical plane (wall, etc.) at a 75 1/2° angle. A simple formula for correct placement is to position the bottom of the ladder at a distance from the vertical plane equal to 1/4 the total working length of the ladder. At this angle, your ladder will give the best service and maximum strength.

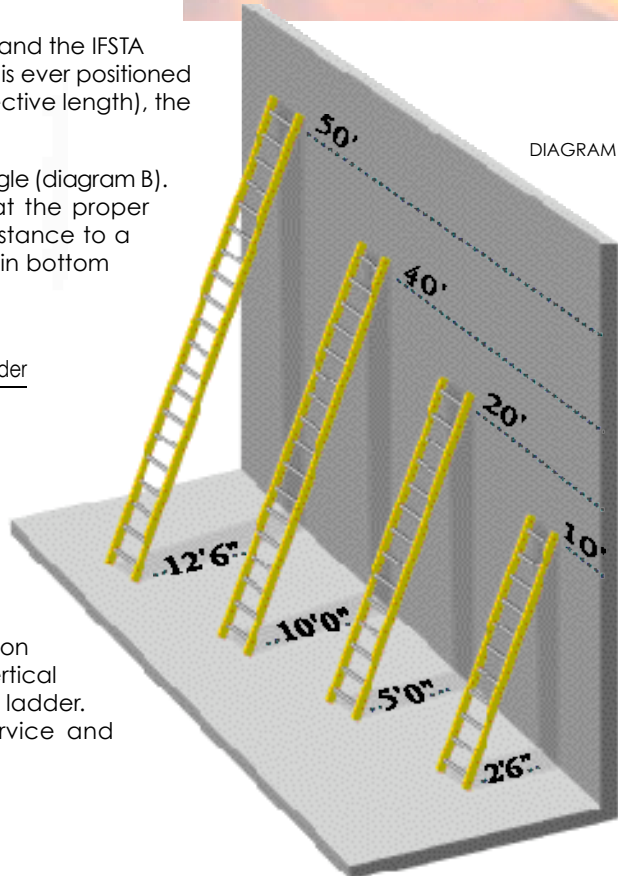
See page 17 for more safety guidelines.

DIAGRAM A



All ALCO-LITE fire ladders now include a label on the side rail to help you properly position the ladder. (See example at left). This label illustrates and instructs the proper way to position the ladder before climbing. When the illustrations are followed, the ladder will be set at the correct climbing angle of 75 1/2°.

DIAGRAM B



# ALCO-LITE® Fire Ladders

*We invented the aluminum fire ladder!*



In 1930, Sam Carbis invented the aluminum fire ladder and founded a new industry. Today, four generations later, his family continues to maintain the Aluminum Ladder Company (ALCO-LITE) as the leader in fire department ground ladder technology.

The ALCO-LITE name is synonymous with quality, dependability, and service. For these reasons, ALCO-LITE fire ladders are used by all types of departments -- paid and volunteer, large and small -- throughout the United States and the world. These departments have found, over the years, that ALCO-LITE is a name upon which you can stand.



All ALCO-LITE fire department ground ladders meet or exceed the applicable National Fire Protection Association (N.F.P.A.) standards for fire department ground ladders. These ladders are designed to be used in accordance with the practices established by both the National Fire Protection Association (N.F.P.A.) and the International Fire Service Training Association (IFSTA). For complete information on these practices, please contact the appropriate organization to obtain their most current documents relative to fire department ground ladders.

In addition to manufacturing aluminum ladders for over sixty-five years, we have manufactured fiberglass ladders for the industrial market for forty years. With that technology and experience behind us, we at Aluminum Ladder Company are pleased to offer fiberglass fire department ground ladders that provide an extra degree of safety when working around charged circuits.

Innovation, quality, dependability, and commitment to fire service have been the cornerstones of our business. That's why "it only makes sense to buy your fire ladders from the people who invented them".

# PRL Series

## ALUMINUM PUMPER TYPE ROOF LADDER

Model	Length	Width	Banking Thickness	Weight
PRL-08	8' 5"	18-1/2"	2-7/8"	27 lbs
PRL-10	10' 9"	18-1/2"	2-7/8"	33 lbs
PRL-12	12'	18-1/2"	2-7/8"	36 lbs
 PRL-14	14' 3"	18-1/2"	2-7/8"	42 lbs
 PRL-16	16' 7"	18-1/2"	2-7/8"	48 lbs
PRL-18	18' 10"	18-1/2"	2-7/8"	54 lbs
PRL-20	20'	18-1/2"	2-7/8"	60 lbs




PRL nests in base section of PEL or PEL3 series

Pumper type single wall ladder (PWL series), similar to roof ladder, is available upon request

High strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability

# PEL Series

## ALUMINUM TWO-SECTION PUMPER TYPE LADDER

Model	Extended Length	Closed Length	Width	Banking Thickness	Weight
PEL-12	12'	8' 5"	21"	5-1/16"	48 lbs
PEL-14	14'	9' 7"	21"	5-1/16"	53 lbs
PEL-16	16'	10' 9"	21"	5-1/16"	59 lbs
PEL-20	20'	12'	21"	5-1/16"	66 lbs
 PEL-24	24'	14' 3"	21"	5-1/16"	75 lbs
 PEL-28	28'	16' 7"	22"	5-13/16"	114 lbs
PEL-30	30'	17' 9"	22"	5-13/16"	122 lbs
 PEL-35	35'	20' 1"	22"	5-13/16"	139 lbs


Our best-selling extension ladder!

Oversized 2 1/4" pulley for easy operation

Companion to PRL roof ladder

# PEL3 Series

## ALUMINUM THREE-SECTION PUMPER TYPE LADDER

Model	Extended Length	Closed Length	Width	Banking Thickness	Weight
PEL3-24	24'	12' 2"	23-1/2"	7-1/4"	105 lbs
PEL3-28	28'	13' 4"	25"	8-1/4"	145 lbs
PEL3-30	30'	14' 6"	25"	8-1/4"	158 lbs
 PEL3-35	35'	15' 8"	25"	8-1/4"	170 lbs
PEL3-40	40'	17'	25"	8-1/4"	200 lbs
PEL3-40P	40'	17'	26"	8-1/4"	220 lbs

Oversized 2 1/4" pulley for easy operation

Staypoles optional on 40' (PEL3-40P)

PEL3-fly section activated by cable and operates automatically with center section

P - with staypoles

# description

ALCO-LITE pumper ladders have been the standard in the industry since 1930. Engineered and manufactured to exacting standards for use on general fire fighting trucks and pumper trucks.

- Field repairable with factory parts
- Huge inventory for fast shipment
- Special widths for replacement ladders available upon request
- All PEL and PEL3 extension ladders equipped with 1/2" diameter halyards
- Roof ladder equipped with reinforcing brace between hooks for increased rigidity
- Meets/exceeds N.F.P.A. 1931 standards
- Equipped with high strength steel butt spurs and rounded aluminum top caps for increased durability
- Oversized 2 1/4" pulley for easy operation



See page 18 for full details



Roof ladders have high strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability



High strength steel butt spurs protect rail ends and help secure base





# TRL Series

## ALUMINUM TRUSS TYPE ROOF LADDER

Model	Length	Width	Banking Thickness	Weight
TRL-12	12' 5"	19-1/16"	3-3/4"	43 lbs
TRL-14	14' 9"	19-1/16"	3-3/4"	50 lbs
TRL-16	16' 11"	19-1/16"	3-3/4"	56 lbs
TRL-18	18' 2"	19-1/16"	3-3/4"	60 lbs
TRL-20	20' 6"	19-1/16"	3-3/4"	65 lbs
TRL-24	24'	19-1/16"	3-3/4"	76 lbs
TRL-26	26' 4"	19-1/16"	5-7/16"	92 lbs
TRL-28	28' 8"	19-1/16"	5-7/16"	100 lbs

Designed for scaling roofs

TRL may be supplied wider to nest with another TRL or a TWL (add 3 1/2" in width)

Truss type single wall ladder (TWL series), similar to roof ladder, is available upon request

High strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability

# TEL Series

## ALUMINUM TWO-SECTION TRUSS TYPE LADDER

Model	Extended Length	Closed Length	Width	Banking Thickness	Weight
TEL-20	20'	13'	22-1/4"	6-7/16"	93 lbs
TEL-24	24'	15' 4"	22-1/4"	6-7/16"	110 lbs
TEL-28	28'	16' 6"	22-1/4"	6-7/16"	118 lbs
TEL-30	30'	17' 8"	22-1/4"	6-7/16"	126 lbs
TEL-35	35'	20'	22-1/4"	6-7/16"	141 lbs
TEL-40	40'	22' 4"	22-1/4"	6-7/16"	165 lbs
TEL-40P	40'	22' 4"	23-1/2"	8-1/8"	214 lbs
TEL-45P	45'	25' 10"	23-1/2"	8-1/8"	232 lbs
TEL-50P	50'	28' 2"	23-1/2"	8-1/8"	250 lbs

P - with staypoles

Oversized 2 1/4" pulley for easy operation

Ladders 45' and larger equipped with staypoles - optional on 40'

Companion to TRL roof ladder

# TEL3 Series

## ALUMINUM THREE-SECTION TRUSS TYPE LADDER

Model	Extended Length	Closed Length	Width	Banking Thickness	Weight
TEL3-24	24'	12'	25-3/8"	9-1/16"	142 lbs
TEL3-28	28'	13' 2"	25-3/8"	9-1/16"	154 lbs
TEL3-30	30'	14' 4"	25-3/8"	9-1/16"	163 lbs
TEL3-35	35'	15' 6"	25-3/8"	9-1/16"	175 lbs
TEL3-40	40'	16' 8"	25-3/8"	9-1/16"	190 lbs
TEL3-40P	40'	16' 8"	27"	9-1/16"	223 lbs
TEL3-45P	45'	19'	27"	10-3/4"	242 lbs
TEL3-50P	50'	20' 2"	27"	10-3/4"	273 lbs

P - with staypoles

Oversized 2 1/4" pulley for easy operation

Ladders 45' and larger equipped with staypoles - optional on 40'

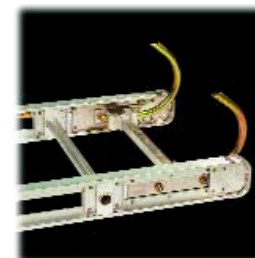
Companion to TRL roof ladder

TEL3-fly section activated by cable and operates automatically with center section

# description

ALCO-LITE truss construction ladders have been a tradition in the industry since their inception by our founder. Built with the same work ethic and craftsmanship as those of the 1930's, you can depend on their truly traditional quality.

- Field repairable with factory parts
- All TEL and TEL3 extension ladders equipped with 1/2" diameter halyards
- Equipped with high strength butt spurs and rounded aluminum top caps for increased durability
- TRL nests in base section of TEL or TEL3 models
- Truss design for maximum strength to weight ratio
- Meets/exceeds N.F.P.A. 1931 standard
- Strong - rugged - repairable
- Special width for replacement ladders available upon request
- Oversized 2-1/4" pulley for easy operation



Roof ladders have high strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability



High strength steel butt spurs protect rail ends and help secure base



**replaceable rungs**  
instructions on page 15







# CJL Series

## ALUMINUM COMBINATION LADDERS

ALCO-LITE combination ladders are functionally engineered for ease of operation as a step or extension ladder. Ideal for spanning fences, accessing windows or as a self-supporting ladder set up in the center of a room.

Model	Closed Length	Height in "A" Position	Width in "A" Position	Width	Banking Thickness	Weight
CJL-10	6' 2"	5' 10"	4' 3"	20-1/2"	6-3/8"	27 lbs
 CJL-12	7' 4"	7'	4' 11"	20-1/2"	6-3/8"	29 lbs
 CJL-14	8' 6"	8' 2"	5' 4"	20-1/2"	6-3/8"	33 lbs
CJL-16	9' 8"	9' 1"	6' 5"	20-1/2"	6-3/8"	38 lbs

- Converts easily to extension ladder or "A" ladder
- Ideal for spanning a fence, working on a light ballast, or in the center of a room
- Accessible from both sides
- Special heavy-duty "A" bracket allows for quick, easy set-up
- Compact design is easy to maneuver in tight hallways and stairwells
- Meets/exceeds N.F.P.A. 1931 standards
- Field repairable with factory parts



See page 18 for full details




Slip-resistant combination safety shoes on base section



# FL Series

## ALUMINUM FOLDING LADDERS

ALCO-LITE folding ladders offer the ultimate in portability for low to medium height access. Compact design fits easily on any service vehicle.

Model	Open Length	Folded Length	Folded Width	Open Width	Banking Thickness	Weight
FL-08	8' 3"	9' 3"	5-1/4"	15-1/2"	2"	12 lbs
 FL-10	10' 6"	11' 5"	5-1/4"	15-1/2"	2"	14 lbs
FL-12	12' 8"	13' 8"	5-1/4"	15-1/2"	2"	17 lbs
FL-14	14' 11"	15' 11"	5-1/4"	15-1/2"	2"	21 lbs



See page 18 for full details

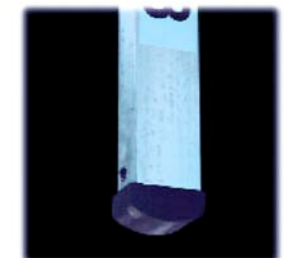
- Hinge locks ladder into open position
- Lightweight for easy carrying
- Large, heavy, cast aluminum swivel safety shoes assure best traction in many environments
- Folds laterally into 5-1/4" wide compact unit for easy storage and transportation
- Equipped with handles for safe, easy maneuvering and set-up
- Meets/exceeds all N.F.P.A. 1931 standards
- Designed for maximum one-man load
- Available with slip-resistant fixed rubber cap feet



Handles allow for safer, easy handling



Large, heavy, cast aluminum swivel safety shoes assure best traction in many environments



slip-resistant fixed rubber cap feet



# AEL Series

## ALUMINUM TWO-SECTION ATTIC LADDER

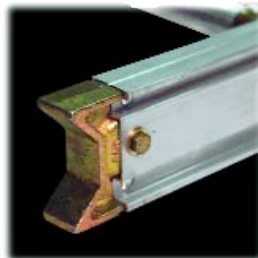
ALCO-LITE "Fresno" style attic ladders are ideal for use in accessing small attic openings or other medium height close quarter areas.

Model	Extended Length	Closed Length	Width	Banking Thickness	Weight
AEL-10	10'	7' 3"	13-1/2"	5-1/16"	41 lbs
AEL-12	12'	8' 5"	13-1/2"	5-1/16"	46 lbs
AEL-14	14'	9' 7"	13-1/2"	5-1/16"	51 lbs

- Optional heavy-duty swivel safety shoes available
- Meets/exceeds N.F.P.A. 1931 standards
- High strength steel butt spurs protect rail ends and help secure base
- Field repairable with factory parts



Optional slip-resistant combination safety shoes



High strength steel butt spurs protect rail ends and help secure base

**replaceable rungs**  
Instructions on page 15

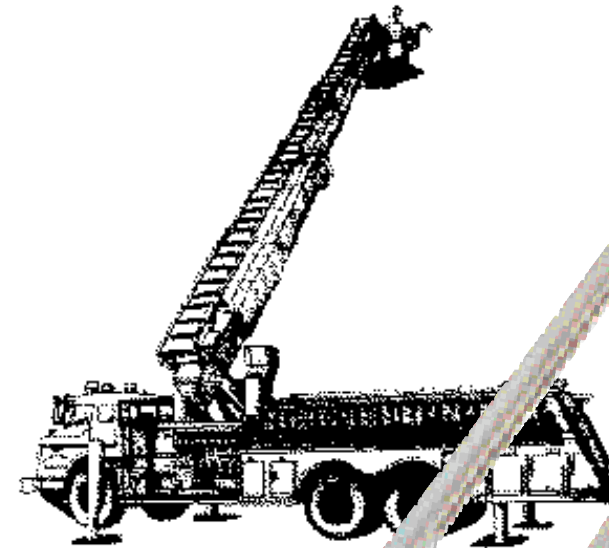


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# Boom Ladders

ALCO-LITE engineered telescoping boom ladders have been the standard ladder of choice for many fire apparatus manufacturers for decades. Manufactured to exact standards to ensure proper integration with all kinds of equipment. We will be happy to produce custom ladders to your specifications or have our engineers design one for you. Either way, you will be assured of getting ALCO-LITE quality that's delivered on time.

- Booms up to 5 sections, 100'
- Fixed or fold down handrails
- Field repairable with factory parts



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## FRL Series

### FIBERGLASS ROOF LADDER

Model	Length	Width	Banking		Weight
			Thickness	Weight	
FRL-08	8' 7"	19-1/8"	3-13/16"	24 lbs	
FRL-10	10' 11"	19-1/8"	3-13/16"	30 lbs	
FRL-12	12' 2"	19-1/8"	3-13/16"	36 lbs	
FRL-14	14' 5"	19-1/8"	3-13/16"	42 lbs	
FRL-16	16' 9"	19-1/8"	3-13/16"	46 lbs	
FRL-18	19'	19-1/8"	3-13/16"	50 lbs	
FRL-20	20' 2"	19-1/8"	3-13/16"	55 lbs	

Nests in base section of FEL or FEL3

High strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability

Fiberglass type single wall ladder (FWL series), similar to roof ladder, is available upon request

## FEL Series

### FIBERGLASS TWO-SECTION LADDER

Model	Extended Length	Closed Length	Width	Banking		Weight
				Thickness	Weight	
FEL-12	12'	8' 6"	22-5/16"	6-9/16"	63 lbs	
FEL-14	14'	9' 8"	22-5/16"	6-9/16"	69 lbs	
FEL-16	16'	10' 10"	22-5/16"	6-9/16"	77 lbs	
FEL-20	20'	12' 1"	22-5/16"	6-9/16"	84 lbs	
FEL-24	24'	14' 4"	22-5/16"	6-9/16"	99 lbs	
FEL-28	28'	16' 8"	22-5/16"	6-9/16"	118 lbs	
FEL-30	30'	17' 10"	22-5/16"	6-9/16"	130 lbs	
FEL-35	35'	20' 2"	22-5/16"	6-9/16"	139 lbs	
FEL-40	40'	22' 6"	22-5/16"	6-9/16"	150 lbs	

Oversized 2-1/4" pulley for easy operation

Companion to FRL fiberglass roof ladder

## FEL3 Series

### FIBERGLASS THREE-SECTION LADDER

Model	Extended Length	Closed Length	Width	Banking		Weight
				Thickness	Weight	
FEL3-24	24'	12' 3"	25-1/2"	9-1/4"	133 lbs	
FEL3-28	28'	13' 5"	25-1/2"	9-1/4"	145 lbs	
FEL3-30	30'	14' 7"	25-1/2"	9-1/4"	155 lbs	
FEL3-35	35'	15' 9"	25-1/2"	9-1/4"	170 lbs	
FEL3-40	40'	16' 11"	25-1/2"	9-1/4"	181 lbs	

Oversized 2-1/4" pulley for easy operation

Nests with FRL roof ladder

FEL3-fly section activated by cable and operates automatically with center section

## description

ALCO-LITE fiberglass fire ladders are designed to meet fire fighters' most demanding requirements. Non-conductive fiberglass side rail construction offers an added measure of safety when used near charged electrical circuits.

- Non-conductive fiberglass side rails for improved safety
- Solid I-beam construction for greater strength and rigidity



Double rung plates to rail connection adds strength and rigidity

- All FEL and FEL3 extension ladders are equipped with 1/2" diameter halyards
- Double rung plates increase strength and durability
- Aluminum rungs add strength and durability while reducing weight
- Rungs are easily replaced if damaged
- Designed for general fire fighting
- Meets/exceeds N.F.P.A. 1931 standards



Roof ladders have high strength steel, 3/4" rotating roof hooks with reinforcing brace for longer service and durability



High strength steel butt spurs protect rail ends and help secure base



#### NOTE


Clean, dry fiberglass ladders are non-conductive and offer the best protection from electrocution of any ladder material. The amount of protection provided depends upon the environment in which the ladder is used. Wet fiberglass can and does conduct electricity. The best policy is to avoid all contact with charged electrical circuits.



# Pike Poles

## OVAL & I-BEAM PIPE POLES

### GRIPPER




Model	Length	Weight	Model	Length	Weight
PP-3	3'	4-1/2 lbs	PP-9	9'	9 lbs
PP-4	4'	5 lbs	PP-10	10'	9-1/2 lbs
PP-6	6'	7-1/2 lbs	PP-12	12'	10-1/2 lbs
PP-8	8'	8-1/2 lbs			

### DOUBLE GRIPPER




Model	Length	Weight	Model	Length	Weight
DG-10	10'	10 lbs	DG-12	12'	11 lbs

### I-BEAM




Model	Length	Weight	Model	Length	Weight
IB-3	3'	5 lbs	IB-9	9'	9 lbs
IB-4	4'	5-1/2 lbs	IB-10	10'	9-1/2 lbs
IB-6	6'	7 lbs	IB-12	12'	11 lbs
IB-8	8'	8 lbs	IB-14	14'	12 lbs

### ULTRA-LITE



Model	Length	Weight	Model	Length	Weight
UL-3	3'	3 lbs	UL-10	10'	4-1/2 lbs
UL-4	4'	3 lbs	UL-12	12'	5 lbs
UL-6	6'	3-1/2 lbs	UL-14	14'	5-1/2 lbs
UL-8	8'	4 lbs	UL-DG-10	10'	7-1/2 lbs
UL-9	9'	4-1/2 lbs	UL-DG-12	12'	8 lbs

### ROUND WOOD



Model	Length	Weight	Model	Length	Weight
WR-3	3'	3-1/2 lbs	WR-9	9'	6 lbs
WR-4	4'	3-1/2 lbs	WR-10	10'	6-1/2 lbs
WR-6	6'	4-1/2 lbs	WR-12	12'	7 lbs
WR-8	8'	5-1/2 lbs			

## Pole Accessories



UL-USA  
HOOK STANDARD



UL-DWH  
DRY WALL HOOK



UL-RH  
RUBBISH HOOK



UL-DH  
D-RING HANDLE

## Brackets



PPBK-LG



PPBK

# Commonly Asked Questions

Ladders are tools and must be maintained to ensure safe operation. For complete ladder testing information, please refer to N.F.P.A. 1932 which includes a chapter entitled "Service Testing Ground Ladders". Here are some commonly asked questions concerning fire department ground ladder testing procedures.

- Q How often must I test my ladders? We are a small department.**
- A** All fire department ground ladders must be service tested at least annually, in accordance with N.F.P.A. 1932. Departments that run frequently may need to test more often based upon their inspection, usage, and any suspect damage or unusual conditions of use.
- Q What tests are required?**
- A** Refer to N.F.P.A. 1932 -- the three basic tests required involve a center load test for ladder strength, a hardware test to verify hardware functionality and strength, and a roof hook test applicable only to roof ladders. These tests are all defined in the N.F.P.A. 1932 standard.
- Q Who can perform my test?**
- A** There are numerous testing companies capable of performing fire department ground ladder in-service tests at your facility. However, the tests are designed to make it relatively easy and affordable for a department or group of departments to perform their own tests.
- Q If I test my ladders, do I weaken them?**
- A** Required periodic testing does not adversely affect a good ladder. We at ALCO-LITE have tested the same ladder through over 10,000 test load cycles, and the ladder still continued to meet the N.F.P.A. standards.
- Q Should we use our ALCO-LITE ladder "fly in" or "fly out"?**
- A** ALCO-LITE ladders are normally designed for "fly out" application. Ladders constructed to be used "fly out" should not be used "fly in" as the hardware can project through and be a tripping hazard. ALCO-LITE ladders are available with modified hardware for the "fly in" configuration. Please check with the factory.
- Q What is the weight difference between aluminum and fiberglass ladders?**
- A** There is not a lot of weight difference between the two and will vary model to model. Please check catalog dimensional tables which show weight for comparison between the models you are considering.
- Q What is the load capacity of your ladders?**
- A** The load capacity of fire department ground ladders is spelled out in N.F.P.A. 1932. It is generally 750 pounds on any ladder except folding ladders and pompier ladders. This is based ONLY upon the fact that the ladder is set at the proper angle of one-fourth the distance to support point out from the base AND is tied off at the top and bottom to prevent slippage AND has been tested for N.F.P.A. 1932 testing requirements to ensure continued structural reliability. At other angles, or if the ladder has not been tested recently (within the last year), the ladder loads should be reduced significantly, and the ladder really should be taken out of service and tested prior to further use.
- Q Are ladders field repairable?**
- A** All ALCO-LITE ladder parts are available for field installation. These require a minimum number of readily available tools to accomplish the repairs. Many times, it is not cost effective to repair a ladder and may be more cost effective to replace a section or even to replace the entire ladder.
- Q Are your ladders N.F.P.A. compliant?**
- A** All ALCO-LITE fire department ground ladders meet and/or exceed the requirements of N.F.P.A. 1931.
- Q Are your ladders equipped with three-quarter inch diameter roof hooks?**
- A** Yes.
- Q Why do we have to change the roof hooks?**
- A** Older hooks, which were five-eighths diameter, will not pass the current N.F.P.A. 1932 strength test.
- Q What are your lead times on delivery?**
- A** Generally, most of our products are available from stock pending prior sale. We strive to maintain a large service inventory in order to fill your immediate needs.

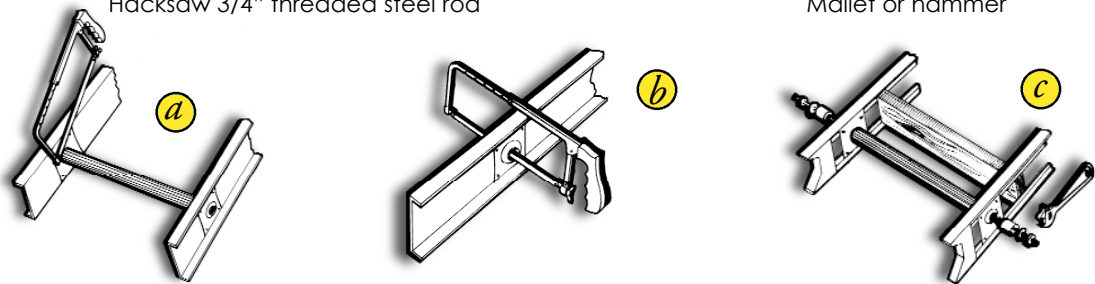


# Rung Replacement

## REQUIRED MATERIALS

2x4 board cut to fit snugly inside width of the ladder  
Replacement rung section and bushings  
Hacksaw 3/4" threaded steel rod

Three nuts to fit steel rod  
Two washers, 1-1/2" O.D. or larger  
Lubrication oil  
Mallet or hammer



## CAUTION!

Do not replace rung if side rail has been damaged. Contact ALCO-LITE for repair options.

- a** 1. Cut out portion of damaged rung between ladder side rails.
2. Insert hacksaw blade through rung section that is still attached to each ladder plate.
- b** 3. Carefully saw through inner bushing until the rung becomes loose and can be removed. In this manner, the rung can be removed without the hacksaw touching the side plates. A tap with a hammer or mallet will assist in removing the rung section.
- c** 4. Place the 2x4 in opening to maintain width.
5. Put new rung in place through plate on both sides of ladder.
6. Lubricate bushings.
7. Push bushing into place by means of steel rod, two large washers (O.D. 1-1/2" or larger) and three nuts to fit rod. The rod should be 6" longer than the rung threaded.
8. The bushings are forced into place by gradually tightening the nuts on each side. Threaded rod is available at most hardware stores. Ensure rod is centered to facilitate bushing installation.

If there are any questions about the integrity of your ladder or the repair process, contact your ALCO-LITE customer service representative immediately at:

1-800-752-2526

# Heat Sensor Warning Labels



## WARNING!

1. If dot on heat sensor label turns black, remove ladder from service and test to N.F.P.A. 1932 standard.
2. Check expiration date on all heat sensors and replace as required.

**DO NOT APPLY HEAT SENSOR DOTS OR LABELS TO ANY LADDER THAT HAS NOT PASSED THE IN-SERVICE TESTING OF THE N.F.P.A. 1932 EDITION STANDARDS**

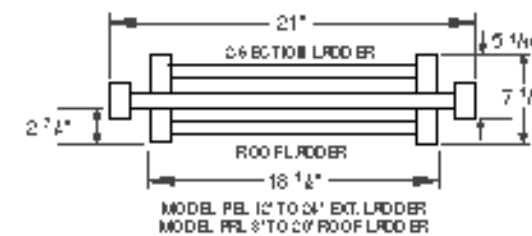
Replacement heat sensor labels are available. Contact ALCO-LITE customer service for details.

# Nesting Arrangements

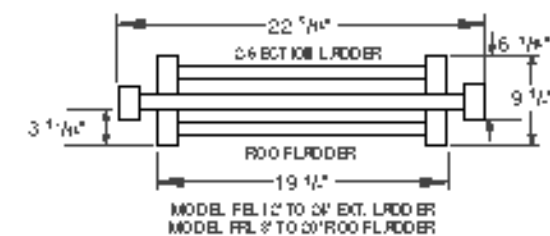
There are many different nesting arrangements possible for your fire ground ladders. We have shown just a few examples here. For specific information on the best arrangement for your department, contact Aluminum Ladder Company at **1-800-752-2526**.

A complete set of engineering nesting drawings is available upon request.

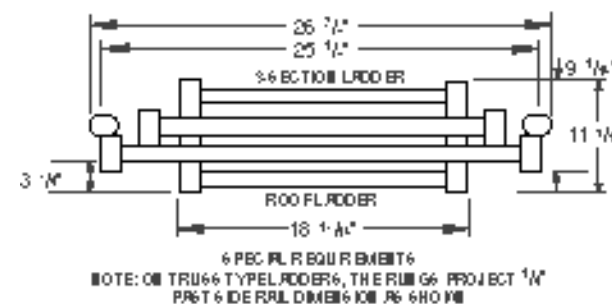
## PUMPER LADDERS



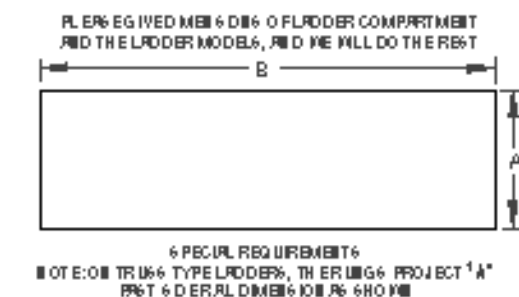
## FIBERGLASS LADDERS



## TRUSS LADDERS



## LADDER COMPARTMENT



# ALCO-LITE In-service Commitment

*Service Does Make A Difference*

The best fire ladder is not any good unless it is on your truck, ready to be used. To maintain your fire ground ladders in the best condition, Aluminum Ladder Company will provide, upon request, detailed parts lists. This allows you to order the correct replacement parts and perform on-site repair and maintenance.

We have an extensive inventory of pumper ladders ready for immediate shipment, and our materials warehouse is well stocked, so your truss order can be filled rapidly. Replacement ALCO-LITE ladders are available to fit a ladder into a compartment in an older apparatus. Please contact our Customer Service Department, and we will be happy to assist you in working out your nesting arrangements.

Our staff is ready to service your fire ladder requirements. We'll work with you to develop a ladder plan to meet the needs of your fire department. When you need a fire ground ladder, call Aluminum Ladder Company, toll-free, and get the best equipment for your fire service needs.

1-800-752-2526



## SAFETY NOTE

Most ladder accidents happen during training exercises. This occurs for several reasons:

1. Many departments use older equipment in their training exercises. Remember, even older equipment must pass the current N.F.P.A. 1932 test loads in order to remain in service. Failure to test your ground ladders can result in ladder failure and fire fighter injury.
2. Many departments do not take all appropriate safety precautions in performing ladder drills; i.e., tying the ladder off at the top, tying the halyard to the base section of the ladder, bracing the foot of the ladder to prevent movement, or overloading the ladder. These items all cause unnecessary risk and injury potential for the fire fighters involved.
3. Never use a damaged ladder. Take it out of service until repaired and tested in accordance with N.F.P.A. 1932.

To find out about the current N.F.P.A. and IFSTA standards, call or write:

**NATIONAL FIRE PROTECTION  
ASSOCIATION (N.F.P.A.)**  
11 Tracy Drive  
Avon, MA 02322  
Phone: 1-800-344-3555  
Fax: 1-800-593-6372

**INTERNATIONAL FIRE SERVICE  
TRAINING ASSOCIATION (IFSTA)**  
930 North Willis  
Stillwater, OK 74078  
Phone: 1-800-654-4055  
Fax: 405-744-8204

## Inspection, Maintenance, & Testing

Fire ladders are part of your total apparatus inventory. Just as your engines, pumps and other equipment require inspection, maintenance, and testing, so do your ladders. Begin by establishing a logbook for each ladder with its model number and serial number. Now you can record each inspection, maintenance performed, and annual test results.

Inspect and test ladders prior to placing in service. Always visually inspect a ladder before and after each use. Items of special concern are indications of structural strain or damage on the side rails and/or rungs, loose rungs, worn or frayed halyards and cables, damaged pawls/locks, and heat sensor dots indicating high temperature exposure. Other areas needing attention include ease of extension with two and three-piece ladders, loose fasteners (nuts, rivets, etc.), damaged or missing end caps, foot spikes, and safety shoes (if equipped).

**You must maintain, inspect and test your ladders in accordance with N.F.P.A. 1932 standards.**

Ladder maintenance can be separated into two procedures. The first, Repair Maintenance, should be performed any time the Visual Inspection discloses any defect. The Repair Maintenance procedure must be performed prior to using the ladder. Secondly, the preventive maintenance procedure reduces the likelihood of ladder damage and injuries. All ladders, regardless of the manufacturer or material of construction, require both procedures to ensure a safe ladder.

Repair Maintenance must be performed at any time the Visual Inspection discovers any problems as noted in the above section on visual inspection. Remove the ladder from service until such repairs can be completed! The manufacturer can supply you with the necessary parts. Should you have any questions concerning the condition of a ladder, please contact the manufacturer immediately for guidance.

General maintenance should begin by cleaning the ladder with soap and water, taking care to flush the inside of the rungs to remove debris, road salt, etc. (Aluminum ladders can be cleaned with a fine steel wool pad; fiberglass and wood ladders can be cleaned with a rag or sponge.) Use caution near the labels so as not to remove the outer label coating. Once the ladder is clean, perform a visual inspection to log any possible defects. After the defects are repaired, you can protect the ladder by applying a mild liquid car wax to the side rails. On extension ladders, apply paraffin wax or candle wax to the friction (slide) areas to lubricate the contact areas. Additionally, apply the wax to accessible lock parts. Under normal conditions, the inspection, washing, and waxing should be done twice a year. In a hostile environment, complete these steps more frequently as required.

Testing is the word that everyone loves to hate. You have a plan in force to test your personal protection gear and test your unit's brakes. Your life depends upon these items working properly when the need is greatest. Are ladders any different? **No, ladders are not different!** That's why the **National Fire Protection Association (N.F.P.A.) requires that ground ladders be tested annually.** They (N.F.P.A.) also require that you test ladders any time the ladders are damaged or exposed to high temperatures.

Again, at the time of this printing, the N.F.P.A. requires, as a minimum, that a ladder be tested annually. Become familiar with the current testing requirements and complete the tests. Give in; periodic testing of your ladders may save a life (perhaps your own)!

## ALCO-LITE® Fire Ladder Features

- Designed and constructed exclusively for fire department use.
- Meets or exceeds all applicable N.F.P.A. standards.
- Fast delivery. Most of our models are available from stock (many are guaranteed 2 day shipment).
- All ALCO-LITE fire ladders are 100% inspected, and extensions are operated at the factory prior to shipment to assure proper ease of operation.
- Each ladder has a unique serial number for easy identification should you need repair parts or replacement ladders.
- All ALCO-LITE fire ladders can be repaired in the field with factory parts.
- All ALCO-LITE fire ladders carry safety labels for assistance in training and include heat sensors for increased safety.
- Ladder size is clearly marked on ladder for easy reference and operation.
- Most importantly, all ALCO-LITE fire ladders are backed with our extraordinary ALCO-LITE SERVICE. Call us - toll free - for assistance at **1-800-752-ALCO (2526)**

## EXCLUSIVE LIFETIME LIMITED WARRANTY

Aluminum Ladder Company's products are to be free from defect in materials and workmanship, exclusive of corrosion, for the life of the product. The manufacturer's liability under this warranty shall be limited to the repair or replacement of any defective work or material FOB Aluminum Ladder Company's shop, and Aluminum Ladder Company shall be liable for no other damage or loss. The buyer's sole and exclusive remedy against Aluminum Ladder Company for any warranty claim concerning material or workmanship shall be for the repair or replacement of the parts or products. No other remedy (including, but not limited to, incidental or consequential damages for loss of profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available to the buyer. After written approval by Aluminum Ladder Company, the part or product must be returned prepaid to Aluminum Ladder Company, Florence, SC. The provisions of this warranty shall not apply to any Aluminum Ladder product which has been subject to misuse, negligence, alteration, accident, or which has been repaired by someone other than the manufacturer.

**There are no warranties or remedies for the breach thereof which extend beyond the description on the face hereof.**



ALCO-LITE'S Quick Ship Guarantee is designed to keep our fire department customers up and running and offer our distributors an opportunity to reduce inventory levels. We guarantee that we will ship our Quick Ship models and/or repair parts by the end of the second business day after receipt of order, or we will reduce the sale price by 50% (subject to conditions below).

## CONDITIONS OF QUICK SHIP SALE

- Orders are limited to a maximum of twelve ladders per QUICK SHIP model.
- Orders for repair parts on any ALCO-LITE ladder are limited to twelve each of the same part.
- Orders that contain non QUICK SHIP models must specify if they wish the order to be split shipped. If split shipment is required, ALCO-LITE will reimburse freight charges on one shipment as long as the combined order meets normal freight allowed requirements. The second shipment or balance of freight is the responsibility of the purchaser. Purchaser may select which shipment is to be reimbursed by ALCO-LITE as long as the requests for split shipment and freight reimbursement are requested at time of order.
- ALCO-LITE reserves the right to select freight carrier.
- Multiple same day orders are subject to acceptance by ALCO-LITE.
- Pick up orders for QUICK SHIP models will be made available for pick up before the end of the second business day.
- All orders are subject to credit approval. ALCO-LITE reserves the right to suspend availability of the QUICK SHIP GUARANTEE to customers whose account is not in good standing.
- ALCO-LITE will not be responsible for conditions outside our control that would prohibit us from complying with the QUICK SHIP GUARANTEE including, but not limited to, fire, inclement weather, or trucking strike.
- The QUICK SHIP GUARANTEE is subject to change or cancel without notice.



QUALITY CRAFTSMANSHIP

ON TIME DELIVERY

FRIENDLIEST SERVICE

FOUR GENERATIONS OF FIRE LADDER MANUFACTURING.  
WE'LL BE THERE WHEN YOU NEED US!

## Aluminum Ladder Company



1430 West Darlington Street  
PO Box 5329 • Florence, SC 29502

**1-800-752-2526**

Phone: (843) 662-2595 • Fax: (843) 661-0972

Web-site address: [www.fireladder.com](http://www.fireladder.com)

