

Ground Ladders

Ground Ladders Carried by WWFD

- Step Ladders
- 10' Folding / Scuttle Ladder
- 14' Roof Ladder
- 16' Roof Ladder
- 24' Extension Ladder
- 35' Extension Ladder

Reach of Ladders

<u>Area of Reach</u>	<u>Length Range</u>	<u>Ladder Needed</u>
1 st Story Roof	16' to 20'	16' or 24' extension
2 nd Story Window	20' to 28'	24' extension
2 nd Story Roof or 3 rd Story Window	28' to 35'	35' extension

- Residential building average 9' between stories (floor to floor)
- Commercial buildings average 12' between stories (floor to floor)
- Window sills average 3' off floor

Transporting

- Carry ladders butt end first
- Butt person spots position and gives commands to raise
- When manpower is limited, drag ladder on butt spurs

Raising

- Beam raise
- Flat raise
- *** Always look for overhead hazards and obstructions

Positioning

- Place tip under window sill for entry, rapid exit, and rescue
- Placed tip 3-5 rungs above roofline when accessing roof

Footing

- Position yourself In Front Of ladder for better line of sight and to assist climber

Moving

- When moving from window to window “roll” ladder while extended

Climbing with tools

- Use under side of beams to slide hand up while grasping tools
- Preposition tool on rungs and then climb

Carries

- A *minimum* of three firefighters are required to carry and raise a 35' extension ladder
- Two firefighters are required to carry and raise a 24' extension ladder
- Two firefighters are required to use a 14' roof ladder (on the roof)
- Only one firefighter is needed to carry and raise a 14' or 16' straight ladder (two are preferred)

Safety

- Stay *at least* 10' away from all power lines
- Person on the butt end gives the commands
- Tie Halyard off to rungs as a safety, once raised and in place
- Set Ladders at proper angle to work off of ($70^{\circ} - 75^{\circ}$)
- Only have one firefighter per section of extension ladder when working or climbing
- Have 3-5 Rungs extend over roofline for visibility and safety accessing the roof
- Have the *Fly Out* on metal extension ladders
- Use the right ladder for the job, do not over extend your reach

Ground Ladder Evolutions

Carrying and raising 35' extension ladder

- Three man carry. One at tip one at butt, one in middle
- Three man raise. One at butt, two at tip extending
- Man at butt gives commands (carrying and raising)
- Raise 3-5 rungs above roofline
- Place tip just under window sill for rescue

Raising 24' extension and using 14' roof ladder

- Two man carry
- Two man raise
- Extend roof hooks away from climber on the ground prior to climbing

Search off of extension ladders (VES)

- V.E.S. Vent, Enter, Search
- Used to ***rapidly*** access areas where high probability of life hazard (bedrooms)
- Use size up and/or bystanders to determine where occupants are trapped
- Use porch roof to access several windows at a time (great work platform)
- Have ***All PPE On*** and ready to go prior to climbing ladder
- An option to vent is to use tip of ground ladder to “crash” window
- Climb ladder and sweep directly under window ***first***
- Sound floor with tool prior to entering
- Enter room and start a rapid search.
- Locate and close hallway door when reached (quick sweep of hall)
- Climb down and “roll” ladder to next window and repeat