



OPERATIONAL SAFETY INSTRUCTIONS

READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT. KEEP THIS MANUAL HANDY FOR FUTURE REFERENCE.



WARNING: DO NOT OPERATE ON A ROOF WITHOUT A PERIMETER WARNING SYSTEM OR BARRIER. THIS EQUIPMENT IS NOT TO BE USED ON WORK SITES THAT ARE NOT IN COMPLIANCE WITH OSHA STANDARDS WITH SPECIAL EMPHASIS PLACED ON, BUT NOT LIMITED TO: Part 1926, Subpart M, Paragraphs 1926.502 (f)(1), 1926.502 (f)(4), 1926.502 (h)(2), 1926.502 (i), 1926.502 (j)(4), 1926.502

(j)(6)(i), 1926.502 (j)(7) regarding:

- GUARDING ROOF EDGES WITH WARNING LINE SYSTEMS
- PROPERLY STORING EQUIPMENT ON ROOFS
- EQUIPMENT USE/STORAGE WHERE SAFETY MONITORING SYSTEMS ARE BEING USED
- GUARDING HOLES AND OPENINGS IN ROOFS
- STORING EQUIPMENT TO PREVENT FALLING OBJECTS
- STORING EQUIPMENT AWAY FROM WORKING EDGE

Excerpt from: Federal Register, Part No. 1926, Safety and Health Regulations for Construction: 44 FR 8577, Feb. 9, 1979; 44 FR 20940, Apr. 6, 1979, as amended at 45 FR 75626, Nov. 14, 1980; 55 FR 47687, Nov. 14, 1990; 59 FR 40733, Aug. 9, 1994; 60 FR 5131, Jan. 26, 1995

1926.502(a)
"General."

1926.502(a)(1)
Fall protection systems required by this part shall comply with the applicable provisions of this section.

1926.502(a)(2)
Employers shall provide and install all fall protection systems required by this subpart for an employee, and shall comply with all other pertinent requirements of this subpart before that employee begins the work that necessitates the fall protection.

...

1926.502(f)
"Warning line systems." Warning line systems [See 1926.501(b)(10)] and their use shall comply with the following provisions:

1926.502(f)(1)
The warning line shall be erected around all sides of the roof work area.

1926.502(f)(1)(i)
When mechanical equipment is not being used, the warning line shall be erected not less than 6 feet (1.8 m) from the roof edge.

1926.502(f)(1)(ii)
When mechanical equipment is being used, the warning line shall be erected not less than 6 feet (1.8 m) from the roof edge which is parallel to the direction of mechanical equipment operation, and not less than 10 feet (3.1 m) from the roof edge which is perpendicular to the direction of mechanical equipment operation.

1926.502(f)(1)(iii)

Points of access, materials handling areas, storage areas, and hoisting areas shall be connected to the work area by an access path formed by two warning lines.

1926.502(f)(1)(iv)

When the path to a point of access is not in use, a rope, wire, chain, or other barricade, equivalent in strength and height to the warning line, shall be placed across the path at the point where the path intersects the warning line erected around the work area, or the path shall be offset such that a person cannot walk directly into the work area.

...

1926.502(f)(3)

No employee shall be allowed in the area between a roof edge and a warning line unless the employee is performing roofing work in that area.

1926.502(f)(4)

Mechanical equipment on roofs shall be used or stored only in areas where employees are protected by a warning line system, guardrail system, or personal fall arrest system.

...

1926.502(h)(2)

Mechanical equipment shall not be used or stored in areas where safety monitoring systems are being used to monitor employees engaged in roofing operations on low-slope roofs.

1926.502(h)(3)

No employee, other than an employee engaged in roofing work [on low-sloped roofs] or an employee covered by a fall protection plan, shall be allowed in an area where an employee is being protected by a safety monitoring system.

1926.502(h)(4)

Each employee working in a controlled access zone shall be directed to comply promptly with fall hazard warnings from safety monitors.

1926.502(i)

"Covers." Covers for holes in floors, roofs, and other walking/working surfaces shall meet the following requirements:

1926.502(i)(1)

Covers located in roadways and vehicular aisles shall be capable of supporting, without failure, at least twice the maximum axle load of the largest vehicle expected to cross over the cover.

1926.502(i)(2)

All other covers shall be capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time.

1926.502(i)(3)

All covers shall be secured when installed so as to prevent accidental displacement by the wind, equipment, or employees.

1926.502(i)(4)

All covers shall be color coded or they shall be marked with the word "HOLE" or "COVER" to provide warning of the hazard.

Note: This provision does not apply to cast iron manhole covers or steel grates used on streets or roadways.

1926.502(j)

"Protection from falling objects." Falling object protection shall comply with the following provisions:

1926.502(j)(1)

Toeboards, when used as falling object protection, shall be erected along the edge of the overhead walking/working surface for a distance sufficient to protect employees below.

1926.502(j)(2)

Toeboards shall be capable of withstanding, without failure, a force of at least 50 pounds (222 N) applied in any downward or outward direction at any point along the toeboard.

1926.502(j)(3)

Toeboards shall be a minimum of 3 1/2 inches (9 cm) in vertical height from their top edge to the level of the walking/working surface. They shall have not more than 1/4 inch (0.6 cm) clearance above the walking/working surface. They shall be solid or have openings not over 1 inch (2.5 cm) in greatest dimension.

1926.502(j)(4)

Where tools, equipment, or materials are piled higher than the top edge of a toeboard, paneling or screening shall be erected from the walking/working surface or toeboard to the top of a guardrail system's top rail or midrail, for a distance sufficient to protect employees below.

1926.502(j)(5)

Guardrail systems, when used as falling object protection, shall have all openings small enough to prevent passage of potential falling objects.

1926.502(j)(6)

During the performance of overhand bricklaying and related work:

1926.502(j)(6)(i)

No materials or equipment except masonry and mortar shall be stored within 4 feet (1.2 m) of the working edge.

1926.502(j)(6)(ii)

Excess mortar, broken or scattered masonry units, and all other materials and debris shall be kept clear from the work area by removal at regular intervals.

1926.502(j)(7)

During the performance of roofing work:

1926.502(j)(7)(i)

Materials and equipment shall not be stored within 6 feet (1.8 m) of a roof edge unless guardrails are erected at the edge.

1926.502(j)(7)(ii)

Materials which are piled, grouped, or stacked near a roof edge shall be stable and self-supporting.

1926.502(j)(8)

Canopies, when used as falling object protection, shall be strong enough to prevent collapse and to prevent penetration by any objects which may fall onto the canopy.

[44 FR 8577, Feb. 9, 1979; 44 FR 20940, Apr. 6, 1979, as amended at 45 FR 75626, Nov. 14, 1980; 55 FR 47687, Nov. 14, 1990; 59 FR 40733, Aug. 9, 1994; 60 FR 5131, Jan. 26, 1995]