

GrateSafe® Roof Walkway and Guardrail System

OSHA Compliance Statement

Overview

R&S Manufacturing and Sales is committed to workplace safety and compliance with federal and state occupational safety regulations. The GrateSafe® Roof Walkway and Guardrail System is designed, engineered, and fabricated to meet or exceed the safety and performance requirements set forth by the Occupational Safety and Health Administration (OSHA), including relevant standards under 29 CFR 1910 and 1926. This document outlines the specific provisions under which our system complies.

1. Applicable OSHA Standards

The GrateSafe system is manufactured to meet the following OSHA regulations:

- 29 CFR 1910 Subpart D: Walking-Working Surfaces
- 29 CFR 1910.22: General Requirements
- 29 CFR 1910.28: Duty to Have Fall Protection and Falling Object Protection
- 29 CFR 1910.29: Fall Protection Systems and Criteria
- 29 CFR 1926 Subpart M: Fall Protection (Construction Industry)

2. Walking-Working Surface Compliance (29 CFR 1910.22)

- All GrateSafe walkways are designed to provide safe walking-working surfaces that are kept clean, dry, and free from hazards.
- Surfaces are made of slip-resistant open grating with adequate drainage.
- All units are constructed to support the intended load, including personnel and equipment, without failure.

3. Load Capacity

- Walkway panels are engineered to exceed the minimum OSHA requirement for strength, supporting at least five times the intended load per 29 CFR 1910.22(d)(1).
- System anchorage and structural supports are designed to withstand both vertical and lateral forces under anticipated use.

4. Guardrail System (29 CFR 1910.29 & 1926.502)

- The GrateSafe guardrail includes a top rail at 42" ±3" height and a midrail positioned midway between the walking surface and the top rail.
- Rails withstand a minimum 200-pound force applied in any outward or downward direction.
- Midrails withstand a minimum 150-pound force.
- Toeboards (minimum 3.5" height) are included when required to prevent objects from falling.
- All surfaces are smooth and free of sharp edges, in compliance with 1910.29(b)(2).

5. Handrail Compliance (29 CFR 1910.29 and 1926.1052)

- Where stair access is present, GrateSafe includes handrails compliant with OSHA specifications.
- Handrails are mounted between 30 inches and 38 inches above the stair tread nosing, per OSHA

1910.29(f)(1).

- Handrails are capable of withstanding a force of at least 200 pounds applied in any outward or downward direction.
- Handrail surfaces are continuous, smooth, and constructed to prevent injuries or clothing snags.
- Ends of handrails are designed to minimize projection hazards.

6. Fall Protection Criteria (29 CFR 1910.28 & 1926 Subpart M)

- Fall protection is required where elevation exceeds 4 feet (general industry) or 6 feet (construction).
- GrateSafe systems integrate passive fall protection via guardrails.

7. Wind Uplift and Stability

- Although OSHA does not specify wind uplift loads, the GrateSafe system is engineered to resist uplift forces and is tested to project-specific parameters or engineering wind load standards as defined by ASCE 7 and IBC for rooftop mechanical systems.
- Walkways are securely anchored with consideration for high-wind and seismic environments.

8. Inspections and Maintenance

- Systems must be inspected on a routine basis per 1910.22(d)(2) to ensure continued safety.
- GrateSafe components are corrosion-resistant and designed for long-term durability in rooftop environments.

9. Installation and Documentation

- Installation instructions, engineered drawings, and PE-stamped submittals (as required) are available for all GrateSafe systems.
- Field support (telephone or video conference) is available for design assistance and jobsite-specific configuration.

Conclusion

The GrateSafe® Roof Walkway and Guardrail System is a fully OSHA-compliant rooftop safety solution. It is built to rigorous standards to ensure worker safety and system durability across a wide range of rooftop applications.

For more information or to request stamped engineering documentation, please contact R&S Manufacturing and Sales.

Contact Information

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