

# RAIL CONNECTOR

GRXRLS10

## TECHNICAL SPECIFICATION

### GROXX RAIL SUPPORT | GRXRLS10 RIGID RAIL STABILIZATION COMPONENT

The **Groxx GRXRLS10** is a specialized structural component designed to secure rigid rail systems to a variety of substrates. It functions as a critical stabilization point that controls the span, stiffness, and allowable deflection of the rail, ensuring the system operates within its engineered safety parameters.

#### CORE PERFORMANCE FEATURES

- Structural Guidance:** Engineered to maintain the alignment of the rigid rail, providing consistent guidance for the traveler shuttle during horizontal or vertical movement.
- System Stiffness Control:** By managing the spacing between supports, the GRXRLS10 controls the overall stiffness of the rail system, which is essential for minimizing dynamic oscillations during a fall event.
- Non-Load-Bearing Classification:** This component is classified as a non-load-bearing anchor, meaning it does not directly withstand primary fall impact forces but provides the necessary structural support for multi-span installations.
- Versatile Design:** The depth of the thread is customizable based on the final installation object, allowing for precise integration with different building structures.



#### TECHNICAL SPECIFICATIONS

| FEATURE            | SPECIFICATION                                       |
|--------------------|-----------------------------------------------------|
| Model Number       | GRXRLS10                                            |
| Material Options   | AISI 304 Stainless Steel / High-Grade Aluminum (AL) |
| Safe Load Capacity | 12 kN                                               |
| Safety Factor      | 1.5                                                 |
| Unit Weight        | 248 g                                               |
| Width (B)          | 70 mm                                               |
| Height (H)         | 21 mm                                               |
| Length (L)         | 100 mm                                              |

#### INSTALLATION DYNAMICS

- Multi-Span Support:** Designed to facilitate the installation of long-distance rigid rail systems by providing intermediate stabilization points.
- Support Spacing:** Proper installation requires that support spacing be determined based on specific system design parameters, including the total span, the number of simultaneous users, and the allowable deflection limits.
- Concrete Interface:** For mounting to concrete slabs, this component can be used in conjunction with the **GRX851 Chemical Anchor** system to ensure a high-strength, permanent bond.

#### COMPLIANCE & STANDARDS

The **GRXRLS10** meets the fixing and stabilization requirements of international rigid rail safety standards:

- EN 795:2012 Type D:** Certified for use within rigid rail anchor systems (Rated for 1 user).
- CEN/TS 16415:2013:** Tested and compliant for multi-user applications (up to 3 users) when incorporated into a complete certified system.
- Validity Period:** Offered with a 10-year validity period for both 304 Stainless Steel and Aluminum variants, supported by mandatory annual inspections.

#### THE GROXX ADVANTAGE

The **GRXRLS10** provides the essential structural backbone for any rigid rail installation. Its low-profile design and dual-material construction allow it to blend seamlessly into industrial or architectural environments while maintaining the strict stiffness requirements necessary for high-performance fall protection.