GGIMEA052

INTEGRATED MECHANICAL ENERGY ABSORBER



OVERVIEW

The Groxx Trapezoidal Roof Anchor (GGIMEA052) is a sophisticated, elevated anchorage solution specifically engineered for profiled metal roofing. Designed to function as a critical terminal or intermediate point for horizontal lifelines, this anchor combines advanced load distribution with an internal energy management system.

KEY FEATURES

- **Dynamic Energy Buffering**: The pedestal features an internal spring mechanism that provides elastic support. This system absorbs and dissipates dynamic energy during a fall event, reducing the impact force transmitted to the fragile roof substrate.
- **Progressive Failure Safety**: Engineered for safety through intelligence, the anchor is designed to exhibit visible deformation under excessive loads. This "safety warning" alert allows for immediate identification of a compromised system before a catastrophic failure occurs.
- **Superior Waterproofing Integrity**: To eliminate the risk of leaks, the system utilizes integrated waterproof gaskets between the aluminum alloy housing and the baseplate.
- **Modular Maintenance**: The aluminum alloy housing is independent of the internal energy-absorbing spring. This modularity allows for individual disassembly, inspection, and maintenance without necessarily decommissioning the entire base assembly.

TECHNICAL SNAPSHOT

PARAMETER	GGIMEA052
Product Code	GGIMEA052
Primary Material	AISI 316 Stainless Steel & Aluminum Alloy
EN requirement	Static test 12 kN (18 kN if any load-bearing part is non-metallic), +1 kN per additional user (CEN/TS 16415)
System Weight	6.75 kg
Safe Load Capacity	10 kN (on 0.45mm sheet) / 11 kN (on 0.63mm panel)
Height	254 mm
Baseplate Dimensions	360 mm x 380 mm
User Rating	Up to 4 Users

INSTALLATION & USE

Profiled Metal Substrates: Optimized for single-skin profiled sheets (min. 0.45mm) and top skins of sandwich panels (min. 0.63mm).

Structural Fixing: The system is secured using 16 AL Sealed Blind Rivets (mm) or specialized waterproof self-tapping screws.

Purlin Integration: Suitable for installation over various structural supports, including Z/C-sections, H-beams, and steel trusses.

STANDARDS

EN 795:2012 Type C | CEN/TS 16415

Designed to EN 795:2012 Type C, CEN/TS 16415. Test certificate on request. The GGIMEA052 Pedestal Anchor solves the primary challenge of rooftop safety: protecting the worker without destroying the roof.

FULL DATA SHEET ↗

Product page ↗