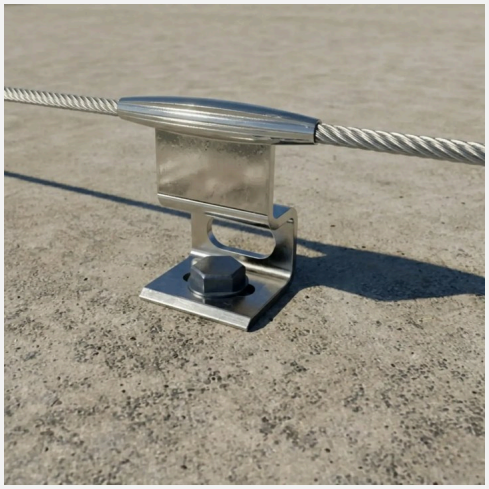
–

HORIZONTAL LIFELINE ON CONCRETE STRUCTURE

Also used in HL



OVERVIEW

The Groxx GRXHLLC horizontal lifeline for concrete is a professional-grade fall arrest system that turns rigid reinforced concrete into a dynamic safety anchorage. Inline energy absorption and cable-span deflection keep the impact spike away from the user and the anchors.

KEY FEATURES

- **Stage 1 · Inline energy absorption**: A high-capacity 316 stainless steel energy absorber is built into the line.
- **Stage 2 · Cable span deflection**: The 8 mm 7×19 wire rope acts as a flexible spring between anchors.

TECHNICAL SNAPSHOT

PARAMETER	–
EN requirement	Static test 12 kN (18 kN if any load-bearing part is non-metallic), +1 kN per additional user (CEN/TS 16415)

Component	Engineering Function	Material Specification
G-Anchor Post	Primary structural termination / Extremity load-bearing	AISI 316 Stainless Steel
GRX851 Adhesive	Load transfer via chemical molecular bonding	Two-Component Modified Epoxy
8mm Wire Rope	Flexible lifeline member (100% bypass compatible)	SS316 7×19 Construction
Inline Absorber	Dynamic force reduction / Energy dissipation	SS316 with Tear-Webbing / Coil
Intermediate Support	Cable management / Multi-span stabilization	SS316 Low-Profile Design

INSTALLATION & USE

Substrate Requirement: Installation is typically performed on reinforced concrete with a minimum compressive strength of 25 MPa (C20/25).

Fixing Mechanism: Utilizing GRX851 Modified Epoxy Resin and GRXNG143 SS316 Threaded Bolts.

The "Bond" Logic: Unlike mechanical expansion anchors that rely on friction and induce internal "bursting" stresses (limiting edge distance), the GRX851 chemical anchor creates a tension-free molecular bond.

STANDARDS

EN 795:2012 Type C | CEN/TS 16415

FULL DATA SHEET ↗

Product page ↗