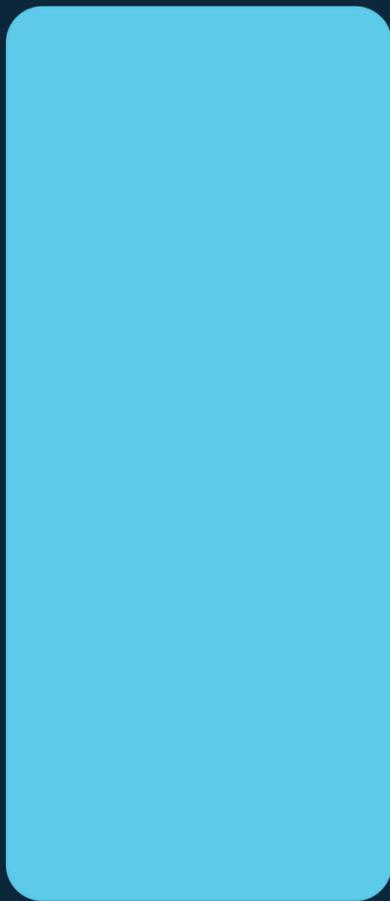


IQ U-Channel Cable Through System



IQ U-Channel Cable Through System

Description and Application

IQ U-Channel is a modular cable through, and cover system manufactured from glass fiber reinforced plastic (GRP), developed as a permanent alternative to traditional concrete solutions.

The system is designed for use in critical infrastructure, including energy, utility, and industrial installations, where long service life, secure cable protection, and stable operation are required.

Design and modularity

The system consists of prefabricated, modular GRP elements that can be assembled into continuous cable routes.

The modular design allows adaptation to project-specific layouts, cable volumes, and installation conditions without compromising the structural performance of the system.

Dimensions and geometry

All stated dimensions refer to the internal bottom width of the cable channel.

The standardized geometry ensures precise alignment, stable assembly, and a secure interface between channel and cover.

Detailed dimensions, tolerances, and interface specifications are provided in the associated technical drawings.

Structural Performance and Load Classes

IQ U-Channel is supplied as a complete cable channel and cover system and supports multiple load classes depending on the selected cover and application:

- **A15** – suitable for pedestrian areas and light service zones
- **B125** – suitable for areas with light traffic
- **D400** – suitable for heavy traffic and industrial areas

The accompanying drawings show IQ U-Channel with A15 covers.

The same channel geometry is used for D400 cover variants.

Areas of application

- Industrial and energy facilities
 - Rail infrastructure
 - Data centers and utility projects
-

Standards and documentation

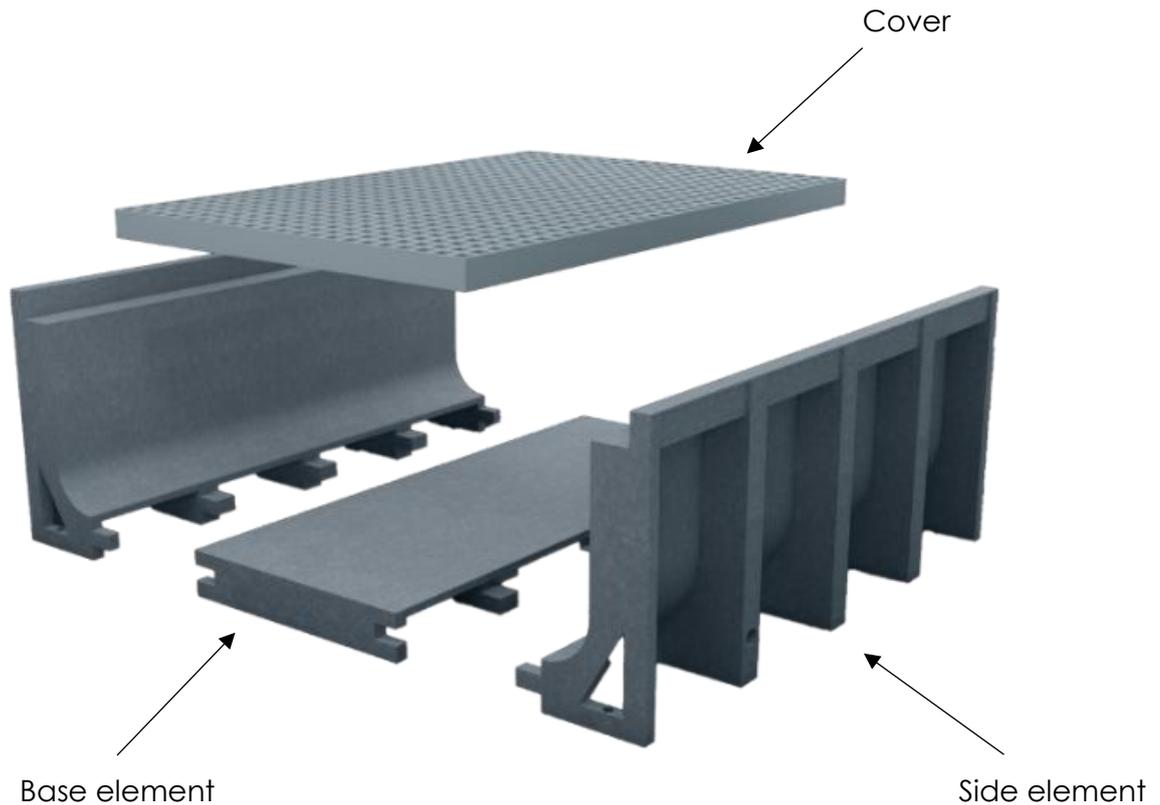
- EN 124 – Load classes
 - EN 1433 – Channels and covers
 - Tested performance: Independently tested to withstand loads up to 400 kN without structural failure of the product.
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Technical Specifications – IQ U-Channel System

Parameter	Specification
Material	Glass fiber reinforced plastic (GRP) – high strength, low weight, corrosion-resistant
Design	Modular U-channel system with flexible and scalable configuration
Channel width	Defined in project-specific drawings. Dimensions refer to internal bottom width
Load classes	A15m B125 and D400 (system load class determined by selected cover, in accordance with EN 124 / EN 1433)
Cover compatibility	A15, B125 and D400 covers – identical channel geometry
Corrosion resistance	High – resistant to moisture, salt, and chemicals
Electrical properties	Non-conductive material
Installation	Manual installation – no requirement for heavy lifting equipment
Maintenance	Minimal – no corrosion or cracking

Size Overview – IQ U-Channel Cable Trough System

Base with (mm)	Internal dimensions (mm)	External dimensions (mm)	Length (mm)	Side element height (mm)	Weight (kg)
600	740	780	1079	600	31
800	940	1000	1079	600	55
1000	1140	1200	1079	600	86



IQ U-Channel – Lightweight GRP alternative to concrete, up to 95% lighter with the same proven strength. **Key advantages vs. concrete:**

Up to 75% less transport

50% lower CO₂ footprint

Long service life with minimal maintenance

Manual installation – No heavy equipment required

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