advanced
INFRASTRUCTURE SYSTEMS LTD

ReForce

Advanced Sidewall Reinforcement System

Pultruded glass reinforced polyester (GRP) beams reinforce selected sidewalls and corners of EasyPIT ULTRA modular polypropylene (PP) access chambers, improving sidewall stiffness and resistance to lateral ground pressure. This targeted reinforcement strengthens the chamber where needed while preserving the lightweight, modular design that enables easy manual handling and straightforward installation.

STRONGER
SIDEWALLS

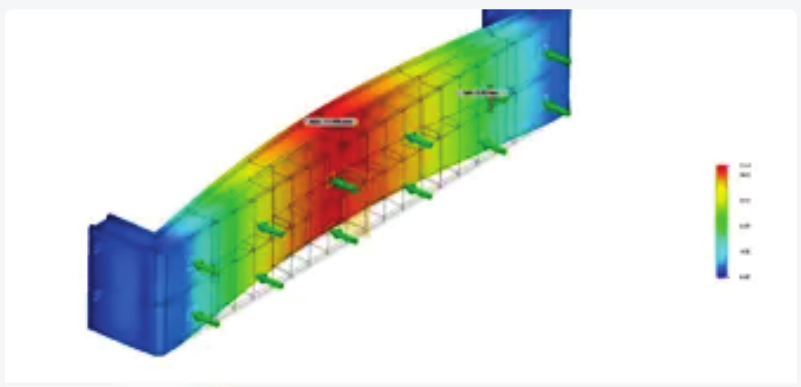
GREATER
LATERAL RESISTANCE

CONFIGURABLE
GRP REINFORCEMENT

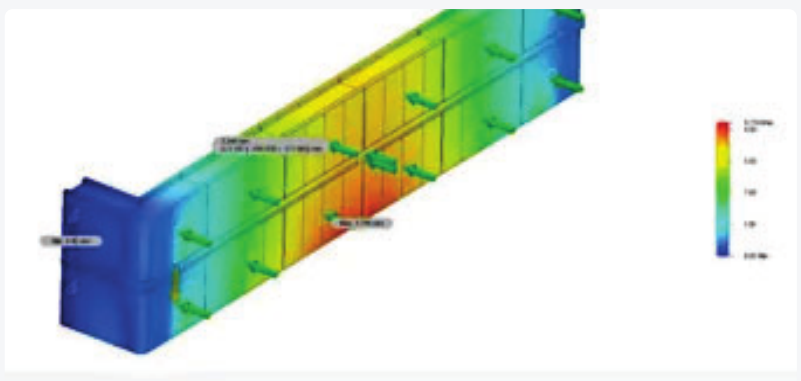
Structural Reinforcement in Action

ILLUSTRATIVE WALL RESPONSE

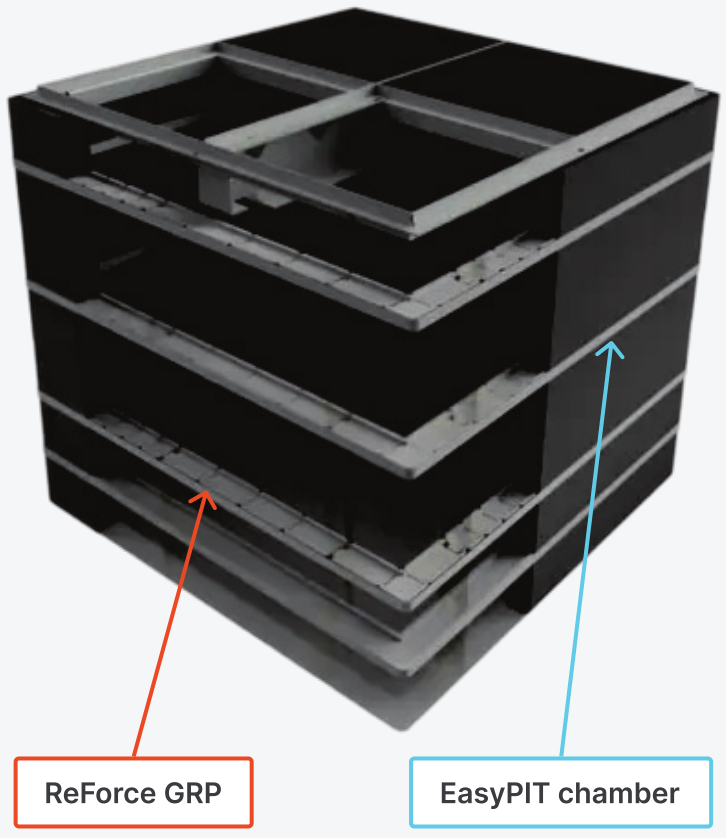
BEFORE



AFTER



EASYPIT ULTRA REFORCE - CHAMBER VIEW



Concept imagery / comparative analysis supplied by Advanced Infrastructure.

ReForce

Advanced Sidewall Reinforcement System

Technical Configuration

Reinforcement	Pultruded GRP beam profiles
Host chamber	EasyPIT ULTRA modular PP system
Beam placement	Selected sidewalls and corners
Vertical intervals	150 mm or 300 mm*
Design parameters	Chamber size, depth, ground loads
Application	Lateral sidewall support in underground installations

Why ReForce?

Sidewall rigidity

Improves resistance to inward deflection and deformation.

Lateral load support

Helps distribute earth-pressure effects across reinforced regions.

Deep-installation support

Adds stiffness where lateral ground pressures can be more demanding.

Composite durability

Corrosion-resistant, high strength-to-weight GRP construction.

Design & Load Classification Note

150 mm / 300 mm beam spacing is an option, not a universal installation prescription; final layout requires project-specific assessment. ReForce provides lateral reinforcement alongside the chamber / cover load-bearing arrangement.

EasyPIT ULTRA has been independently tested free-standing in accordance with BS EN 124 D400 loadings.

Technical marketing overview • Application-specific engineering required