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Resilient Access Solutions
for Mission Critical Networks



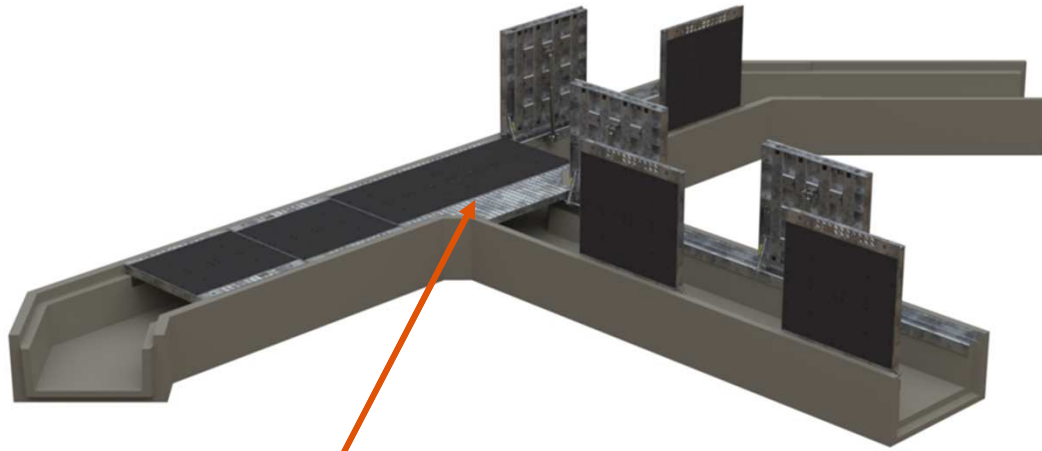
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What we can offer you

Innovative solutions for Telecoms Infrastructure



Cable Trench cover with Lift Assistance

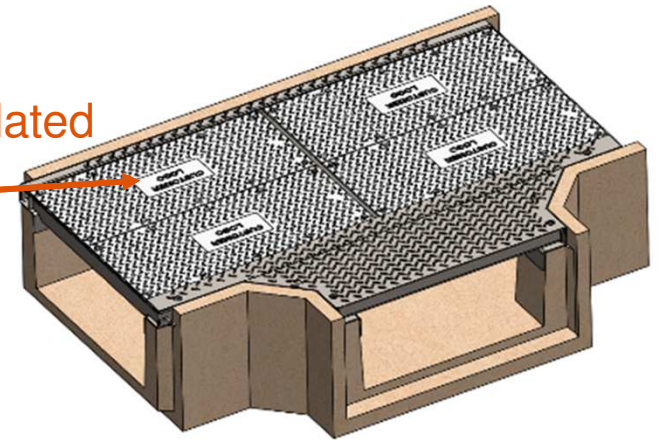


- Ideal for long trench/duct runs – with mechanical strut and torsion springs
- Single user lifting
- Lockable with security bolts
- Cost effective -turnkey solution

T section – extending cover – no beam

Precise angles and corner section design can be accommodated

Customisation – logo or text



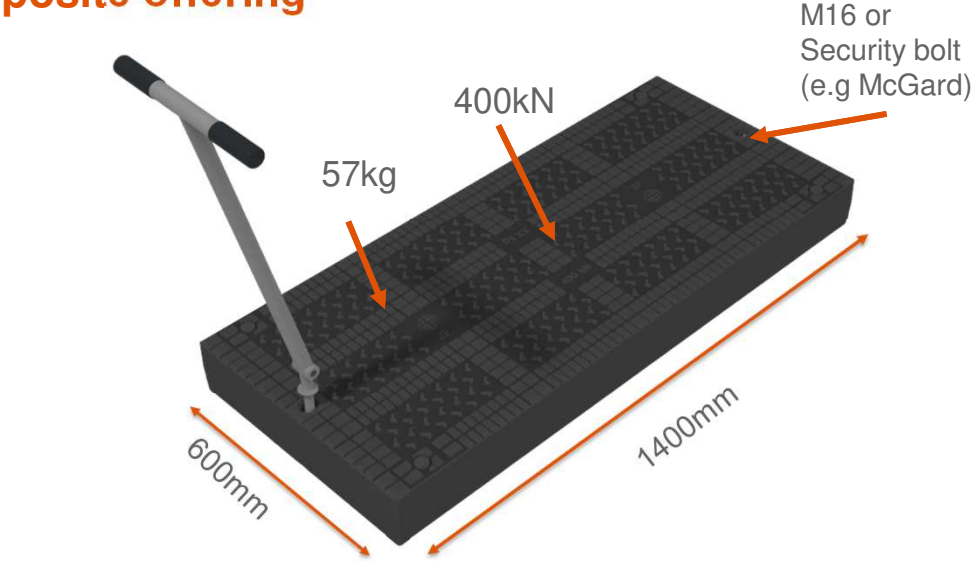
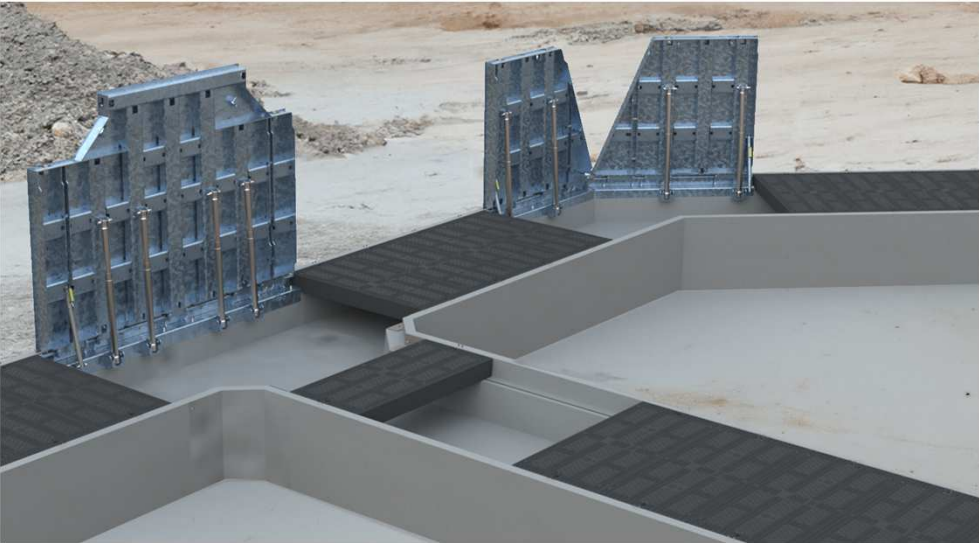
Cable Trench cover with Lift Assist

- **Pre-assembled unit** - fully integrated off-site with the precast trench to increase speed of installation and reducing the labour requirement.
- **Bespoke solution** for non-linear sections such as T's, U-bends and corners.
- **Certified by NSAI** and fully compliant with the latest European product standard EN124-3:2015 (for up to 1m openings).
- Raised chequer profile for optimum **anti-skid performance**.
- Manufactured in Ireland and EMEA sites.

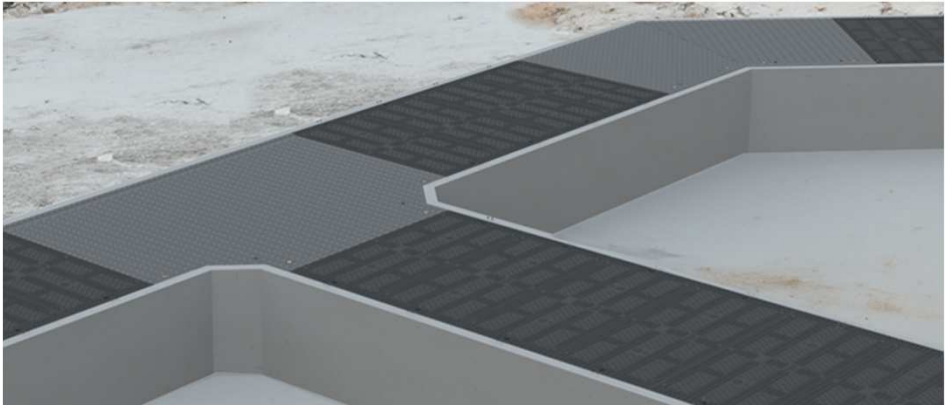


Heavy Duty Composite Trench Cover

ELITE Trench 400kN – 30% lighter than other composite offering



A hybrid cable trench solution combining steel covers to cater for precise angled dimensions, and a high strength composite trench cover. Eliminates cutting of covers and achieves seamless joinings.



Access solutions for MV, LV, HV Networks



MV, LV, HV Vaults

Bespoke Steel solutions – available sealed and unsealed

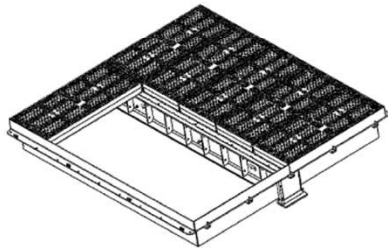
- Specified on Microsoft DCs
- Variety of clear openings
- Lift Assistance
- 3rd party certified to BS 9124
- LPCB certification option
- Bespoke Locking
- Fall protection option



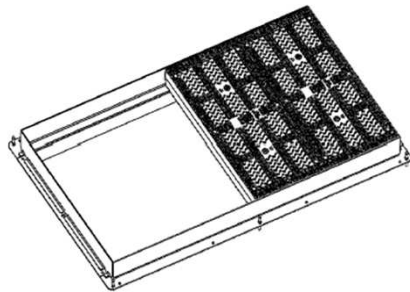
MV, LV, HV Large openings

Hybrid solution - Composite & Steel - unsealed

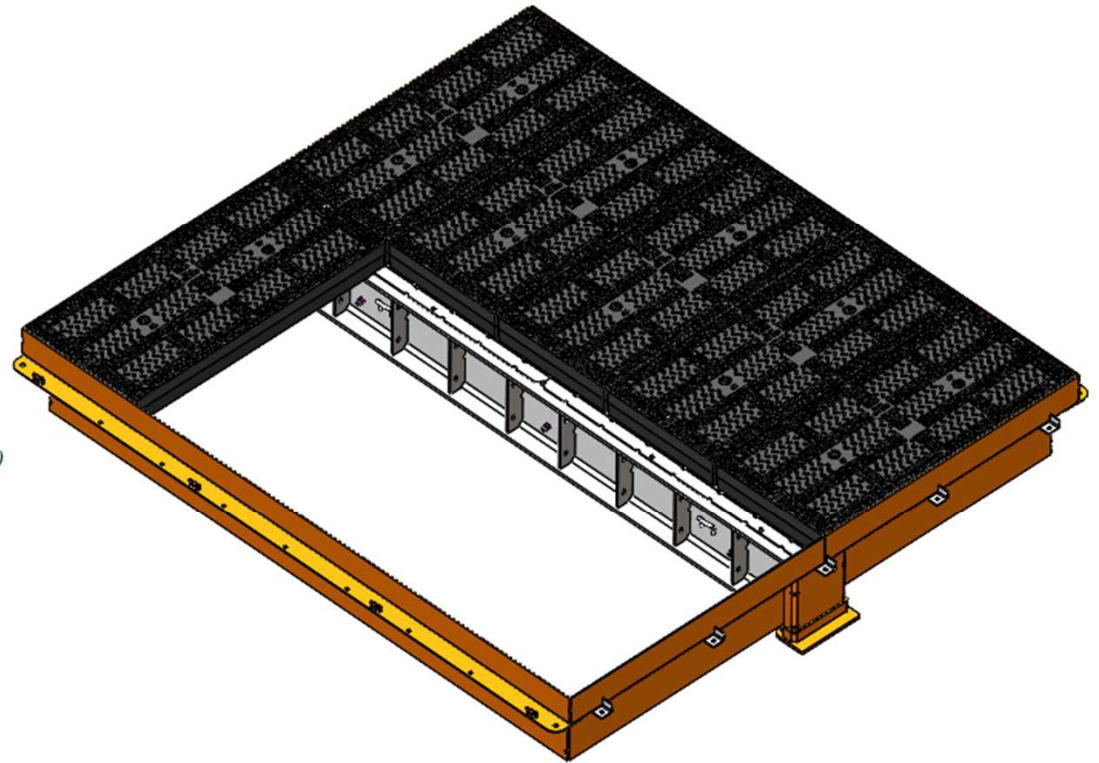
With beam



Without beam



(Non contractual views)



- Fabricated steel frame, 10 covers 1 beam
- 2.9 x 2.6m opening
- Unobstructed access to ducts and drainage systems

MV, LV, HV Vaults

ERMATIC Beamed Units – Air, Gas and Water resistant

- Variety of clear openings to 5 M span
- Removable Beams give complete unobstructed access to chambers
- Security locking
- Lift Assistance optional
- Fall protection optional



Underground Chambers

We supply a wide range of structural underground chambers in composite, polypropylene and concrete



NEXUS Structural Access Chambers

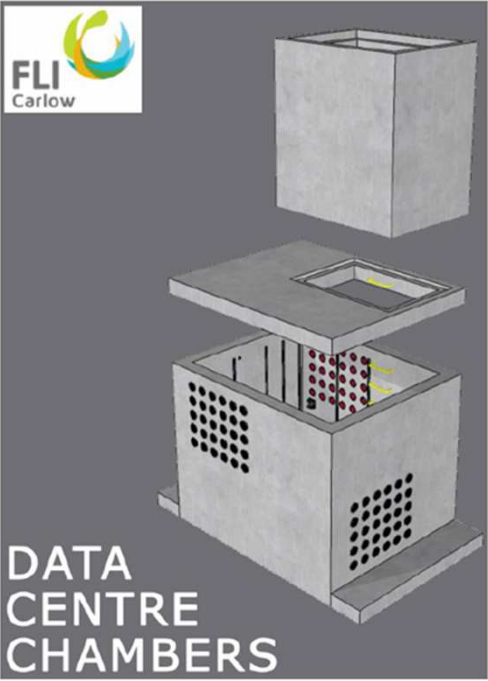


- Up to 2400 mm spans
- Fully recyclable
- Twin wall access chambers
- 40 tonne test load -Structural chamber system
- Lightweight but strong Polypropylene (PP) material



Supplier Collaboration – to supply turnkey solutions

- We partner with a leading pre-caster – FLI, to supply complete fit out COMMS and Electrical concrete chambers with high security, watertight, access covers.
- Combining both our expertise and product offerings help deliver efficiencies on site and cost savings.

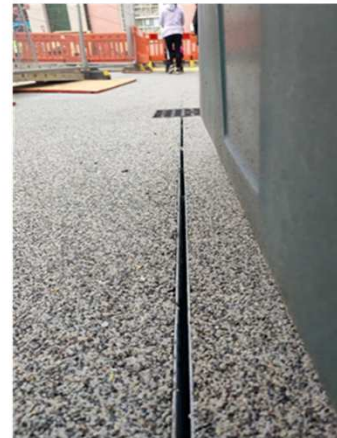


Drainage Solutions



Surface Water Drainage System

Warehousing – Distribution - Car Parks – Ports - Airport - Pedestrianised areas.



Swarm Aqua® is a hybrid surface water drainage system that combines the benefits of proven materials and robust manufacturing techniques to create an exceptional surface water drainage product for external use.

With a focus on strength, rigidity and lighter weight, Swarm Aqua® provides the perfect solution.

Linear Drainage up to F900 loading



Large waterway capacity

- Linear and Modular solutions
- Captive hinge facility
- Openings greater than 600 mm



Channel Drainage

STORA-DRAIN

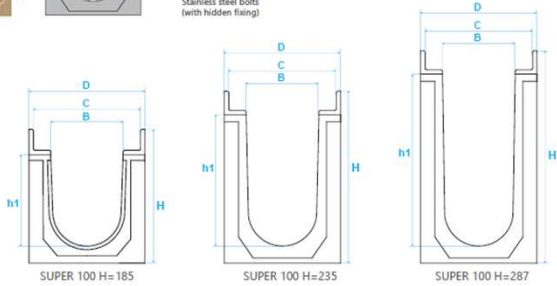
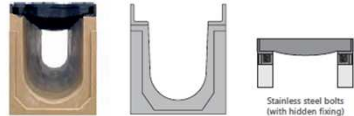
SUPER D400 / F900

POLYESTER CONCRETE DRAINAGE CHANNEL WITH PROTECTIVE IRON PROFILE

Due to their solid design, high strength, good chemical resistance and integrated iron protective edge profile, the polyester concrete channels from the **STORA SUPER** range are the ideal solution for surface water drainage in areas with heavy and intensive traffic loads. The **100mm, 150mm, 200mm** and **300mm** wide channels are available in 3 heights each with level invert and can be installed in stepped-fall system. All channels within the **STORA SUPER** range are delivered complete with gratings in various loadings. **STORA SUPER** channels are suitable for strengths of class **D400** and class **F900**.



STORA SUPER channel with integrated iron profiles



STORA-DRAIN

OPTIMA PLUS D400 / E600

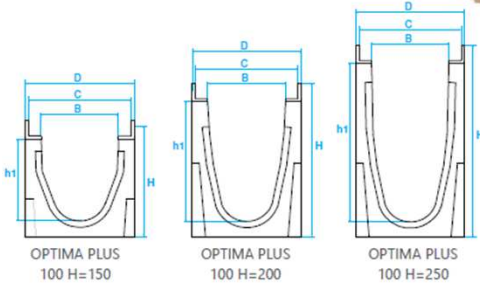
POLYESTER CONCRETE DRAINAGE CHANNEL WITH PROTECTIVE IRON PROFILE

STORA OPTIMA PLUS channels with cast iron protective edge are the ideal solution for surface water drainage in areas with medium to heavy traffic loads. The **STORA OPTIMA PLUS** range offers solutions for surface water drainage in areas such as business parks, industrial estates and car parks that require the ability to withstand heavy loadings. The **STORA OPTIMA PLUS** channels are available in **B=100/150/200/300** width. The low weight of the channels as well the tongue and groove jointing system simplify the installation. The **STORA OPTIMA PLUS** channels are suitable for loadings up to and including **E600**.



Channel STORA OPTIMA PLUS

Channel STORA OPTIMA PLUS with cast iron profiles



High strength, light weight Composite access covers

Why Composite Access Covers?

- Lightweight and easy to handle
 - Non-conductive
 - No scrap value
 - Corrosion resistant
 - No signal interference
- Low risk of back/finger injuries and insurance claims
 - Eliminates any concern about stray voltage arcing
 - Eliminates theft of covers and safety risk of open chambers
 - Suitable for saltwater, wastewater or applications where corrosive liquids are involved.
 - Radio Frequency (RF) friendly and ideal for supporting data transfer between antennas underground and above ground

Large Duct Chamber Openings (B125, >600x600mm)

IDS ELITE multi-part

Product reference	Class	Product code	Clear opening (mm)	Overall dimensions	Frame height (mm)	Total weight (kg)
IDS ELITE 090045	B125	91050024	900 x 450	1007 x 535	28mm	45
IDS ELITE 090060	B125	91050021	900 x 600	1007 x 685	28mm	53
IDS ELITE 090090	B125	91050022	900 x 900	1015 x 1015	28mm	78
IDS ELITE 120060	B125	91050017	1200 x 600	1315 x 715	28mm	62
IDS ELITE 120090	B125	91050018	1200 x 900	1315 x 1015	28mm	93
IDS ELITE 120120	B125	91050023	1200 x 1200	1380 x 1320	28mm	105,5

Additional sizes available upon request



Cover and frames are compatible with our Nexus range of chambers



1200 x 900mm

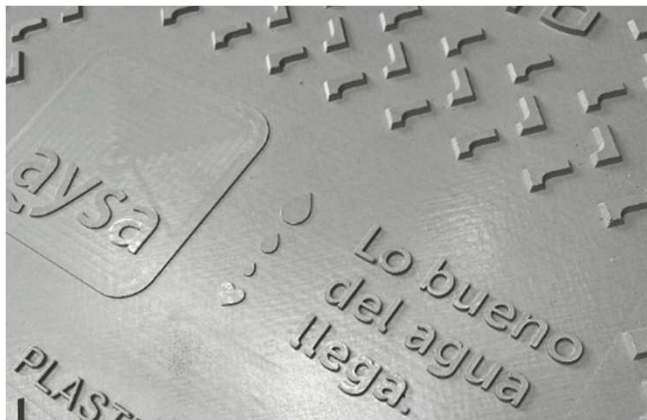
Aesthetics & Client branding

Aesthetics

Available in any RAL colour. The colour is permanent and UV resistant. Grey to blend in with paving or concrete, green for a grass area or blue, red or yellow for underground service identification. We can even incorporate custom logos or markings into the upper surface.



Badging & Branding



We offer

Engineered Solutions &
Design Collaboration with Clients

Bespoke engineering - steel access solutions

Time frame : Q3 2017 – Q4 2024
32 KM of access covers through the city of London



Lift assistance and high security locking to LPCB certification- SR4.



Client – Thames Tideway Tunnel
Contractors – Ferrovial, Laing O'Rourke, Balfour Beatty, Morgan Sindall, Costain, Vinci



Operator Safety– Composite solution

Project / Customer requirement

- National asset refurbishment project.
- 750,000 cover replacements over 10 years.
- Improve operator safety and eliminate heavy lifting equipment on site.

8kg cover vs 80kg concrete

Solution

- 3 year engineering, design, prototyping and testing phase.
- EJ Ireland, Deutschland + DTAG collaboration.
- Hybrid product: Composite cover + fab. steel frame.
- Highly **engineered** and bespoke product family (3 sizes).
- **Ergonomic**: <10kg cover (vs 80kg concrete).
- 50% reduction in **installation time** vs concrete.
- Fully **certified** to latest European product standard.
- Development of new product specification document with DTAG.



We can guide you in taking a
risk adverse approach to
access cover specification

Key considerations when selecting access covers

- Design & technical assistance required – to minimize issues post installation
- Frequency of chamber access – ergonomics, type of lift assistance
- Compliance to industry standards for a risk adverse approach
- Level of security – anti terrorist, LPCB certification, be-spoke locking
- Additional Safety features- Edge & Fall protection safety grids
- Watertight covers – sealed/ unsealed chambers
- Installation support, Operations & Maintenance training

Outcome will be risk adverse, fit for purpose, secure solutions to protect assets and operators over the lifetime of the DC facility.



Ergonomics & speed of access to chambers



Eliminate multiple person heavy lift operation and hired in lifting equipment



1 person lift achieved with mechanical lift assistance

Mechanical Spring Struts

- Ensures lifting effort is less than 10 kg /25kgs
- Stainless Steel – lifetime performance

Accessible Infrastructure – Safety & High Security

Minimising risks during Operation & Maintenance procedures – with edge protection and fall protection safety grid
High Security Accredited product to protect assets



High Security Bespoke Locking arrangements with coded keys.

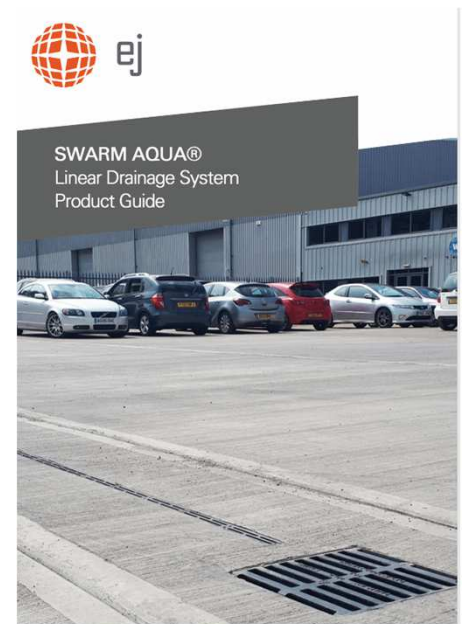
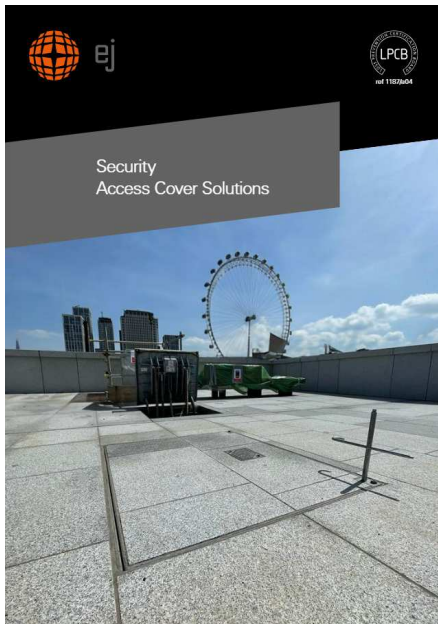


Sustainability

- EPDs – Life cycle analysis (LCA) completed on Steel/ Composites/ Iron, verification by Viridis
- ISO 14001 Certification
- 92% recycled materials in construction castings
- EJ products satisfy credit under LEED® in the Materials and Resources Category
- EcoVadis Certification for CSR



Thank you for your time.



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To download Catalogues, Product Drawings, Case Studies



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