



CABLE TRAY SYSTEMS

v 1.0

www.sitie.it/cable-tray-systems



INDUSTRIAL CABLE TRAYS

Cable ladders/trays serve the dual purpose of housing and distributing electrical cables in various environments, while also protecting them from aggressive and corrosive agents found in many industrial settings, especially in the Oil and Gas sector.

SITIE cable trays, thanks to the high quality of materials used, the wide range of available components, and easy assembly, fully fulfill both functions while ensuring quick installation times.



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WHO WE ARE

Operating in Italy and worldwide since 1945, we specialize in the Oil & Gas, Energy, HVAC, MEP, and Infrastructure sectors.

We are a team of experienced, flexible professionals, dedicated to safety and the highest quality standards in every project. Leveraging our deep industry expertise, we provide technical solutions that ensure our Partners and Clients benefit from effective, secure, and cost-efficient project designs.



MISSION

We implement projects across all industrial and energy sectors with a sustainable approach that respects the environment and our workforce's health and safety. Committed to avoiding disadvantages to Third Parties and refraining from unlawful or unethical practices, we pursue fair profit while promoting individual growth, with a focus on empowering younger generations.



VALUES

- Ethics
- Life Quality
- Shared Goals
- Transparency
- Diversity, Equity
- Collaborative Spirit
- Comfortable Work Environment
- Respect for Clients and Companies

VISION

To promote a new approach to sustainable development focused on environmental respect, integrity in business relations, advanced technologies, and a strong sense of social responsibility.

COMPANY HISTORY

1975-2000

Riding the wave of business success, the company expands its reach and goes international. By the early 2000s, SITIE employs several hundred skilled technicians and workers, operating across four continents and collaborating with some of the world's most renowned Contractors, especially in the Oil and Gas sector.

1945

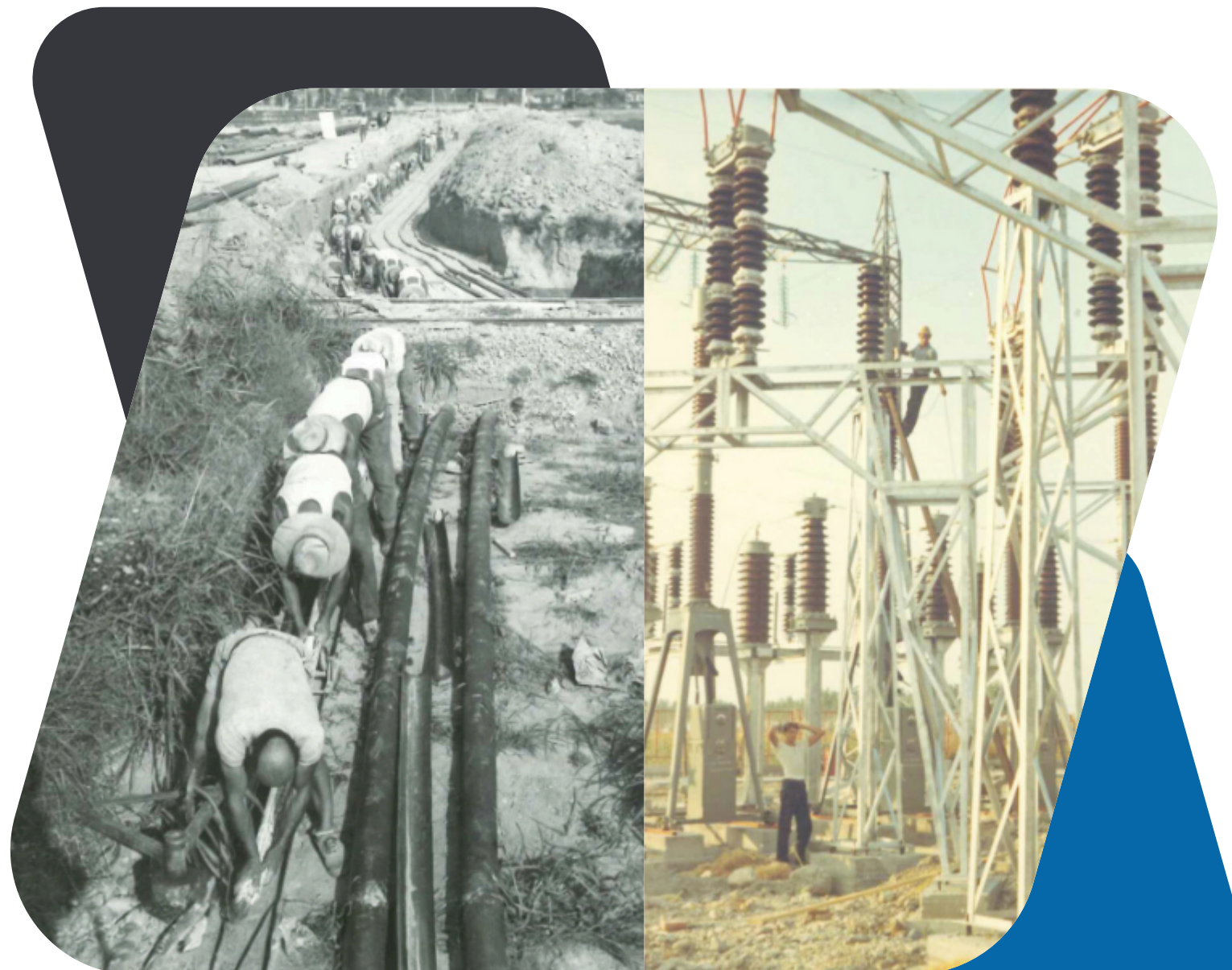
SITIE was founded in 1945 by two entrepreneurs from Ferrara, who established the company as a provider of industrial assembly services and light carpentry works, laying the foundation for a future of innovation and growth.

2000-2020

From 2000 to 2020, SITIE expands its expertise to the energy sector, infrastructure, MEP, and HVAC, transitioning from an entrepreneurial model to a matrix organizational structure.

2020-TODAY

Amid the challenging years of the pandemic, global economic crisis, and new conflicts, SITIE reorganizes by streamlining its structure and focusing its scope. Today, it stands as a lean, dynamic company, able to respond swiftly and effectively to the demands of its most discerning Clients.



Left: Cable laying activities in preparation for the construction of a power plant.
Right: SITIE technicians at the project's completion (Oct. 1966).



QUALITY

Working under quality standards is not just an essential requirement to operate in our fields of expertise, but a truly fundamental principle of our know-how.

Aware of the importance of operating with 'quality,' as well as demonstrating our ability to deliver products that meet the required specifications, we have adopted a Quality Management System in compliance with the UNI EN ISO 9001 standard for the past 20 years. Product

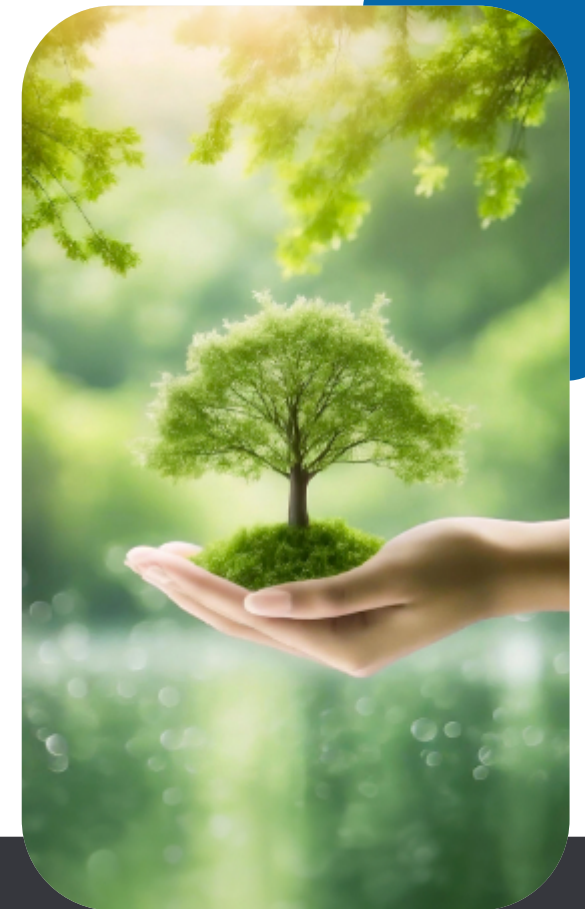
certification according to the CEI EN 61537 standard ensures compliance with product regulations and contractual specifications.

We have always been committed to supporting our Clients by analyzing their needs and offering maximum effectiveness and efficiency, ensuring reliability through the integration of the best available technologies, improving existing systems and equipment, and prioritizing suppliers who continuously enhance the quality of their products.

The involvement of our staff, through continuous training and awareness on culture, organizational techniques, and safety, enables the strengthening of skills and the ongoing improvement of processes.

SAFETY ENVIRONMENT

We operate with the utmost respect for the health and safety of our workers, having adopted specific operational procedures and continuously implementing effective measures and actions to protect workers during their activities and ensure that work environments are consistently healthy, safe, and compliant with all regulations. In addition, we place great emphasis on environmental and social responsibility, adhering to the principles of ESG (Environmental, Social, Governance), and have integrated detailed guidelines for managing these important topics into our corporate procedures.



QUALITY

"Measured against the actual needs of our clients, striving for the direction of 'fit for purpose'."

We have always worked to provide an increasingly satisfying service.



HEALTH & SAFETY

"Tomorrow – your reward for working safely today!"

For us, safety and health are more than just priorities. They are core values, the foundation of our sustainable growth strategy.



ENVIRONMENT

We consider environmental protection a primary value and ensure its safeguarding throughout our activities by adopting all possible measures and initiatives to ensure that future generations can enjoy the benefits of sustainable development.



TAILORED PRODUCTION

Our simple yet well-organized structure allows us to be extremely flexible, enabling us to customize even small batches, effectively meeting the client's needs in cases where there are strict and non-negotiable specifications, such as in the oil & gas, chemical, pharmaceutical, or food industries.

Our production area was established between the late 1960s and early 1970s to support electro-instrumental installations. The specific requirements of these activities immediately shaped our artisanal production approach, which has been carefully optimized over the years to be-

come a real strength.

For us, customization isn't just about deviating from standard catalog materials, thicknesses, and dimensions—it's about creating entirely unique, high-quality products.

We manufacture a wide variety of metalworks: frames for electrical panels, frames for junction boxes, instrument columns, light poles, shel-



ter canopies, protective covers for inverters/instruments/control panels, welded or mechanically attached supports.

Over the years, we have successfully taken on ambitious projects, at times shifting from artisanal to industrial production when needed.

We are the ideal partner for both small in-

stallers needing practical "field solutions" and large contractors who must meet specific project requirements, such as challenging environmental conditions, load capacities, and finishes.

Additionally, we are highly skilled in managing specific requests not only during the design and manufacturing phases but also throughout the entire supply process, with certifications, documentation, and both internal and external testing, as well as comprehensive calculation reports.

**quality
made in Italy
with the perfect
balance of artisa-
nal and industrial**



CABLE LADDERS

PTR

Our flagship product offers exceptional strength, ensuring a high load capacity even with reduced thickness. This design advantage leads to significant cost benefits and easier handling and installation.

This type of cable tray, providing excellent load capacity and necessary ventilation, is particularly well-suited for medium and large-sized cables.

Our PTR is carefully assembled with robotic MAG welding between the side rail and cross bar, followed by a hot-dip galvani-

zing process in full compliance with ISO 1461 standards.

This meticulous process ensures high standards of quality and reliability, a fundamental requirement in the most demanding sectors, such as construction and oil & gas.

lightweight

sturdy

affordable

HEIGHT
100 ÷ 200 mm

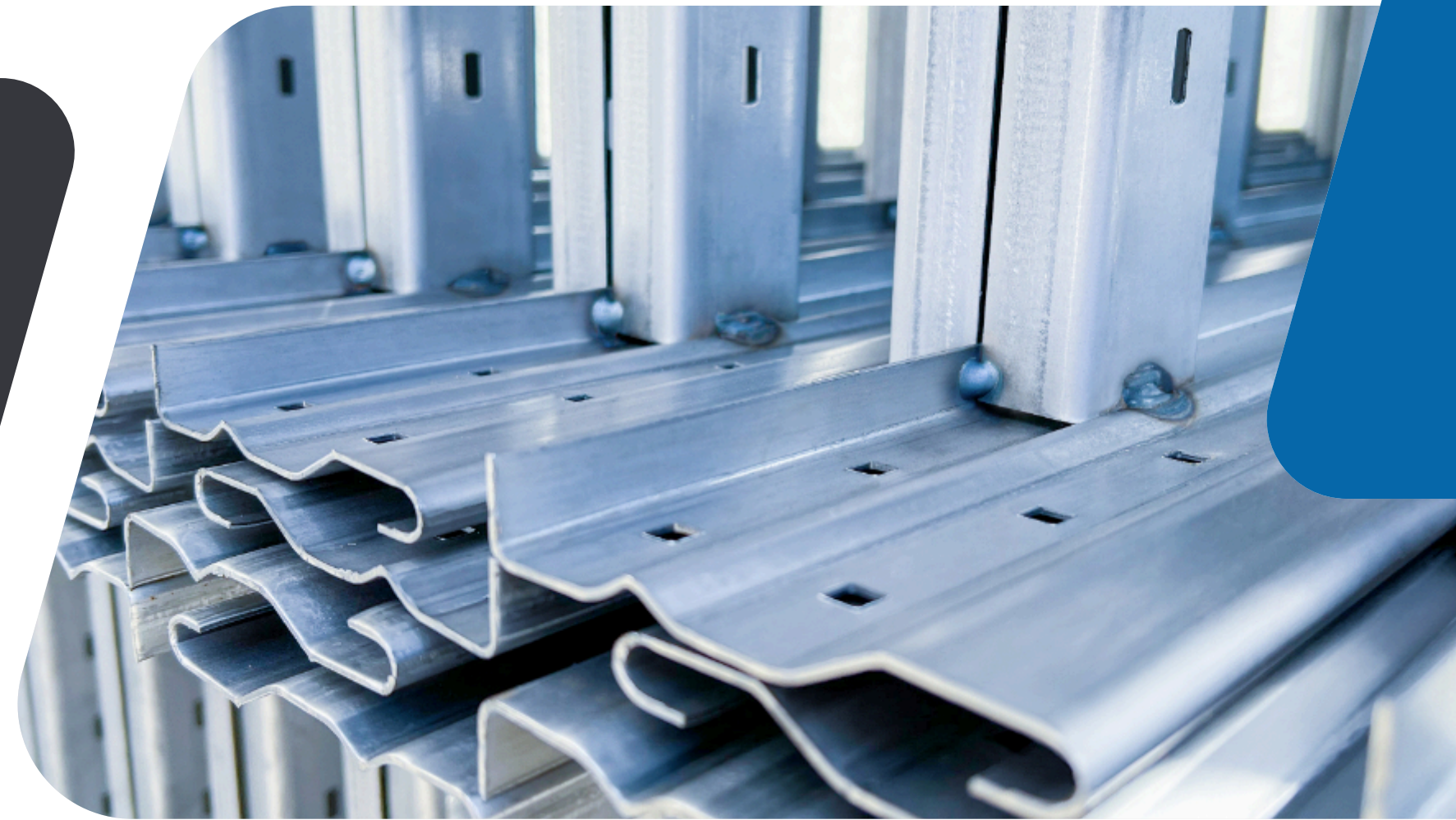
THICKNESS
1.2 ÷ 3.0 mm

WIDTH
100 ÷ 1000 mm

LENGTH
0.5 ÷ 6.0 mt

BENDING RADIUS
300 ÷ 1500 mm

RUNGS INTERAXIS
≥150 mm





Technical Notes

The PTR cable trays are expertly designed and manufactured in full compliance with CEI EN 61537 Class 23-76 standards, and can be produced in various materials and finishes.

The bending radii of the special pieces strictly adhere to CEI 11-17 standards, which define a minimum bend radius based on cable diameter; upon request, different radii from the standard (600mm) are also available.

Covers are typically flat with a standard thickness of 1.00mm; however, other thicknesses and geometries (such as sloped, reinforced ribbing, ventilation slots, drainage holes, etc.) can be provided upon request.



Materials

- Carbon steel*
- Stainless steel AISI 304
- Stainless steel AISI 316L
- Aluminum



Finishes and treatments

- Hot dip galvanization
- Chemical cleaning
- Powder coating
- Anodizing
- Passivation

Load Capacities

The PTR cable tray system has undergone rigorous testing to define the maximum applicable loads in compliance with CEI EN 61537 standards.

In our catalog, you'll find diagrams that, based on the distance between supports, define both the maximum uniformly distributed load and the maximum allowable load when a concentrated load is applied: for this purpose, a concentrated load of 900 N positioned midway between supports was considered.

The CEI EN 61537 standard specifies a maximum allowable longitudinal deflection of 1/100 of the support distance and a maximum allowable transverse deflection of 1/20 of the tray width. The deflection of the PTR cable tray system remains well within these defined parameters.



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the catalogues area



* including special steels, like silicon-enriched ones, that can be galvanized to class 3 and those suitable for low temperatures.

CABLE TRAYS

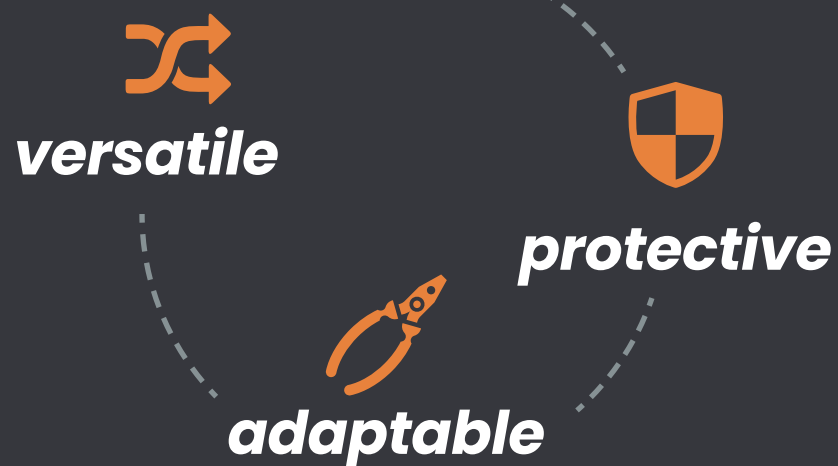


Trays with continuous bases protect cables from external conditions and are particularly valued for their versatility and adaptability on-site, ensuring maximum flexibility during installation.

This type of cable tray is carefully designed to shield cables from external environments and is typically used for medium-to-small sized cables.

Depending on specific installation needs, the trays may feature perforated bases to provide better ventilation, or be fully

enclosed where there's a need for maximum protection from liquids and dust. The flange can be either standard (PFL) or reinforced (PFLR) with a rolled edge, greatly enhancing durability and load capacity, and allowing high cable fill ratios while meeting stringent industry requirements.



HEIGHT
50 ÷ 150 mm



THICKNESS
1 ÷ 2.0 mm



WIDTH
50 ÷ 1000 mm



LENGTH
0.5 ÷ 5.0 mt



BENDING RADIUS
150 ÷ 600 mm



PROTECTION
IP20 ÷ IP62



Technical Notes

PFLR and PFL trays are thoughtfully designed and manufactured in full compliance with CEI EN 61537, Class 23-76, and can be produced in a variety of materials and finishes.

The bending radii of special pieces follow CEI 11-17 standards, specifying a minimum bending radius based on cable diameter: other radii than the standard (150mm for PFL and 200mm for PFLR) are available upon request. Covers are typically flat with a 1.00mm thickness; if needed, different thicknesses and geometries (such as sloped profiles, reinforced ribs, air vents, drainage holes, etc.) can also be provided.



Materials

- Carbon steel*
- Sendzimir pre-galvanized steel
- Stainless steel AISI 304
- Stainless steel AISI 316L
- Aluminum



Finishes and treatments

- Hot dip galvanization
- Chemical cleaning
- Powder coating
- Anodizing
- Passivation

Load Capacities

The PFLR/PFL tray system has undergone extensive testing to accurately determine the maximum applicable loads, in full compliance with CEI EN 61537 standards. In our catalog, you'll find detailed diagrams specifying, based on the distance between supports, the maximum uniformly distributed load capacity as well as the load tolerance for concentrated weights. For concentrated load testing, a weight of 800 N (applicable to PFLR H100 only) was positioned precisely at the midpoint between supports. The CEI EN 61537 standard specifies a maximum allowable longitudinal deflection of 1/100 of the support span, and a maximum transverse deflection of 1/20 of the tray width. The PFLR/PFL tray system's deflection comfortably meets these requirements, confirming its reliability under load.



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* including special steels, like silicon-enriched ones, that can be galvanized to class 3 and those suitable for low temperatures.

SUPPORTS & FASTENERS



Our extensive experience in installations has enabled us to focus on developing essential, high-quality accessories to effectively meet the most common installation needs.

The range of standard accessories in our catalog is both essential and highly comprehensive, effectively meeting the most common installation needs with ease and reliability.

We offer the capability to customize any type of accessory, adapting it to specific

project or system requirements, or simply to overcome unique installation challenges.

Our technical office collaborates with clients to design and engineer tailored solutions that achieve the best balance between practicality and cost-effectiveness.



Load Capacities

Our Supports and Fixings meet the most stringent requirements of the Oil & Gas industry, where strength is a fundamental and often over-dimensioned requirement. Our products, including customized solutions, are designed in compliance with the highest engineering standards and, upon request, can be certified through structural calculation reports. All relevant data (load capacities, moments of inertia, class, and bolt torque values...) required for selecting and/or engineering the most suitable solution are available in our catalog, which can be accessed in the dedicated section below.



Materials

- Carbon steel*
- Stainless steel AISI 304
- Stainless steel AISI 316L
- Aluminum



Finishes and treatments

- Hot dip galvanization
- Chemical cleaning
- Powder coating
- Anodizing
- Passivation

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POLES & SUPPORTS

These materials—including lighting poles, instrument support columns, and control panel frames—are among our most highly customizable products, as each facility and installation presents unique requirements. For example, certain facilities or designated areas may contain explosive atmospheres, requiring specialized solutions like our explosion-proof lighting poles. In other cases, weatherproof or sealed materials are essential for protec-

tion against harsh environmental conditions.

Our team collaborates closely with clients to determine the most optimal solutions, guiding them toward choices that balance technical requirements with cost efficiency.

A variety of pre-engineered solutions are available in our catalog, compliant with the stringent standards of leading Oil & Gas contractors.



Materials

- Carbon steel*
- Stainless steel AISI 304
- Stainless steel AISI 316L
- Aluminum



Finishes and treatments

- Hot dip galvanization
- Chemical cleaning
- Powder coating
- Anodizing
- Passivation



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KEY PROJECTS

Click on the image to view the project details or visit [sitie.it/projects](https://www.firefly.com/sitie.it/projects)



TUNNEL FREJUS



C.U. ENEFIT POWER



CORU REFINERY



AMURSKY GPP



P.MA MABOQUEIRO



PEAKERS ENIPOWER



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