Energy and Industrial

PT Freyssinet Total Technology

FREYSSINET
SUSTAINABLE TECHNOLOGY

Canada - Hebron Oil Field
Post-tensioning strand system

The Freyssinet Spirit

As a market leader in our sectors, we deliver efficient, sustainable solutions to meet client requirements around the world. Our one-of-a-kind specialist civil engineering expertise enables us to handle every challenge.

Canada - Hibernia Offshore Platform
Post-tensioning strand systems

PT Freyssinet Total Technology

With a steadfast commitment to excellence spanning nearly four decades, PT Freyssinet Total Technology has served as the distinguished representative of our esteemed parent company, the Soletanche Freyssinet Group, in Indonesia since 1983. Over this period, we have diligently completed over 2000 specialized projects, catering to the unique needs of public and private enterprises nationwide. Our unwavering dedication to employing cutting-edge Freyssinet Technologies has solidified our position as a prominent leader within the prestressing market and the specialized construction sector. Our enduring legacy of innovation and exceptional service is a testament to our unwavering pursuit of engineering excellence.

Energy and Industrial

Civil engineering is pivotal in constructing energy and industrial facilities, ensuring critical infrastructure safety, durability, and efficiency. PT Freyssinet Total Technology, a distinguished contractor specializing in post-tensioning, seismic isolation, geotechnical solutions, repair, and structural construction, exemplifies the indispensable link between civil engineering expertise and the intricate needs of the broader energy and industrial sectors.

Our Commitment to Excellence

We strive for excellence across all our activities – employee safety, international expansion, human resources, solution design and risk control. Excellence is the ethical cornerstone of our approach, underpinning the exacting way in which we carry out our projects. Customer satisfaction is the benchmark against which we measure our performance.

At forefront of construction and structural repair

+50	6,330	€852	10,000
subsidiaries worldwide	people on 5 continents	million in revenue in 2022	projects per year in over 80 countries

* Data from Freyssinet Group in 2022

Freyssinet is part of the Soletanche Freyssinet Group, which has an unrivalled reputation in the field of specialised civil engineering - a world leader in the soils, structures and nuclear sectors. Organised in geographical zones spanning five continents, we operate in more than 100 bases with strong local roots.

Our ultimate parent, Vinci Group, is a global player in concessions and construction, with over 185,000 employees and turnover exceeding €38 billion.

Post Tensioning System and Bar

- Post-tensioning is a construction technique that involves applying tension to reinforce concrete structures after the concrete has been cast. Post-tensioning systems typcally include high strength steel tendons or bars that are stressed after the concrete has been set, creating internal forces to enhance the structure's strength and durability.

Bearing and Expansion Joints:

- Bearing Joints: These are used to accommodate movement in structures, particularly in bridges. They allow for thermal expansion, contraction, and other dynamic forces.
- Expansion Joints: Similar to bearing joints, expansion joints provide flexibility to structures, allowing them to expand and contract without causing damage.

Seismic Protection Devices:

- LRB (Lead Rubber Bearing): LRB isolators use layers of rubber and lead to absorb and dissipate seismic energy, reducing the transmission of forces to the structure.
- HDRB (High-Damping Rubber Bearing): Like LRB, HDRB isolators use high-damping rubber to enhance energy dissipation during seismic events.
- Pendulum Bearing: Pendulum bearings allow controlled movement in response to seismic forces. They help protect structures by dissipating energy.
- Dampers: Structural dampers, such as tuned mass dampers or viscous dampers, absorb and dissipate energy, reducing the impact of seismic forces on buildings.

Lifting Services:

- Heavy Lifting and Lowering: Specialized lifting services involve using heavy-duty equipment and techniques to lift and lower large and heavy structural components, facilitating construction and maintenance operations.

Slope Strengthening:

- Ground Anchor: Ground anchors stabilize slopes,retaining walls, and other structures. They involve drilling into the soil and installing anchors to resist lateral forces and prevent soil movement.
- Shotcrete: Shotcrete, or sprayed concrete, is a technique used for slope stabilization. It involves projecting concrete onto a surface at high velocity , providing structural reinforcement.
- Soil Nailing : Soil nailing is a method where steel bars or other reinforcing elements are inserted into a slope or excavation to stabilize the soil and prevent erosion.

Structural Repair

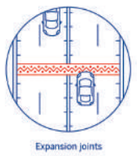
- External Prestressed: External prestressed reinforcement involves applying additional tension to a structure using external tendons or cables to enhance its load-carrying capacity.
- FRP (Fiber Reinforced Polymer): FRP materials, such as carbon or glass fiber composites, are used for structural repair and strengthening, providing lightweight and corrosion-resistant alternatives.
- Micropiles : Applied for foundation support and slope stabilization, particularly in areas with limited access or challenging ground conditions.
- Re-alignment by jacking and sliding : re-alignment through jacking and sliding involves precision techniques to adjust structures, ensuring optimal alignment and functionality without the need for extensive reconstruction.

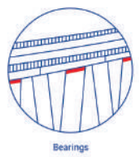
Cable Stay Structure

- A cable-stayed structure is a bridge or building where cables support the structure. The cables are attached to towers or supporting structures, providing stability and load distribution.

MSE Wall (Reinforced Earth Wall)

- Reinforced Earth Wall: Mechanically Stabilized Earth (MSE) walls use supporting elements such as geogrids to stabilize and strengthen soil structures. They are commonly used in retaining walls and bridge abutments.





Our Expertise

Denmark - Dong Siri
Repair & Post-tensioning maintenance

OIL AND GAS

Serving the oil and gas sector, PT Freyssinet Total Technology excels in providing comprehensive solutions for structural integrity, safety, and reliability. From post-tensioning to seismic isolation, our commitment to excellence is evident. We're dedicated to sustaining oil and gas facilities through geotechnical expertise and meticulous repair services, ensuring growth and sustainability in the energy sector.

Civil engineering is vital in the oil and gas sector, overseeing design, construction, and maintenance of critical facilities, including:

Refineries
Pipelines and Transportation Infrastructure
Storage Facilities
LNG (Liquefied Natural Gas) Facilities
Petroleum and Gas Processing Plants
Supporting Infrastructure
Environmental Facilities
Offshore Installations

Canada - Hibernia Offshore Platform
Post-tensioning strand systems

Our Solution for Oil and Gas

Post Tensioning

Post-Tensioning Systems: Used for reinforcing concrete structures in various applications, including the construction of oil and gas processing plants, pipelines, and storage facilities.

Pre-Stressed Concrete Components: Components like pre-stressed concrete beams and girders may be employed in constructing bridges, walkways, and other structures within oil and gas facilities.

Seismic Protection Devices:

Base Isolators: Base isolators, such as lead rubber bearings (LRB) or high-damping rubber bearings (HDRB), can protect structures from seismic forces. They absorb and dissipate energy, reducing the transmission of parties to the structure.

Seismic Dampers: Structural dampers, such as tuned mass dampers or viscous dampers, are employed to mitigate the impact of seismic forces on structures within the oil and gas sector.

Pendulum Bearings: Pendulum bearings provide controlled movement during seismic events, helping to dissipate energy and protect critical infrastructure.

Geotechnical Solutions:

Ground Anchors: Utilized for stabilizing foundations, slopes, and retaining walls in challenging soil conditions. They may be employed in constructing infrastructure, such as oil and gas processing plants.

Soil Nailing: Used for stabilizing slopes, preventing erosion, and reinforcing soil in areas where retaining structures are needed.

Shotcrete: Shotcrete, a mix of cement, sand, and water applied at high velocity, is essential in oil and gas for cost-effective stabilization and reinforcement of subsurface structures amid geological challenges.

Structural Repair:

Carbon Fiber Reinforcement: Carbon fiber reinforcement is used for repairing and strengthening concrete structures, including columns, beams, and other components within oil and gas facilities.

FRP (Fiber Reinforced Polymer): FRP materials, such as carbon or glass fiber composites, can be used for structural repair and strengthening, providing resistance to corrosion in aggressive environments.

Concrete Repair Products: Various repair products, including high-strength concrete, epoxy injections, and polymer-modified mortars, may be employed to rehabilitate deteriorated concrete structures

Success Stories

Pertamina Balongan Pipeline
Indonesia | External Post-Tensioning

Donggi Senoro LNG Tank
Indonesia | Post-tensioning strand systems

Jangkrik Complex Gas Extraction
Indonesia | Bearings

LNG Artic Mourmansk
Russia | Bearings

POWER AND ELECTRICITY

Power and Electricity play essential roles in infrastructure. Power and electricity companies rely on civil engineering contractors to plan, construct, and maintain crucial energy infrastructure.

These contractors are instrumental indeveloping power plants, transmission lines, and substations, handling site preparation, foundation construction, and structural engineering tasks. Civil engineering contractors also play a vital role in integrating renewable energy projects, grid expansion, and environmental compliance.

Our expertise is essential for ensuring the electrical grid's reliability, efficiency, and safety, and they contribute to emergency response efforts during natural disasters. From feasibility studies to project management, civil engineering contractors are indispensable partners for the client, supporting energy infrastructure's growth, sustainability, and resilience.

The Structure

Civil engineering plays a critical role in the power and electricity sector, encompassing a variety of structures and facilities to support the generation, transmission, and distribution of electrical energy. Here are critical types of buildings and structures within the power and electricity sector that civil engineers commonly handle:

Power Plants
Hydropower Infrastructure
Renewable Energy
Control Centers
Power Grid Expansion Projects
Energy Storage Facilities
Environmental Facilities
Support Infrastructure

France - Salles Curan Wind Farm
Post-tensioning strand systems

Our Solution for Power and Electrictity

Post Tensioning

Post-Tensioning Systems: Used to reinforce concrete structures in power plants, transmission towers, and substations. Post-tensioning systems provide additional strength and durability to withstand heavy loads and dynamic forces.

Pre-Stressed Concrete Components: Components like pre-stressed concrete beams, girders, and piles are utilized in constructing power plant structures, bridges, and other elements within the power and electricity sector.

Structural Repair

Carbon Fiber Reinforcement: Used for repairing and strengthening concrete structures in power plants, substations, and other facilities. Carbon fiber reinforcement provides high-strength, corrosion-resistant solutions.

FRP (Fiber Reinforced Polymer): Applied for structural repair and strengthening of components such as beams, columns, and walls in the power and electricity sector.

Geotechnical Solutions

Ground Anchors: Applied for stabilizing foundations of power plants, transmission towers, and other infrastructure. Ground anchors counteract lateral forces and enhance stability in various soil conditions.

Soil Nailing: Employed for slope stabilization and preventing erosion around power infrastructure, ensuring the integrity of dams and cut slopes.

Shotcrete: Shotcrete, a mix of cement, sand, and water applied at high velocity, is essential in oil and gas for cost-effective stabilization and reinforcement of subsurface structures amid geological challenges.

Seismic Protection Devices

Base Isolators: Protect critical structures from seismic forces by isolating them from ground motion. Devices like lead rubber bearings (LRB) or high-damping rubber bearings (HDRB) absorb and dissipate seismic energy.

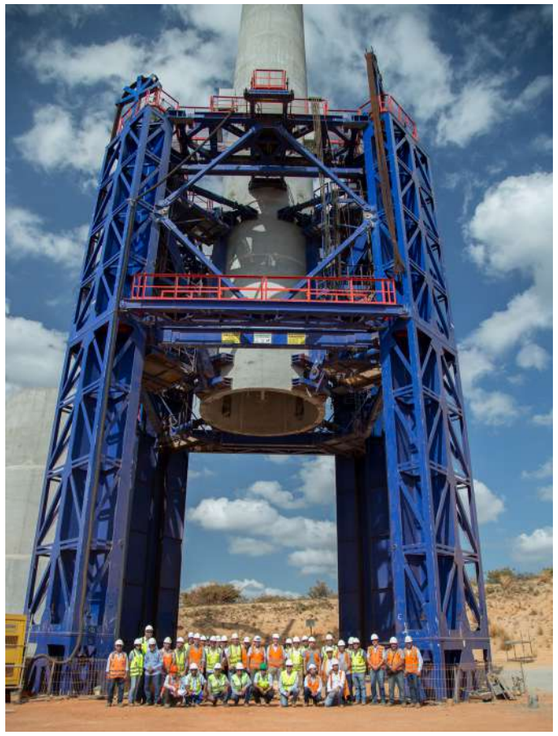
Seismic Dampers: Installed to reduce the impact of seismic forces on structures. Various dampers, including tuned mass and viscous dampers, enhance seismic performance.

Pendulum Bearings: Provide controlled movement during seismic events, dissipating energy and protecting structures such as power plants and substations.

Success Stories

Trairi Wind Farm
Brazil | Heavy lifting and handling Post-tensioning strand systems Precast segmental erection methods

Salles Curan Wind Farm
France | Post-tensioning strand systems



Trairi Wind Farm
Brazil | Heavy lifting and handling Post-tensioning strand systems Precast segmental erection methods

MINING

In the dynamic mining industry, PT Freyssinet Total Technology is a leading expert, specializing in post-tensioning, seismic isolation, geotechnical innovations, repairs, and advanced structural construction. Our commitment to excellence ensures critical infrastructure resilience, safety, and longevity, making us a trusted partner in pushing the boundaries of innovation for sustainable solutions in the mining environment.

The Structure

Civil engineering is crucial in constructing various structures within the mining industry. Some of the critical types of structures that civil engineers can build for the mining sector include:

Mine Shafts, Processing Plants, Tailings Dams, Mining Infrastructure, Surface Facilities, Heap Leach Pads, Water Management Structures, Environmental Remediation Structures, Support Structures for Equipment, Mining Ports, and Jetty

Maruwai Coal
MSE Wall

Our Solution for Mining

Post Tensioning

Post-Tensioning Systems: Used to reinforce concrete structures in mining infrastructure, including shafts, processing plants, and support structures. Post-tensioning enhances structural integrity and load-bearing capacity

Reinforce Earth

Mechanically Stabilized Earth (MSE) Walls: Constructed using reinforced earth technology, MSE walls stabilize embankments and cut slopes in mining sites.

Reinforced Soil Structures: Utilized for constructing retaining walls, abutments, and other critical structures, providing stability and load-bearing capacity

Structural Repair

Carbon Fiber Reinforcement: Utilized for repairing and strengthening concrete structures within mining operations, including processing plants, tunnels, and support systems.

FRP (Fiber Reinforced Polymer): Applied for structural repair and strengthening to provide corrosion-resistant solutions in aggressive mining environments.

Seismic Protection Devices

Base Isolators (LRB, HDRB): Implemented to protect critical structures from seismic forces. Lead rubber bearings (LRB) and high-damping rubber bearings (HDRB) help absorb and dissipate seismic energy.

Seismic Dampers: Used to mitigate seismic forces' impact on mining industry structures, enhancing overall seismic performance.

Pendulum Bearings: Provide controlled movement during seismic events, dissipate energy, and safeguard critical mining infrastructure.

Geotechnical Solutions

Ground Anchors: Applied for stabilizing slopes, retaining walls, and mine shafts, providing essential support in challenging geological conditions.

Soil Nailing: Used for slope stabilization, preventing erosion around mining infrastructure, and reinforcing soil in areas where retaining structures are necessary.

Shotcrete: Shotcrete, a mix of cement, sand, and water applied at high velocity, is essential in oil and gas for cost-effective stabilization and reinforcement of subsurface structures amid geological challenges.

Success Stories

Martabe Gold Mine
Indonesia | Reinforced Earth MSE Wall

Kooragang & Carrington Coal Terminal Wharf
Australia | Repair

Curragh Mine Thickener Tank
Australia | Repair

CSA Mine Cobar - Copper Ore Bin Remediation
Australia | Repair

MANUFACTURING

Civil engineering solutions contribute to structures' efficiency, safety, and resilience in the manufacturing sector. Here are specific prestressing, geotechnical, structural repair, seismic protection devices, and reinforced earth products that can be applied in the manufacturing industry:

The Structure

Civil engineering plays a crucial role in designing and constructing various structures to support production processes, ensure worker safety, and optimize operational efficiency in the manufacturing industry. Here are some common types of structures associated with the manufacturing sector:

Manufacturing Plants
Production Halls
Warehouses and Storage Facilities
Office Buildings
Loading Docks and Logistics Centers
Utility Structures
Supporting Buildings
Assembly Lines and Workstations
Environmental Facilities

Indonesia
PT Paramasuka Gupita (Wings Group) Factory
Repair

Our Solution for Manufacturing

Post Tensioning

Post-Tensioning Systems: Used to enhance the strength and load bearing capacity of manufacturing plant structures, including floor slabs, foundations, and support beams.

Geotechnical Solutions

Ground Improvement Techniques: Geotechnical engineering methods such as dynamic compaction or vibro compaction can be applied to improve the bearing capacity of the soil beneath manufacturing facilities.

Soil Stabilization: Techniques such as soil cement mixing can stabilize the soil, providing a solid foundation for manufacturing structures.

Structural Repair

Carbon Fiber Reinforcement: Applied for repairing and strengthening concrete structures within manufacturing plants, including columns, beams, and floor slabs.

Structural Health Monitoring: Continuous monitoring systems help detect and assess structural issues in real time, allowing for timely repairs and maintenance.

Seismic Protection Devices

Base Isolators (LRB, HDRB): Implemented to protect manufacturing structures from seismic forces. Lead rubber bearings (LRB) and high-damping rubber bearings (HDRB) absorb and dissipate seismic energy.

Seismic Dampers: Used to mitigate the impact of seismic forces on manufacturing facilities, enhancing overall seismic performance.

Pendulum Bearings: Provide controlled movement during seismic events, dissipate energy, and safeguard critical manufacturing infrastructure.

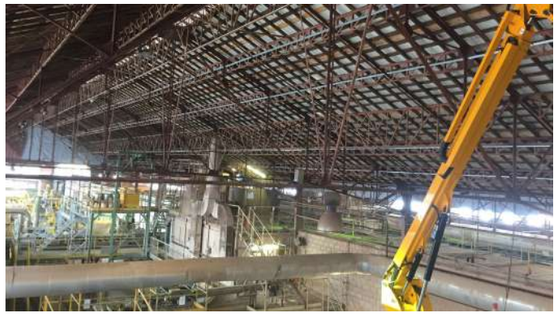
Geotechnical Solutions

Ground Anchors: Applied for stabilizing slopes, retaining walls, and mine shafts, providing essential support in challenging geological conditions.

Soil Nailing: Used for slope stabilization, preventing erosion around mining infrastructure, and reinforcing soil in areas where retaining structures are necessary.

Shotcrete: Shotcrete, a mix of cement, sand, and water applied at high velocity, is essential in oil and gas for cost-effective stabilization and reinforcement of subsurface structures amid geological challenges.

Success Stories



Logistic Center of FMCG Company
France | Freyssibar and prestressing bars

PT Paramasuka Gupita (Wings Group Factory
Indonesia | Repair

Townsville Sugar Terminal
Australia | Post-tensioning bar systems

Unilever Indonesia Headquarter
Indonesia | Post-tensioning bar systems

INDUSTRIAL PROCESS

Netherland - Rotterdam LNG Tank
Post-tensioning strand systems

SMELTER

In smelter facilities, civil engineering contractors, particularly those offering products and services like PT Freyssinet Total Technology, can contribute to constructing and maintaining various critical structures. Here are some types of structures within smelter facilities where civil engineering expertise, along with Freyssinet products and services, can be applied:

Furnace Structures, Chimneys and Stacks, Cooling Towers, Processing Plant Structures, Material Handling Structures, Support Structures for Equipment, Foundations for Tanks and Silos, Structural Health Monitoring Systems, Safety Barriers and Enclosures, Environmental Control Structures.

Civil engineering solutions are crucial for smelter infrastructure to ensure structures' stability, safety, and longevity. Here are specific prestressing, geotechnical, structural repair, seismic protection devices, and reinforced earth products that can be applied in the context of smelter facilities:

Prestressing:

· Post-Tensioning Systems: Applied to reinforce foundations, beams, and other structural elements of smelter facilities, providing additional strength and load-bearing capacity.

Geotechnical Solutions:

· Ground Anchors: Used for stabilizing foundations, retaining walls, and other structures in areas with challenging geological conditions commonly found in smelter sites.
· Micropiles: Applied for foundation support and slope stabilization, particularly in areas with limited access or challenging ground conditions.

Structural Repair:

· Carbon Fiber Reinforcement: Utilized for repairing and strengthening concrete structures within smelter facilities, including columns, beams, and slabs.
· Epoxy Injection: Applied for repairing cracks and enhancing the structural integrity of concrete elements affected by corrosion or other forms of deterioration.

Seismic Protection Devices:

· Base Isolators (LRB, HDRB): Implemented to protect critical structures from seismic forces. Lead rubber bearings (LRB) and high-damping rubber bearings (HDRB) absorb and dissipate seismic energy.
· Seismic Dampers: Used to mitigate the impact of seismic forces on smelter infrastructure, enhancing overall seismic performance.
· Pendulum Bearings: Provide controlled movement during seismic events, dissipating energy and safeguarding critical structures in the event of an earthquake.

Reinforced Earth Products:

· Mechanically Stabilized Earth (MSE) Walls: Constructed using reinforced earth technology, MSE walls stabilize embankments and cut slopes around smelter facilities.
· Reinforced Soil Structures: Utilized for constructing retaining walls, abutments, and other critical structures, providing stability and load-bearing capacity.

REFINERY

Various structures benefit from specialized engineering solutions to ensure durability, safety, and operational efficiency within arefinery project. Here are specific types of systems where prestressing, seismic isolation, bearing, expansion joint, geotechnical, structural repair, and reinforced earth solutions play a crucial role:

Distillation Columns, Storage Tanks, Pipelines and Piping Systems, Processing Units and Reactors, Bridges and Walkways, Foundations and Footings, Control Rooms and Administrative Buildings, and Retaining Walls.

Civil engineering solutions are crucial for smelter infrastructure to ensure structures' stability, safety, and longevity. Here are specific prestressing, geotechnical, structural repair, seismic protection devices, and reinforced earth products that can be applied in the context of smelter facilities:

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Reinforced Earth Products:

· Mechanically Stabilized Earth (MSE) Walls: Constructed using reinforced earth technology, MSE walls stabilize embankments and cut slopes around smelter facilities.
· Reinforced Soil Structures: Utilized for constructing retaining walls, abutments, and other critical structures, providing stability and load-bearing capacity.

Our Solution for Silo

For silo construction, a range of civil engineering solutions can be applied to ensure stability, durability, and seismic resilience. Here are specific products and services in prestressing, geotechnical engineering, structural repair, seismic protection, and reinforced earth that can be utilized for silo buildings:

Post Tensioning

Post-Tensioning Systems: Applied to enhance the load-bearing capacity of silo structures, particularly in large-scale or high-capacity silos.

Reinforced Earth

Mechanically Stabilized Earth (MSE) Walls: Constructed using reinforced earth technology, MSE walls provide stability to embankments around silo buildings.

Reinforced Soil Structures: Utilized for constructing retaining walls, abutments, and other critical structures, providing stability and load-bearing capacity.

Structural Repair

Carbon Fiber Reinforcement: Used to repair and strengthen concrete elements in the silo that may experience wear, corrosion, or other forms of deterioration.

Concrete Jacketing: Applied to reinforce and repair columns and other structural components, extending the life of the silo.

Seismic Protection Devices

Base Isolators (LRB, HDRB): Implemented to protect silo structures from seismic forces. Lead rubber bearings (LRB) and high damping rubber bearings (HDRB) absorb and dissipate seismic energy.

Seismic Dampers: Used to mitigate the impact of seismic forces on silo buildings, enhancing overall seismic performance.

Geotechnical Solutions

Ground Anchors: Ideal for stabilizing the foundation and controlling lateral forces in silo construction, ensuring long-term structural integrity.

Soil Nailing: Effective in preventing soil erosion, supporting excavations, and reinforcing soil in proximity to the silo structure.

Shotcrete: Applied to strengthen and protect soil slopes, retaining walls, or existing surfaces, offering an efficient solution for soil stabilization around the silo

Success Stories

Silo Semen Tuban
Indonesia | Post-tensioning strand systems

Silo Aceh
Indonesia | Post-tensioning strand systems

Silo Ciwandan
Indonesia | Post-tensioning strand systems

Golden Bay Cement Silo
New Zealand | Repair and additional post-tensioning

OUR TEAM

Freyssinet employees have contributed to the company's success and corporate image for more than half a century. They are our primary asset

A breeding ground for talent

To meet the needs created by our strong growth on five continents, we pay special attention to our recruitment policy. As a partner of a large number of universities around the world, every year we offer internships and work-study contracts and host several people enrolled in the Volontaires internationaux en entreprise (VIE) programme. We make a point of promoting long-term employment of graduates and experienced people, alike primarily with a technical educational background

Supporting skills

Training, supporting and promoting Freyssinet's people is a priority at the company and helps drive our expansion. Our relationship with our employees is focused on their long-term employability, which we foster in our dedicated training centres. The Freyssinet Academy for development of skills in our business activities, the Foreva Team for repair specialities and PM+ for overall project management are just a few examples of our overall skills management training.

Mobility for job promotion

Geographical mobility, especially among our supervisory staff, makes our teams responsive and adaptable. This gives them prospects for promotion based on the development of skills and empowerment

Promoting equal opportunities

Freyssinet promotes integration, diversity and equal opportunities. Across all the countries in which we have locations, the company cultivates across-the-board gender equality in our teams. We also support our employees' volunteer work on behalf of local development and education.

Global Standard with Local Expertise

Beyond Certification

PT Freyssinet Total Technology is dedicated to operating in Indonesia, aligning with local requirements while maintaining international quality standards. We are delighted to announce our accomplishment of the 3 ***Tingkat Komponen Dalam Negeri (TKDN)***, also widely recognized as the Domestic Component Level Certification. a notable achievement that underscores our commitment to fostering Indonesia's local content development. In addition, we have received certifications for ISO 9001 and ISO 45001, further highlighting our dedication to excellence in both quality management and occupational health and safety. These certifications showcase our unwavering commitment to delivering top-tier solutions while contributing to the growth and sustainability of Indonesia's industrial landscape.

Domestic Component Level Certification


Kementerian Perindustrian
REPUBLIK INDONESIA

TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian Republik Indonesia Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah, Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah Yang Tidak Dibiayai Dari Anggaran Pendapatan Dan Belanja Negara/Anggaran Pendapatan Dan Belanja Daerah, dan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas Capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk	:	Elastomer Seismic Isolator Bearing
Tipe	:	Lead Rubber Bearing (LRB)
Spesifikasi	:	D-850 – D-950
Kode HS	:	40169670
Merk	:	FREYSSINET
Nilai TKDN	:	76,59%
Terbilang	:	Tujuh puluh enam koma lima sembilan persen
Standard Produk	:	-
Sertifikat Produk	:	-
No. Laporan	:	LPA-0071/PK-3216/PTKDN/KOM-INFRAS/V/22

yang telah ditandasahkan oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan	:	PT. Samudera Luas Paramachira
Alamat	:	Jl. Raya Cirebon – Tegal KM. 10,1 Dusun 02 RT. 02 RW 04 DESA KANCI, Kel., Kec., Kab. Cirebon, Prov. Jawa Barat
NPWP	:	01.522.993.2-426.000
Jenis Industri	:	Industri Barang dari Karet untuk Keperluan Industri (KBLI: 22192)
No. Tanda Sah	:	1594/SJ-IND.8/TKDN/5/2022

Jakarta, 20 Mei 2022

Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri

Nita Kumalasari

Lead Rubber Bearing D850 - D950


Kementerian Perindustrian
REPUBLIK INDONESIA

TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian Republik Indonesia Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah, Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah Yang Tidak Dibiayai Dari Anggaran Pendapatan Dan Belanja Negara/Anggaran Pendapatan Dan Belanja Daerah, dan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas Capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk	:	Elastomer Seismic Isolator Bearing
Tipe	:	Lead Rubber Bearing (LRB)
Spesifikasi	:	D-600
Kode HS	:	40169970
Merk	:	FREYSSINET
Nilai TKDN	:	76,26%
Terbilang	:	Tujuh puluh enam koma dua lima persen
Standard Produk	:	-
Sertifikat Produk	:	-
No. Laporan	:	LPA-0000/PK-3216/PTKDNKOM-INFRAS/III/22

yang telah ditandasahkan oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan	:	PT. Samudera Luas Paramachira
Alamat	:	Jl. Raya Cirebon - Tegal Km. 10,1 Desa Kanci, Kecamatan Astanajapura, Kabupaten Cirebon - 45181
NPWP	:	01.522.993.2-426.000
Jenis Industri	:	Industri Barang dari Karet untuk Keperluan Industri (KBLI: 22192)
No. Tanda Sah	:	525/SJ-IND.8/TKDN/3/2022

Jakarta, 11 Maret 2022

Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri

Nita Kumalasari

Lead Rubber Bearing D600


Kementerian Perindustrian
REPUBLIK INDONESIA

TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian Republik Indonesia Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah, Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Pengadaan Barang/Jasa Pemerintah Yang Tidak Dibiayai Dari Anggaran Pendapatan Dan Belanja Negara/Anggaran Pendapatan Dan Belanja Daerah, dan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas Capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk	:	Elastomer Expansion Joint
Tipe	:	Steel Reinforced Elastomer Joint
Spesifikasi	:	SFX 300
Kode HS	:	7308109
Merk	:	FREYSSINET
Nilai TKDN	:	66,93%
Terbilang	:	Enam puluh enam koma sembilan tiga persen
Standard Produk	:	-
Sertifikat Produk	:	-
No. Laporan	:	LPA-0299/PK-3216/PTKDNKOM-INFRAS/III/22

yang telah ditandasahkan oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan	:	PT. Samudera Luas Paramachira
Alamat	:	Jl. Raya Cirebon - Tegal Km. 10,1 Desa Kanci, Kecamatan Astanajapura, Kabupaten Cirebon - 45181
NPWP	:	01.522.993.2-426.000
Jenis Industri	:	Industri Barang dari Karet untuk Keperluan Industri (KBLI: 22192)
No. Tanda Sah	:	524/SJ-IND.8/TKDN/3/2022

Jakarta, 11 Maret 2022

Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri

Nita Kumalasari

Steel Reinforced Elastomer Joint SFX 300

International Certification


Bureau Veritas Certification

PT. FREYSSINET TOTAL TECHNOLOGY

METROPOLITAN TOWER, LANTAI 9 UNIT DE, JL. R.A. KARTINI KAV. 14 TB SIMATUPANG, KEC. CILANDAK, JAKARTA, INDONESIA

This is a multi-site certificate, additional site(s) are listed on the next page(s)

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 45001:2018

Scope of certification

PROVISION OF ENGINEERING, PROCUREMENT, AND CIVIL CONSTRUCTION INCLUDING POST TENSIONING, HEAVY LIFTING, CABLE STAY SYSTEM, GROUND ANCHOR & SOIL NAILING, MSE WALL, EXPANSION JOINTS, BEARINGS & PT-BARS, SEISMIC PROTECTION SYSTEM, REPAIR AND STRENGTHENING SOLUTIONS

Original cycle start date:	01-09-2021
Expiry Date of Previous Cycle:	NA
Certification / Recertification Audit date:	01-07-2021
Certification / Recertification cycle start date:	01-09-2021
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	31-08-2024

Certificate No.: ID0003993 Version: 1 Issue Date: 01-09-2021

Signed on behalf of BVCH SAS UK Branch

UKAS MANAGEMENT SYSTEMS 0008

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: Wisma 76 Building, 21st Floor, Jl. Let. Jend. S. Parman Kav.76, Slipi, Palmerah, Jakarta Barat 11410

To view certification regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call +62 21 5366 000

1/2

◀ **ISO 45001:2018**
The international standard occupational health and safety (OHS) management systems.

ISO 9001:2015 ▶
The international standard for quality management systems.


Bureau Veritas Certification

PT. FREYSSINET TOTAL TECHNOLOGY

METROPOLITAN TOWER, LANTAI 9 UNIT DE, JL. R.A. KARTINI KAV. 14 TB SIMATUPANG, KEC. CILANDAK, JAKARTA, INDONESIA

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ISO 9001:2015

Scope of certification

PROVISION OF ENGINEERING, PROCUREMENT, AND CIVIL CONSTRUCTION INCLUDING POST TENSIONING, HEAVY LIFTING, CABLE STAY SYSTEM, GROUND ANCHOR & SOIL NAILING, MSE WALL, EXPANSION JOINTS, BEARINGS & PT-BARS, SEISMIC PROTECTION SYSTEM, REPAIR AND STRENGTHENING SOLUTIONS

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SETTING THE WORLD'S BENCHMARK IN SPECIALIST CIVIL ENGINEERING FOR CONSTRUCTION AND REPAIR

FREYSSINET
SUSTAINABLE TECHNOLOGY

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