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WHERE RELIABILITY & INNOVATION CONNECT



G-ENVIRO

G-ENVIRO is a multinational leading telecommunications infrastructure firm in the Middle East and North Africa (MENA) Region.

With more than 1,000 experienced employees and several facilities & factories, G-ENVIRO is fully equipped to provide its customers with a wide range of products and services. Our products are a testimony of high quality, durability, and excellence in performance.

PRODUCTS:

- Green Field (GF) Decorative Structures
- Roof Top (RT) Decorative Structures
- Rapid Deployment Solutions
- Antenna Mounting Structures

SERVICES:

- Customized Engineering and Design Solutions
- End-to-End solutions including design, manufacturing, and engineering of civil works
- Site identification and acquisition and submission of building permits
- Installation, testing and commissioning of networks and systems for telecommunications
- Management and maintenance
- Trainings for customer's teams

CERTIFICATES

G-ENVIRO is certified in quality, safety, environment, and social responsibility from the International Organization for Standardization ISO.



CHAIRMAN SPEECH

G-ENVIRO's success is undoubtedly owed to its people. I am proud to be part of a such a large experienced and dedicated team that seeks innovation and quality of work.

It is through continues R&D and providing the latest trainings for our team, that we remain ahead in the global market.

In our firm, we seek superiority in every aspect; which led us to build two camouflage factories in Egypt and Saudi Arabia to ensure the quality of materials in meeting our standards.

We are constantly developing and expanding our facilities and capabilities.

G-ENVIRO's success has led the firm to grow over the years and expand to other other industrial and services sectors including metal processing, food & beverages market, agriculture , and the medical & healthcare sectors. Yet, the telecommunications field remains our prime filed of work and a great source of pride to our firm.

I can confidently say that G-ENVIRO 's team is always ready to take on complicated challenges and produce optimum quality products with a high capacity making us second to none.

Khaled Gad

SUCCESS PARTNERS



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TAWAL



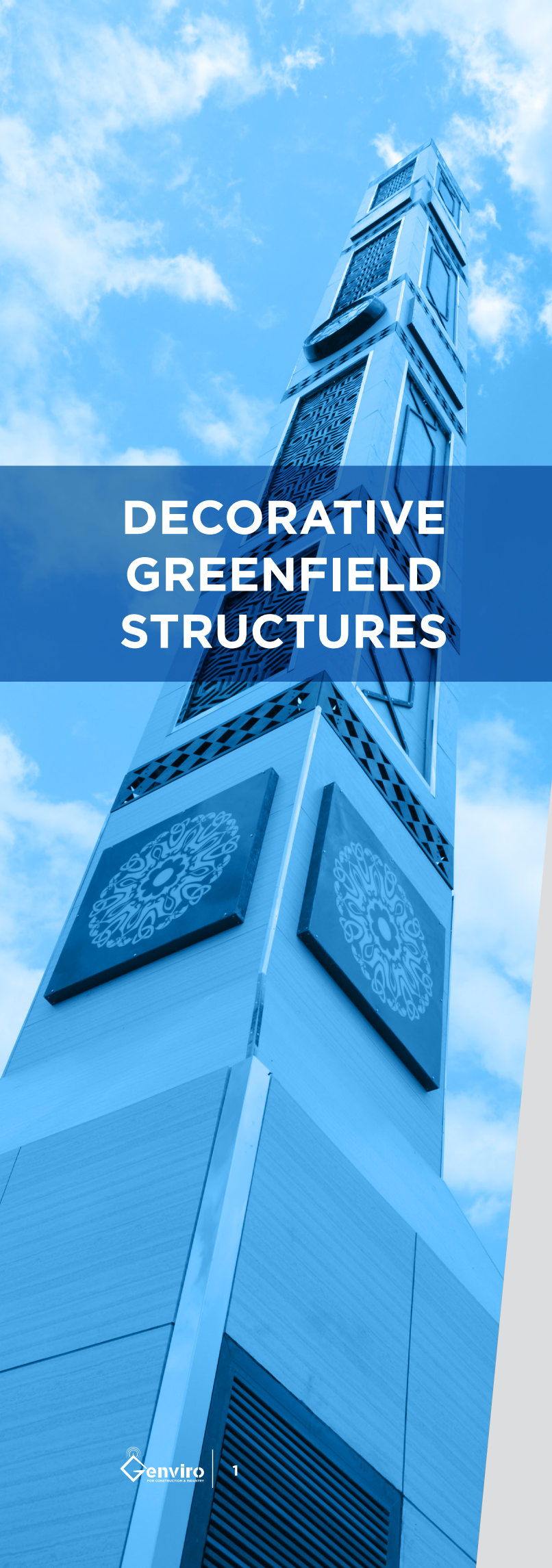
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DECORATIVE GREENFIELD STRUCTURES

G-ENVIRO takes a great pride in its wide variety of Decorative solutions that testify to our products' innovation, durability, and excellence. Our structures have redefined the landscape in several strategic locations in the Middle East and North Africa region. Through combining high-performance with a unique urban decorative shape, our products testify to our excellence in the market.

CUSTOMER TAILORED DESIGNS

G-ENVIRO provides customized designs for all decorative structures. Customers can request different patterns and colors for all cladding materials according to their desire.

MATERIALS AND CONSTRUCTION

All materials and construction procedures comply with the American standards and can be adjusted to comply with other standards as per customer's request. G-ENVIRO utilizes state-of-the-art Radio-Transparency certified cladding material ensuring wave propagation.

STRUCTURAL DESIGN

G-ENVIRO's structures are designed according to ANSI/TIA-222 latest standards for Antenna supporting structures. Our structures can be designed to a variety of Heights, Capacities, and Specifications all tailored to the customer's needs.



Holy Names Tower



Clock Tower



**Mosaic Tower and
Clock Mosaic Tower**



**Shareable Beautification
Monopole**



Beautification Monopole



Light Pole



**Palm Tree - Multiple
Operators**



**Palm Tree - Single and
Rapid**



Pharaonic Obelisk Tower



Islamic Pattern Tower



Spiral Tower



**Organic Tower and
Minaret Tower**

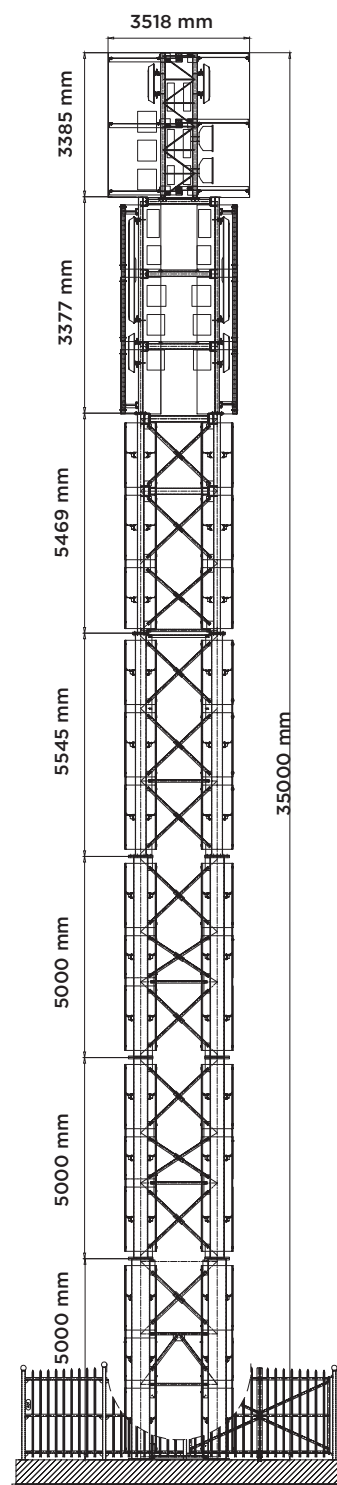
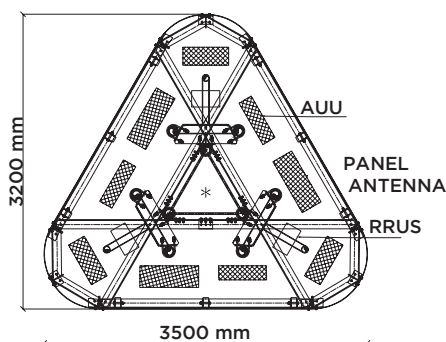
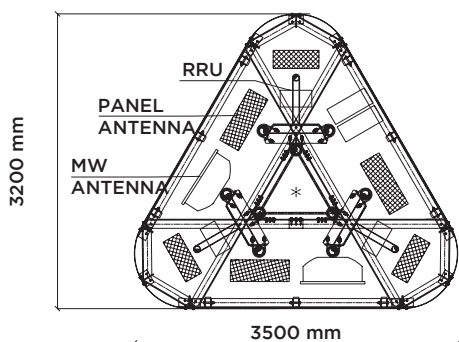
DECORATIVE GREENFIELD STRUCTURES

HOLY NAMES TOWER (HNT)

The Holy Names Tower (HNT) is one of G-ENVIRO's landmark products that combines high performance capacity with an elegant shape, complementing any surrounding landscape with an aesthetic view. The HNT's cladding varies in height, patterns, and colors to meet customer's needs and to match the surrounding environment.

TECHNICAL SPECIFICATIONS HNT

Structure Type	Camouflaged Triangular GF tower
Heights (m)	30 - 35
Foundation Type	Cast in-situ
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
LOADS	<ul style="list-style-type: none"> • 9 NOS. ANTENNA • 6 NOS. 5G ANTENNA • 6 MWS 0.6M • 60 RRUS
Operators	Single and Multiple Operators are available
Core	Anti-UV & nontoxic LDPE core
Façade	<ul style="list-style-type: none"> • Automatically illuminated Holy names or any other customer chosen pattern • Customer-tailored Patterns and shapes are available
Other details	Internal climbing ladder with a safety wire & lightning rod





DECORATIVE GREENFIELD STRUCTURES

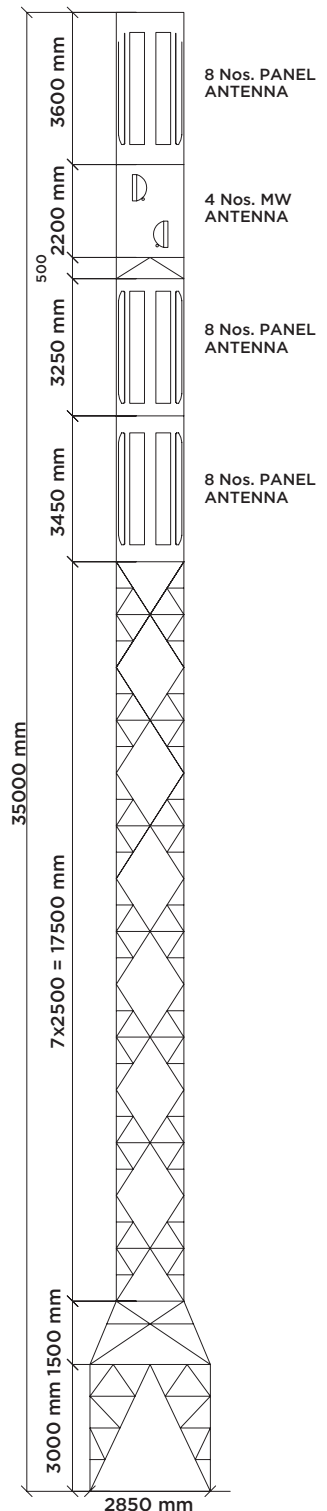
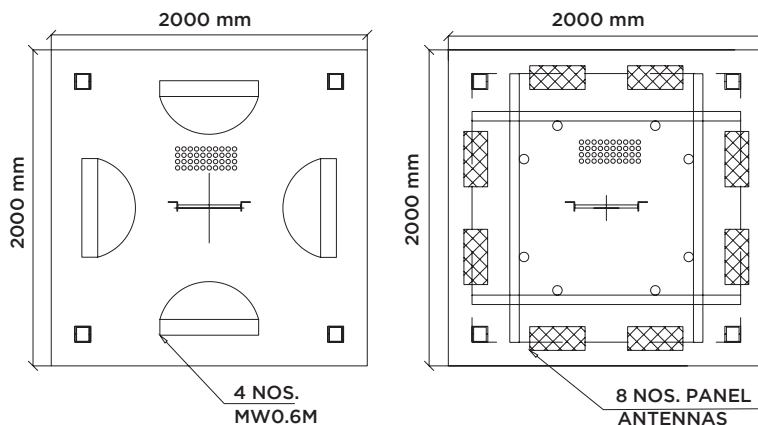
CLOCK TOWER - (CKT)

Clock Tower (CKT) is a modern-day camouflaged telecom tower that adds an attractive scenery to the surrounding area. CKT can be supplied with LCD screens for commercial use and advertising and comes in various cladding patterns and colors according to the customer's requirements.

TECHNICAL SPECIFICATIONS CKT

Structure Type	Camouflaged Rectangular GF tower
Heights	Up to 35m
Foundation Type	Cast in-situ
Loads	<ul style="list-style-type: none"> • 24 nos.GSM antenna • 4 nos. 0.6m MW dish
Operators	Single and Multiple Operators are available
Façade	<ul style="list-style-type: none"> • Natural stone pattern • Customer-tailored Patterns and shapes are available
Clock Details	<ul style="list-style-type: none"> • Fire resistant and extreme weather tolerant • High accuracy internal time chip • Daylight saving adjustment • LED back illumination
Other Details	<ul style="list-style-type: none"> • Internal climbing ladder with a safety wire & lightning rod • Anti UV Pigments

Antenna Arrangement





DECORATIVE GREENFIELD STRUCTURES

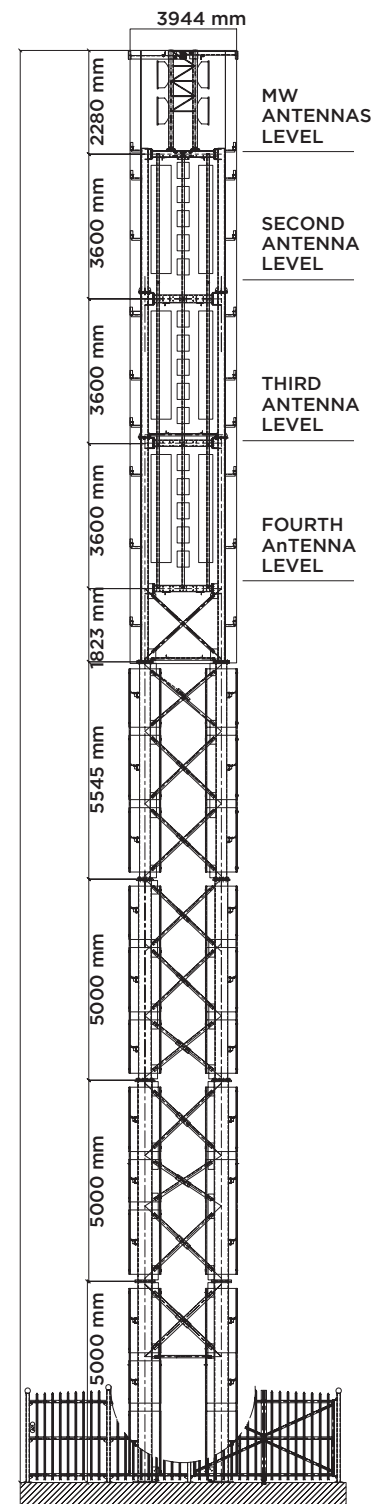
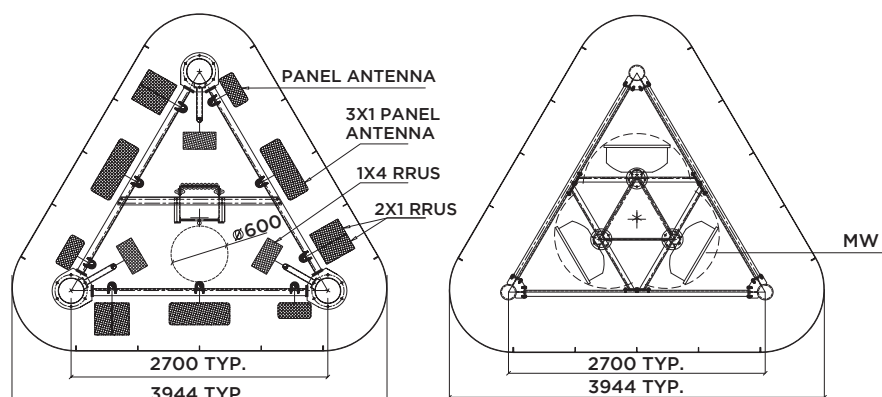
MOSAIC TOWER / CLOCK MOSAIC TOWER

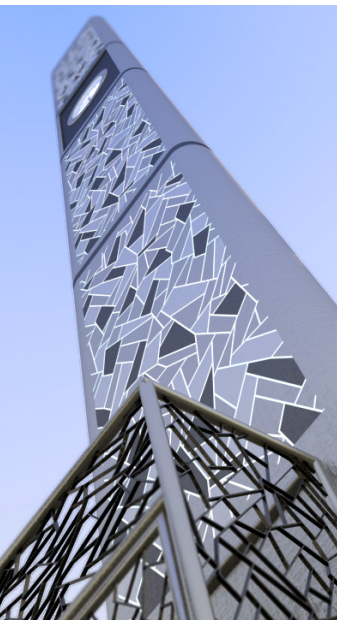
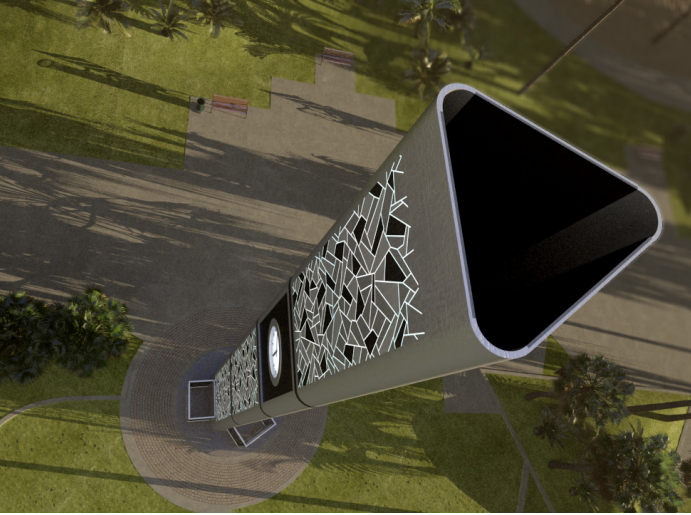
Mosaic Tower (MT)/ CLOCK MOSAIC TOWER (CMT):

Mosaic Tower (MT)/CLOCK MOSAIC TOWER (CMT) is a distinct camouflaged telecom tower that adds an attractive modern scenery to the surrounding area. MT/CMT comes in a variety of height and can be supplied with LCD screens for commercial use and advertising. The structure comes in various cladding patterns and colors according to the customer's requirements.

TECHNICAL SPECIFICATIONS MT / CMT

Structure Type	Camouflaged GF tower
Heights (m)	25m - 30m - 35m
Foundation Type	Cast in-situ
Loads	<ul style="list-style-type: none"> • 9 No. PENTA-BAND ANTENNAS • 9 No. 26 port ANTENNAS • 4 Nos. 0.6m MW dish • 81 RRUS
Operators	Single and Multiple Operators are available
Façade	<ul style="list-style-type: none"> • Crystal embossed organic panels colored with anti-UV pigments • Customer-tailored Patterns and shapes are available
Clock Details (optional)	<ul style="list-style-type: none"> • High accuracy internal time chip • Daylight saving adjustment • Back LED illumination





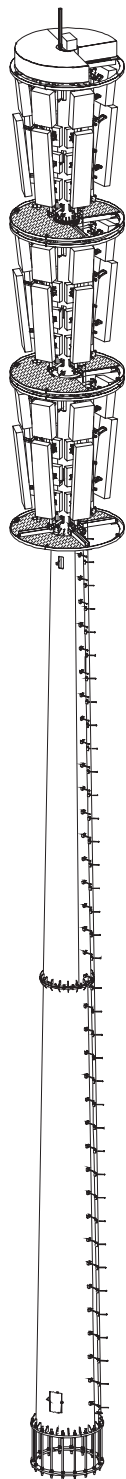
DECORATIVE GREENFIELD STRUCTURES

SHAREABLE BEAUTIFICATION MONOPOLE

The Beautification Monopole is a stylish high-functioning structure that can be adapted to match any surrounding. The Beautification Monopole comes in different heights and capacities and its camouflage can be customized according to the customer's needs.

TECHNICAL SPECIFICATIONS - SBM

Structure Type	Camouflaged GF pole
Heights (m)	35m
Foundation Type	Cast-in-situ
Loads	<ul style="list-style-type: none">• 27 4G- ANTENNAS• 27 5G- ANTENNAS• 54 RRUs• Tank
Operators	THREE Operators
Obstruction Light	According to ICAO Requirement
Core	Adjustable in height according to customer requirements
Façade	<ul style="list-style-type: none">• Customer-tailored Patterns and shapes are available• All Radio Antennas and microwave antennas are enclosed within the decorative section
Other Details	Step Bolt with a safety wire & lightning rod



3D - WITH CAMOUFLAGE



3D - WITHOUT CAMOUFLAGE

3D - WITHOUT CAMOUFLAGE



DECORATIVE GREENFIELD STRUCTURES

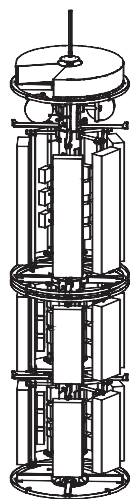
BEAUTIFICATION MONOPOLE

TECHNICAL SPECIFICATIONS - BM

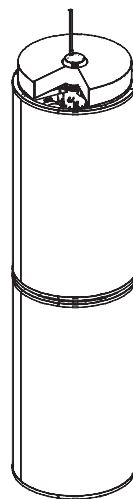
Structure Type	Camouflaged GF pole
Heights (m)	30m
Foundation Type	Pre-Cast Foundation
Loads	<ul style="list-style-type: none"> • 18 PANEL ANTENNAS • 12 TRIPLEXERS for ANTENNAS • 4 MWs 0.6m DIA.
Operators	Two Operators
Core	Adjustable in height according to customer requirements
Façade	<ul style="list-style-type: none"> • Customer-tailored Patterns and shapes are available • All Radio Antennas and microwave antennas are enclosed within the decorative section
Other Details	Step Bolt with a safety wire & lightning rod

KEY FEATURES

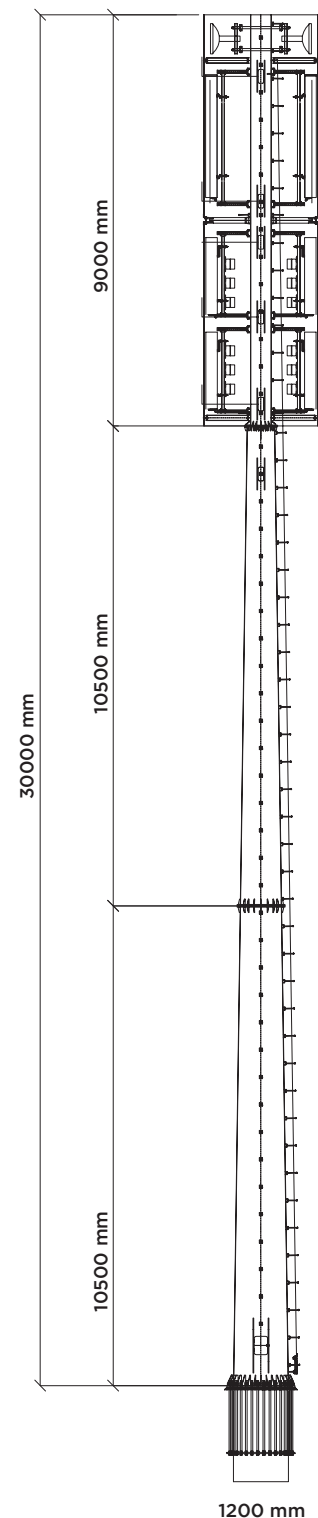
- Customer-Tailored cladding.
- Capacity of up to TWO operators.
- Easy installation and rapid deployment.



STEEL



WITH CLADDING





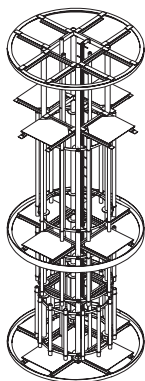
DECORATIVE GREENFIELD STRUCTURES

LIGHT POLE

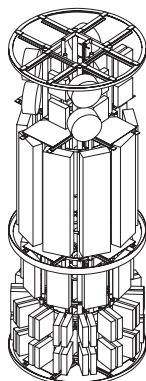
Light Pole (LP) is a modern camouflaged telecom structure that adds a fashionable feel to the area where it is installed. G-ENVIRO offers two options of Light Poles: Single operator LP and sharable LP. Our Light Poles can be customized in heights, patterns, and colors.

TECHNICAL SPECIFICATIONS - LP single Operator / LP Multiple Operator

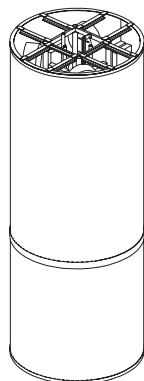
	LP single Operator	LP Multiple Operato
Structure Type	Camouflaged GF pole	
Heights (m)	25m - 30m - 35m	25m UP TO 40m
Foundation Type	Cast-in-situ	
Design Wind Speed	160 km/hr.	
Operational Wind Speed	120 km/hr.	
Loads	<ul style="list-style-type: none"> • 9 30-PORT ANTENNAS • 9 5G RF ANTENNA • 60 RRUS • 6 MWs 0.6m DIA. 	<ul style="list-style-type: none"> • 9 30-PORT ANTENNAS • 9 5G RF ANTENNA • 60 RRUS • 6 MWs 0.6m DIA.
Operators	Single Operator	(Up to three Operators)
Obstruction Light	According to ICAO Requirement	
Core	Shafts adjustable in height according to customer requirements	
Façade	<ul style="list-style-type: none"> • Customer-tailored Patterns and shapes are available • All Radio Antennas and microwave antennas are enclosed within the decorative section 	
Other Details	Internal climbing ladder with a safety wire & lightning rod	



STEEL



WITH EQUIPMENT



WITH CLADDING



DECORATIVE GREENFIELD STRUCTURES

PALM TREE - MULTIPLE OPERATORS

G-ENVIRO's Palm Tree is a high-performance decorative solution specially designed to reduce the visual impact on the environment..

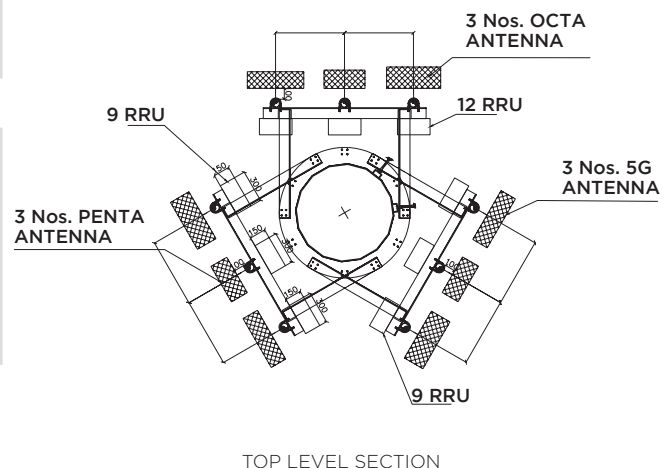
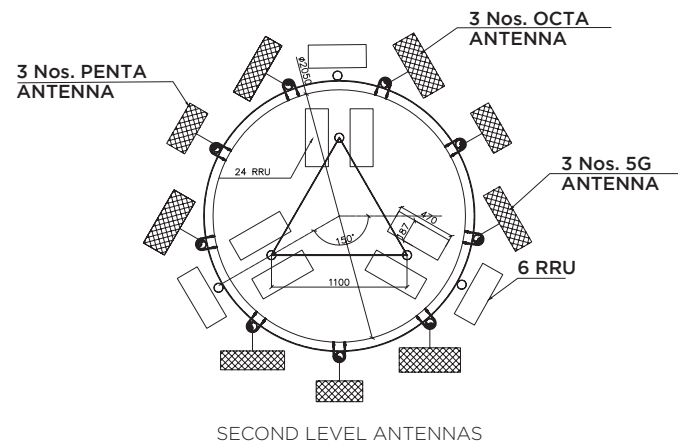
Our PT provide a high range of flexibility in heights, specifications and accessory components. G-ENVIRO produce three types of Palm tree structures: Single PT, Sharable PT, and Rapid Deployment PT.

Foliage Characteristics:

G-ENVIRO utilizes premium materials in the PT foliage. Our PT can withstand severe weather conditions and is well-known for its natural look. The Number of foliage branches can be modified according to customer's requirements.

TECHNICAL SPECIFICATIONS - PT Multiple Operators

Structure Type	Exposed GF pole
Heights (m)	Up to 45m
Foundation Type	Cast in-situ
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none"> • 6 OCTA ANTENNA • 6 PENTA ANTENNAS • 6 5G ANTENNAS • 4 MWs Antenna 0.6m DIA.
Obstruction Light	According to ICAO Requirement
Core	Decorative Camouflaged Pole
Foliage	<ul style="list-style-type: none"> • Decorative 52 Palm branches distributed for camouflaging antennas • Colored Pole and Branches to match a real palm tree appearanc
Other Details	Step Bolts with Safety wire & lightning Rod





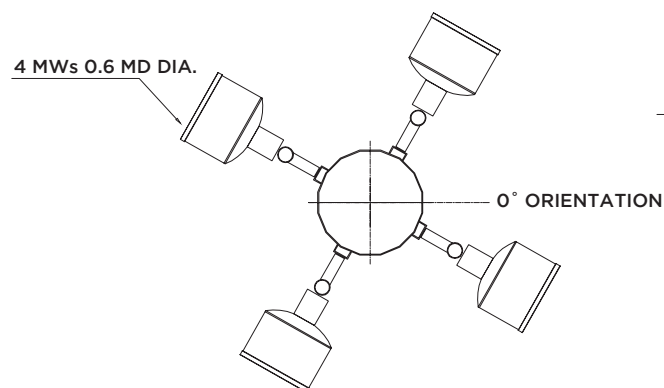
DECORATIVE GREENFIELD STRUCTURES

PALM TREE - SINGLE / RAPID

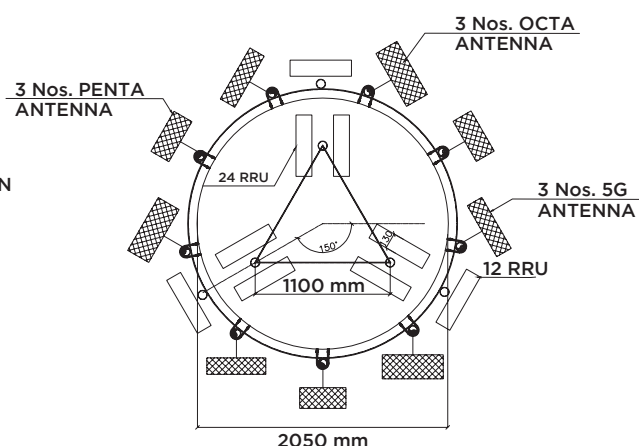
TECHNICAL SPECIFICATIONS - PT Single Operator / Rapid Deployment Palm

	PT Single Operator	Rapid Deployment Palm
Structure Type	GF pole	
Heights (m)	20m UP TO 45m	20m UP TO 40m
Design Wind Speed	160 km / hr.	145 km/hr.
Operational Wind Speed	120 km / hr.	100 km / hr.
Loads	<ul style="list-style-type: none"> • 3 Octa Antennas • 3 Penta Antennas • 3 5G Antennas • 4 MWS 0.6m DIA. • 30 RRUs 	<ul style="list-style-type: none"> • 3 NOS. 30 PORT ANTENNA • 3 NOS. 5G-AIR ANTENNA • 2 MW NOS. 0.6 DIA. • 6 NOS. RRU
Obstruction Light	According to ICAO Requirement	
Cabinet	No Cabinet	Shelter/ODU
Foliage	<ul style="list-style-type: none"> • Decorative 26 Palm branches distributed for camouflaging antennas • Colored Pole and Branches to match a real palm tree appearance 	
Other Details	Step Bolts with Safety wire & lightning Rod	

Antenna Arrangement:



ARRANGEMENT OF MWs AT LEVEL TOP - 6m





DECORATIVE GREENFIELD STRUCTURES

PHARAONIC OBELISK TOWER - (POT)

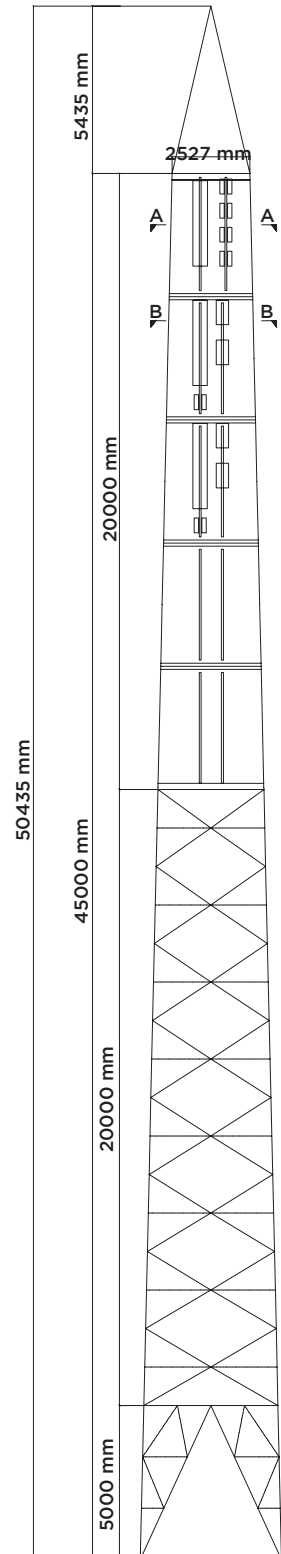
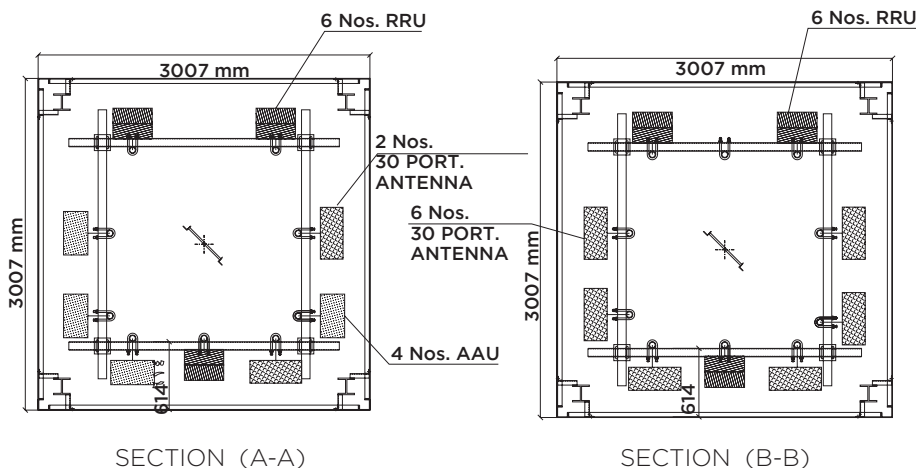
Pharaonic Obelisk Tower (POT) is designed to convey an authentic ancient Egyptian sensation, as the shape and aspect ratio are inspired from real famous Egyptian monuments.

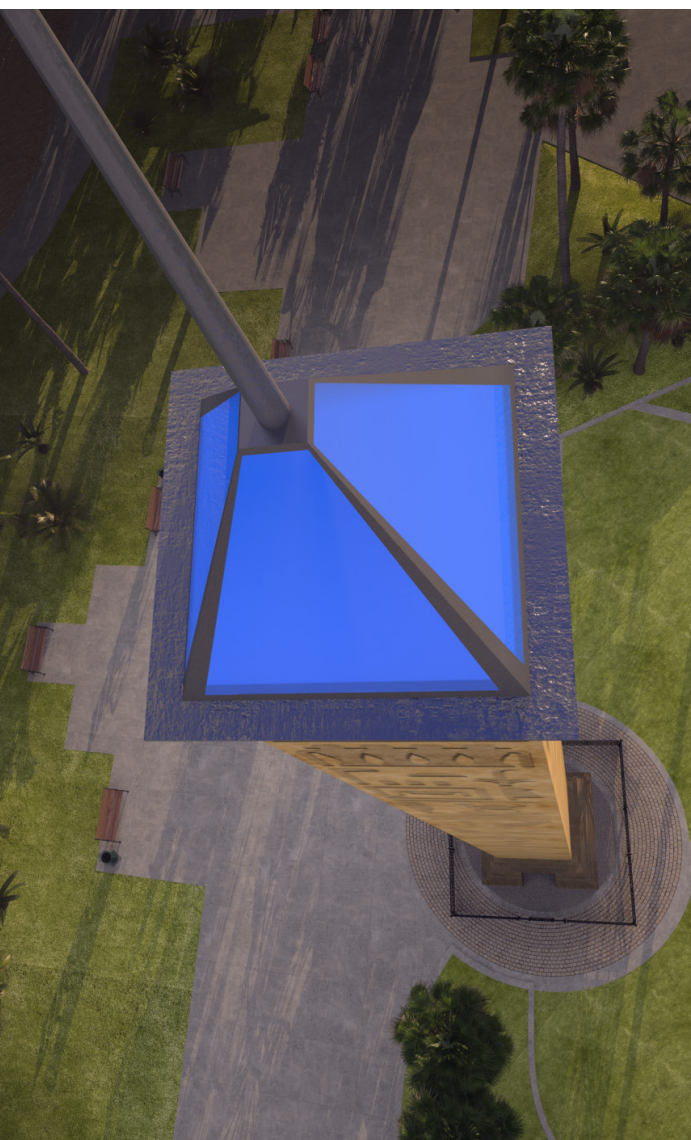
TECHNICAL SPECIFICATIONS - POT

Structure Type	Camouflaged GF tower
Heights (m)	35 - 40 - 45 - 50
Foundation Type	Cast in-situ
Loads	<ul style="list-style-type: none"> 8 NOS. 30 PORT ANTENNA 16 NOS. AAU
Operators	Single and Multiple Operators are available
Façade	Customer-tailored Patterns and shapes are available

KEY FEATURES

- Customer-Tailored cladding.
- Capacity of up to THREE operators.
- Easy installation and rapid deployment.





DECORATIVE GREENFIELD STRUCTURES

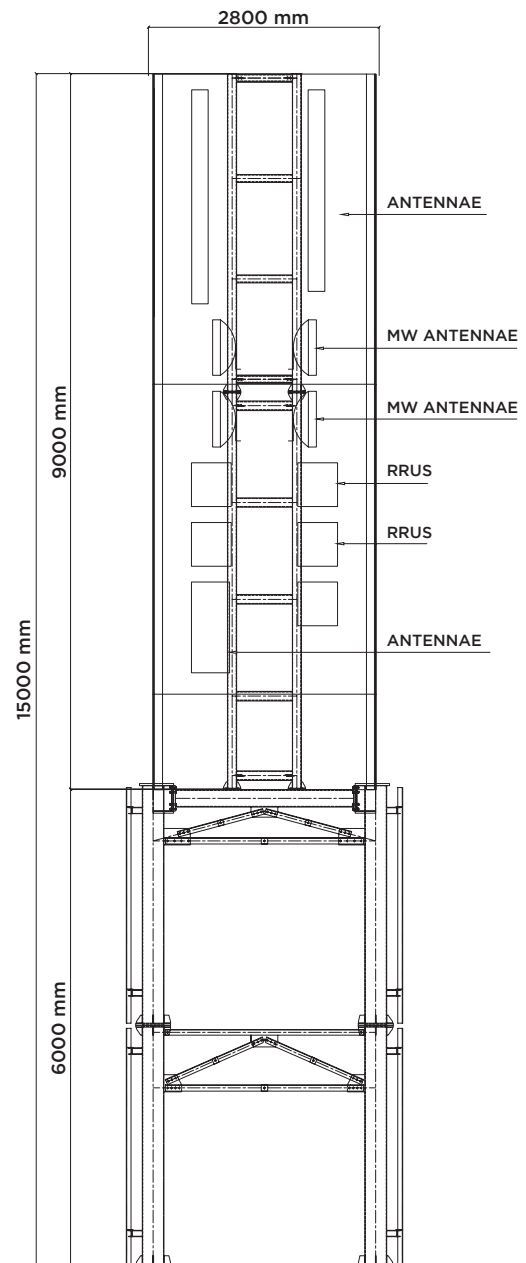
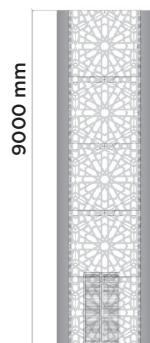
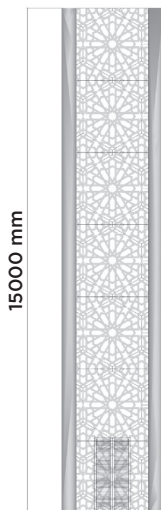
ISLAMIC PATTERN TOWER (IPT)

Inspired from the beauty of Islamic Patterns and culture, G-ENVIRO innovated this unique structure. The Islamic Pattern tower (IPT) is a high functioning sophisticated structure that catches the eye wherever it is.

TECHNICAL SPECIFICATIONS - IPT

Structure Type	Camouflaged GF tower
Heights (m)	9m - 12m - 15m
Foundation Type	Cast in-situ
Loads	<ul style="list-style-type: none"> • 3 PENTA-BAND ANTENNAS • 3 OCTA-BAND ANTENNAS • 3 5G RF ANTENNA • 4 MWs 0.6m DIA. • 30 RRUS
Operators	Single and Multiple Operators are available
Façade	<ul style="list-style-type: none"> • Grooved Islamic Pattern • Customer-tailored Patterns and shapes are available
Other Details	Internal climbing ladder with a safety wire & lightning rod

Available Heights:





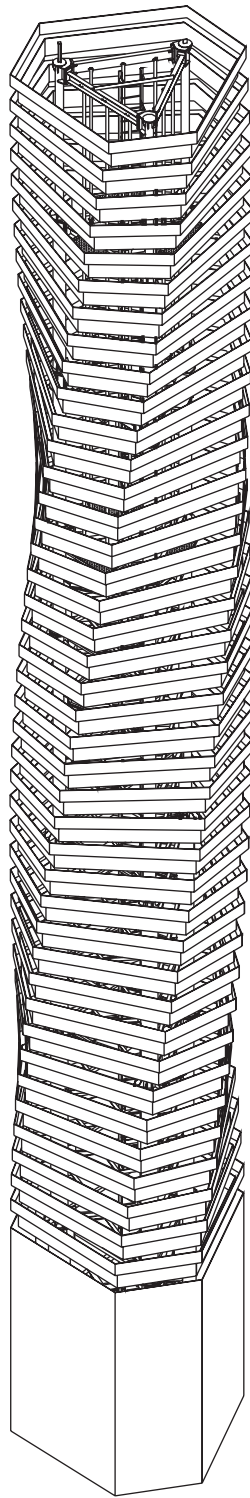
DECORATIVE GREENFIELD STRUCTURES

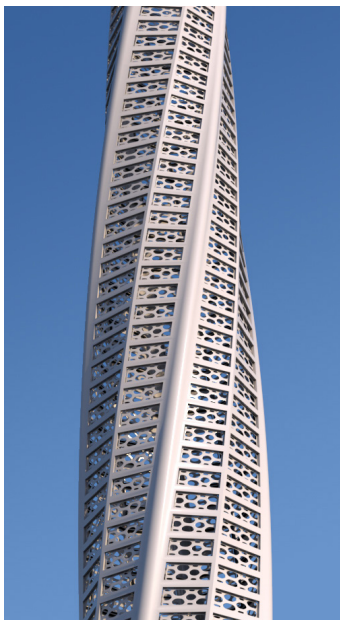
SPIRAL TOWER

Spiral Tower is G-ENVIRO's latest innovations. This structure has a unique shape like no other. The spiral Tower is developed to combine an elegant shape with high performance. The Spiral Tower utilizes the latest technologies in camouflage material provided by illumination, which makes our structure a joy to look at. Spiral tower can be customized in heights and colors according to the customer's desire.

TECHNICAL SPECIFICATIONS - Spiral Tower

Structure Type	Camouflaged tower
Heights (m)	Up to 50 m
Foundation Type	Cast in-situ
Loads	<ul style="list-style-type: none">• 9 Nos. 26-port ANTENNAS• 9 Nos. PENTA ANTENNAS• 1 MWS 0.6M• 80 RRUs
Core	Camouflaged Triangular structure
Façade	<ul style="list-style-type: none">• Customer-tailored Patterns and shapes are available• Capacity of up to THREE operators



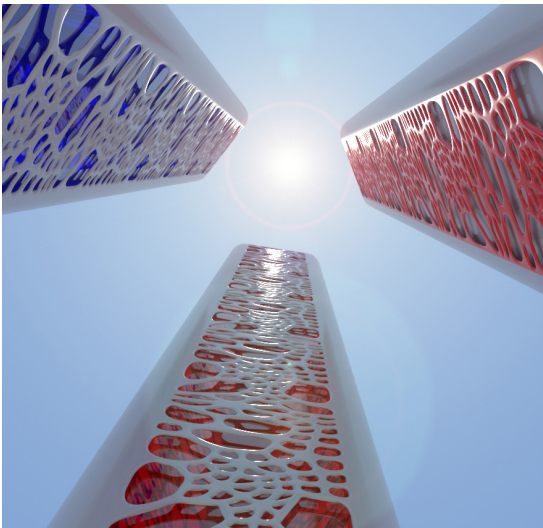
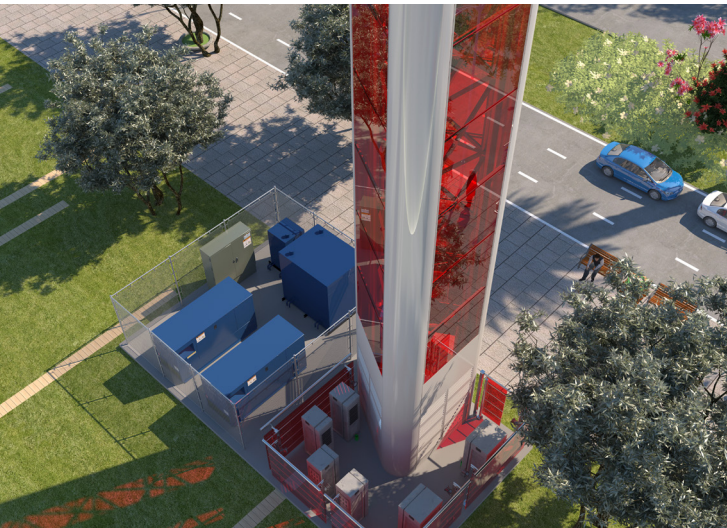


DECORATIVE GREENFIELD STRUCTURES

ORGANIC TOWER

TECHNICAL SPECIFICATIONS - Organic Tower

Structure Type	Camouflaged tower
Heights (m)	Up to 45 m
Foundation Type	Cast in situ
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none">• 9 Nos. 26-port ANTENNAS• 9 Nos. PENTA ANTENNAS• 1 MWS 0.6M• 80 RRUs
Obstruction Light	According to ICAO Requirement
Core	Camouflaged Triangular structure
Façade	Customer-tailored Patterns and shapes are available
Other Details	Internal climbing ladder with a safety wire & lightning rod



DECORATIVE GREENFIELD STRUCTURES


MINARET TOWER

Inspired from the Islamic culture, G-ENVIRO innovated this structure that takes the shape of a Minaret. The Minaret Tower is a landmark structure that enriches its surroundings. This structure comes in variety of camouflage patterns and colors according to the customer's requirements.

TECHNICAL SPECIFICATIONS - MINARET TOWER

Structure Type	Camouflaged tower
Heights (m)	35 (other height are available by request)
Foundation Type	Cast in situ
Loads	<ul style="list-style-type: none">• 24 GSM ANTENNAS• 4 MWS 0.6M
Core	Camouflaged Rectangular structure
Façade	<ul style="list-style-type: none">• Main decorative Minaret• Customer-tailored Patterns and shapes are available





DECORATIVE ROOF TOP STRUCTURES

G-ENVIRO's Decorative Roof Top structures are the perfect solution for an Urban site.

Our Products come in a variety of shapes and capacities to satisfy all customer's requirements.

CUSTOMER TAILORED DESIGNS

G-ENVIRO provides customized designs for all decorative structures. Customers can request different patterns and colors for all cladding materials according to their desire.

MATERIALS AND CONSTRUCTION

All materials and construction procedures comply with the American standards and can be adjusted to comply with other standards as per customer's request. G-ENVIRO utilizes state-of-the-art Radio-Transparency certified cladding material ensuring wave propagation.

STRUCTURAL DESIGN

G-ENVIRO's structures are designed according to ANSI/TIA-222 latest standards for Antenna supporting structures. Our structures can be designed to a variety of Heights, Capacities, and Specifications all tailored to the customer's needs.



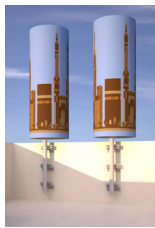
Sphere Rooftop Tower - SRT



Sign Board Tower - SBT



Rapid Modern Pole - RMP



Wall Mount Light Pole



Flag Pole and Water Tank

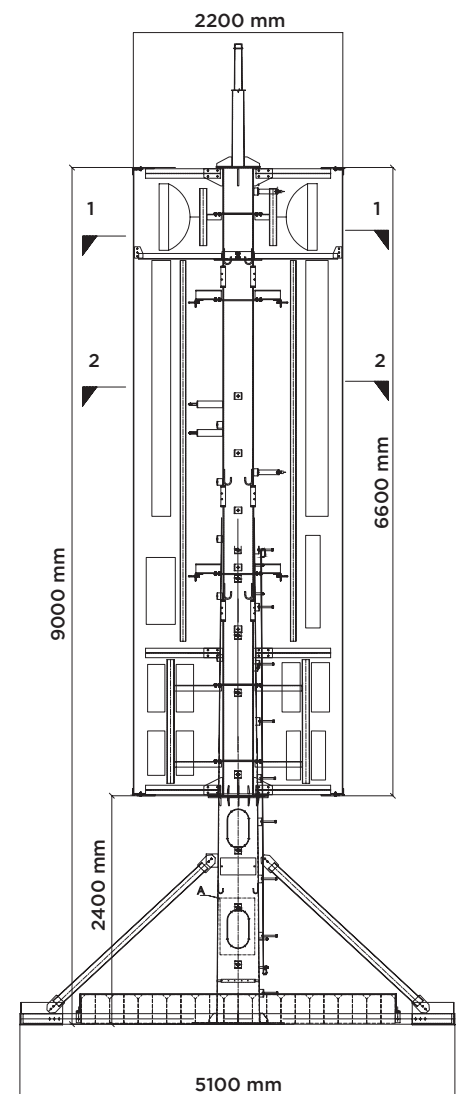
DECORATIVE ROOF TOP STRUCTURES

SPHERE ROOF-TOP (SRT)

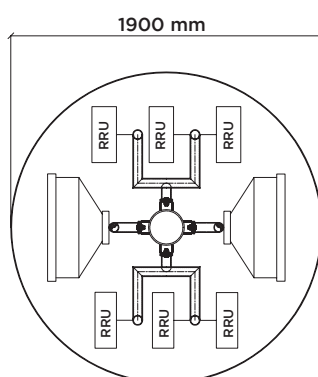
G-enviro's Sphere Roof Top (SRT) is a great solution for the urban areas where GSM sites land areas are hard to obtain and compromise a sensitive issue. The SRT structure combines functionality with an element of uniqueness, making it a one-of-a-kind landmark.

TECHNICAL SPECIFICATIONS - SRT

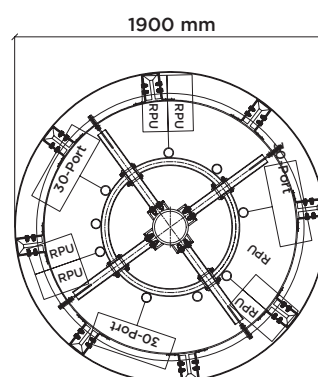
Structure Type	Camouflaged Four-Strut roof top pole
Heights (m)	9m (UP to 15m Can be supplied)
Foundation Type	Non-penetration base
Loads	<ul style="list-style-type: none"> • 6 BAND ANTENNAS • 3 AAU ANTENNAS • 4 MWS 0.6M • 30 RRUS • Circular camouflage 2.2 m diameter 6.6 m height.
Core	Pole with four-strut system
Façade	<ul style="list-style-type: none"> • Main decorative Patterned sphere • Customer-tailored Patterns and shapes are available • Lower decorative sphere to cover strut connection
Other details	Step bolts with Safety Wire & Lightening Rod



Antenna Arrangement



SECTION (1-1)



SECTION (2-2)

Key Features:

- Customer-Tailored cladding
- Capacity of one operator
- Easy installation and rapid deployment



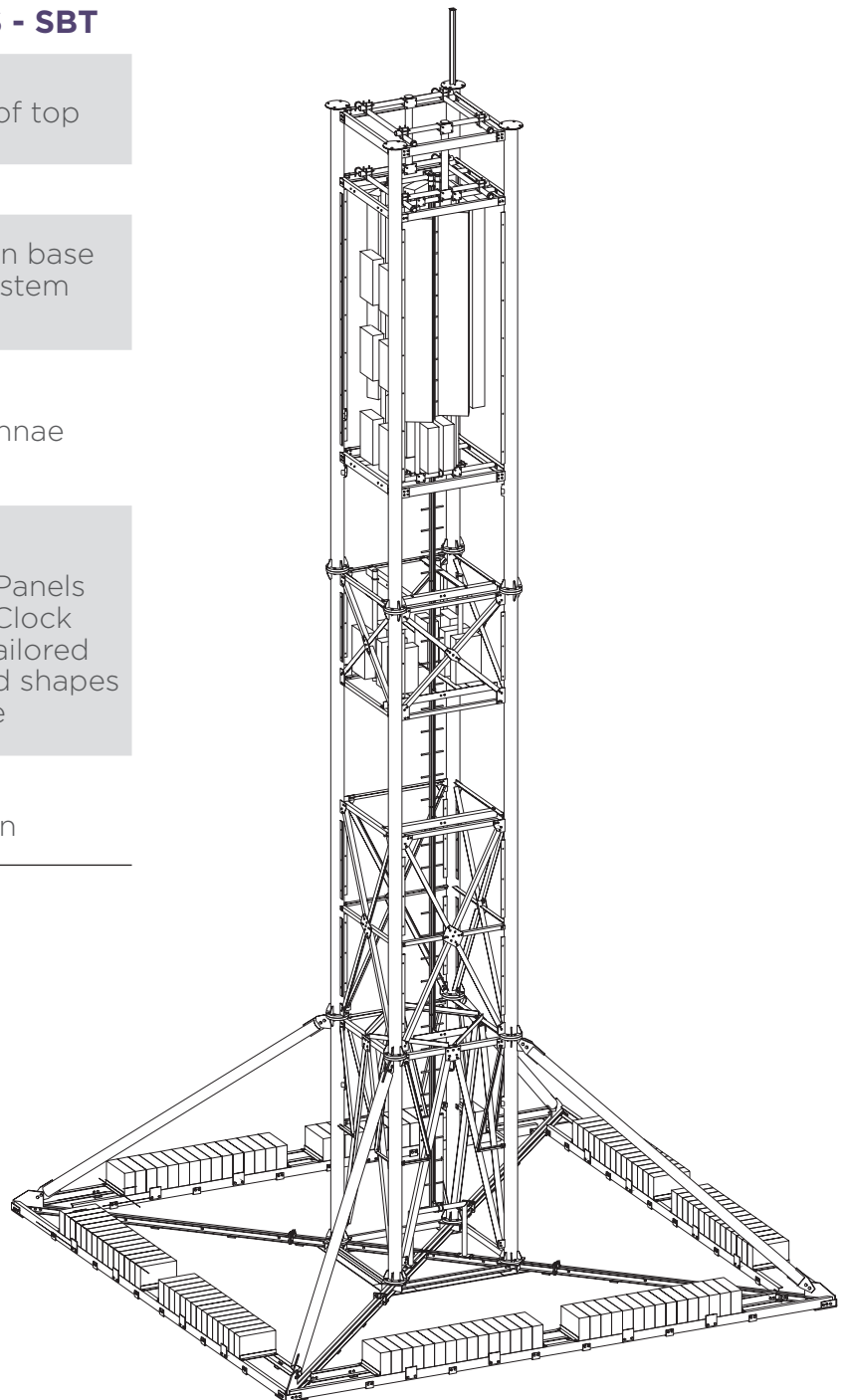
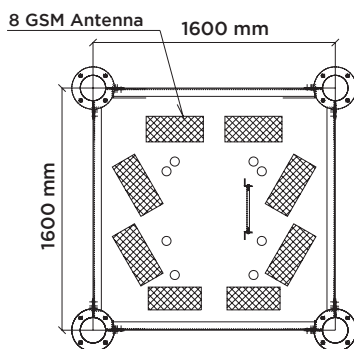
DECORATIVE ROOF TOP STRUCTURES

SIGN BOARD TOWER (SBT)

The Sign Board Tower (SBT) is G-ENVIRO's solution to minimizing the environmental impact of antenna-supporting structures especially in modern crowded cities. SBT structure comes with a clock giving it a modern innovative touch.

TECHNICAL SPECIFICATIONS - SBT

Structure Type	Camouflaged Rectangular roof top tower
Heights (m)	9 - 12 - 15
Foundation Type	Non-penetration base (Penetrating system available)
Loads	<ul style="list-style-type: none">• 2 MW 0.6m• 6 GSM antennae• 18 RRU
Façade	<ul style="list-style-type: none">• Decorative Composite Panels• Decorative Clock• Customer-tailored Patterns and shapes are available
Clock Details	<ul style="list-style-type: none">• Smart clock• GPS function





TECHNICAL SPECIFICATIONS - RMP

Structure Type	Rapid Deployment Pole
Heights (m)	7m - 9m - 15m - 18m
Design Wind Speed	120 km/hr.
Operational Wind Speed	120 km/hr.
Façade	<ul style="list-style-type: none"> • 3 GSM Antenna • 3 MW 0.6M DIA
Operators	One Operator



DECORATIVE ROOF TOP STRUCTURES

WALL MOUNT LIGHT POLE

The Wall Mount Light Pole is G-enviro's solution to minimizing the environmental impact of antenna-supporting structures especially in modern crowded cities, which make it perfect for cities and advertising purposes.

TECHNICAL SPECIFICATIONS - WM Light Pole

Structure Type	Camouflaged roof top wall mount pole
Heights (m)	2m - 4m - 6m
Foundation Type	Penetrating system
Loads	<ul style="list-style-type: none">• 1 GSM 12-PORT• 1 MW 0.6M DIA• 2 RF MODULE
Core	Pole with Wall Mount system
Façade	<ul style="list-style-type: none">• Flag at the Top of the structure• Decorative Camouflage to house Antennas
Other details	Step bolts with Safety Wire & Lightning Rod



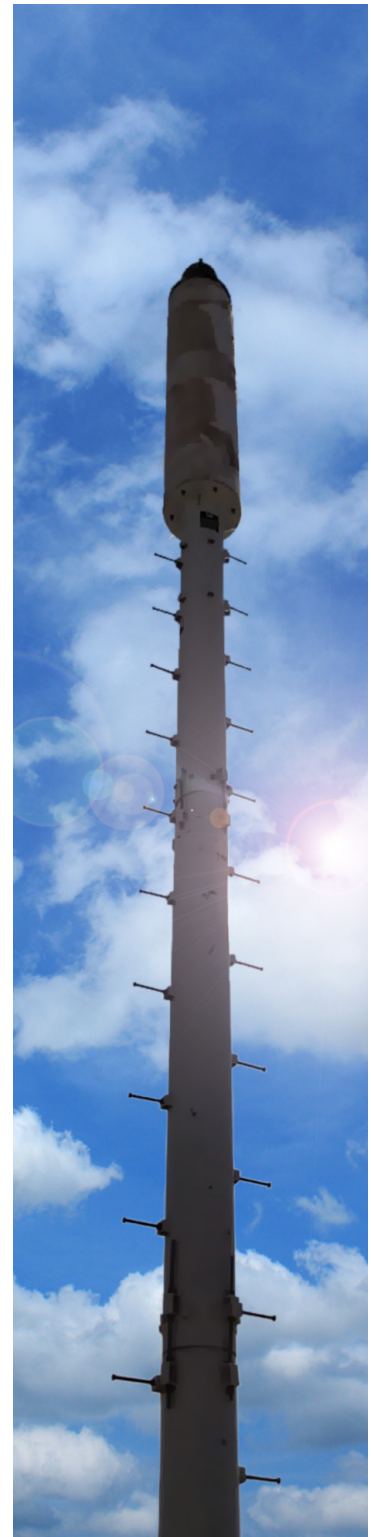
DECORATIVE ROOF TOP STRUCTURES

FLAG POLE (FP)

The Flag Pole (FP) is G-enviro's solution to minimizing the environmental impact of antenna-supporting structures especially in modern crowded cities. FP structure are designed to support a flag, which make it perfect for cities and advertising purposes.

TECHNICAL SPECIFICATIONS - FP

Structure Type	Camouflaged roof top pole
Heights (m)	9m - 12m - 15m
Foundation Type	Non-penetration base
Loads	<ul style="list-style-type: none">• 1 GSM 12-PORT• 2 MW 0.6M DIA• 2 RF MODULE .
Core	Pole & Two-strut system
Façade	Flag at the Top of the structure Decorative Shape to house Antennas
Other details	Step bolts with Safety Wire & Lightening Rod



DECORATIVE ROOF TOP STRUCTURES

WATER TANK (WT)

The Water Tank structure is a modern camouflaged solution that suits Urban environment. G-ENVIRO's WT is a high-capacity structure that comes in a variety of heights and camouflage shapes satisfying customers' requirements.

TECHNICAL SPECIFICATIONS - WT

Structure Type	Camouflaged roof top tower
Heights (m)	9m - 12m - 15m
Loads	<ul style="list-style-type: none">• 3 NO. GSM ANTENNAE• 6 NO. RRUs• 1 MWs 0.6M DIA.• CIRCULAR TANK 2.5 DIA. X 4.0M height
Core	Rectangular structure with top cylindrical cladding
Façade	<ul style="list-style-type: none">• Top Decorative Cylindrical cladding resembling a water tank• Antennas are housed inside the cladding• Customer-tailored Patterns and colors are available
Other details	Internal climbing ladder with a safety wire & lightning rod





RAPID DEPLOYMENT SOLUTIONS

G-ENVIRO's Rapid Deployment Solutions are a testimony to our engineering capabilities in producing efficient structures that can be deployed and ready for operations in a very competitive time frame.

MATERIALS AND CONSTRUCTION

All materials and construction procedures comply with the American standards and can be adjusted to comply with other standards as per customer's request.

STRUCTURAL DESIGN

G-ENVIRO's structures are designed according to ANSI/TIA-222 latest standards for Antenna supporting structures. Our structures can be designed to a variety of Heights, Capacities, and Specifications all tailored to the customer's needs.

Cell On Wheels – COW

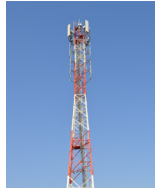


Heavy Duty COW



Light / Medium (COW)

Ground Rapid Deployment – GRD



Guyed GRD



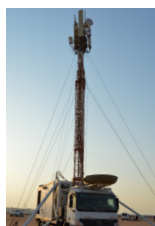
Self-Support GRD



Rapid Deployment Solution - RDS



Rooftop Rapid Deployment Unit - RRD



Rapid Deployment Vehicle - RDV

RAPID DEPLOYMENT SOLUTIONS

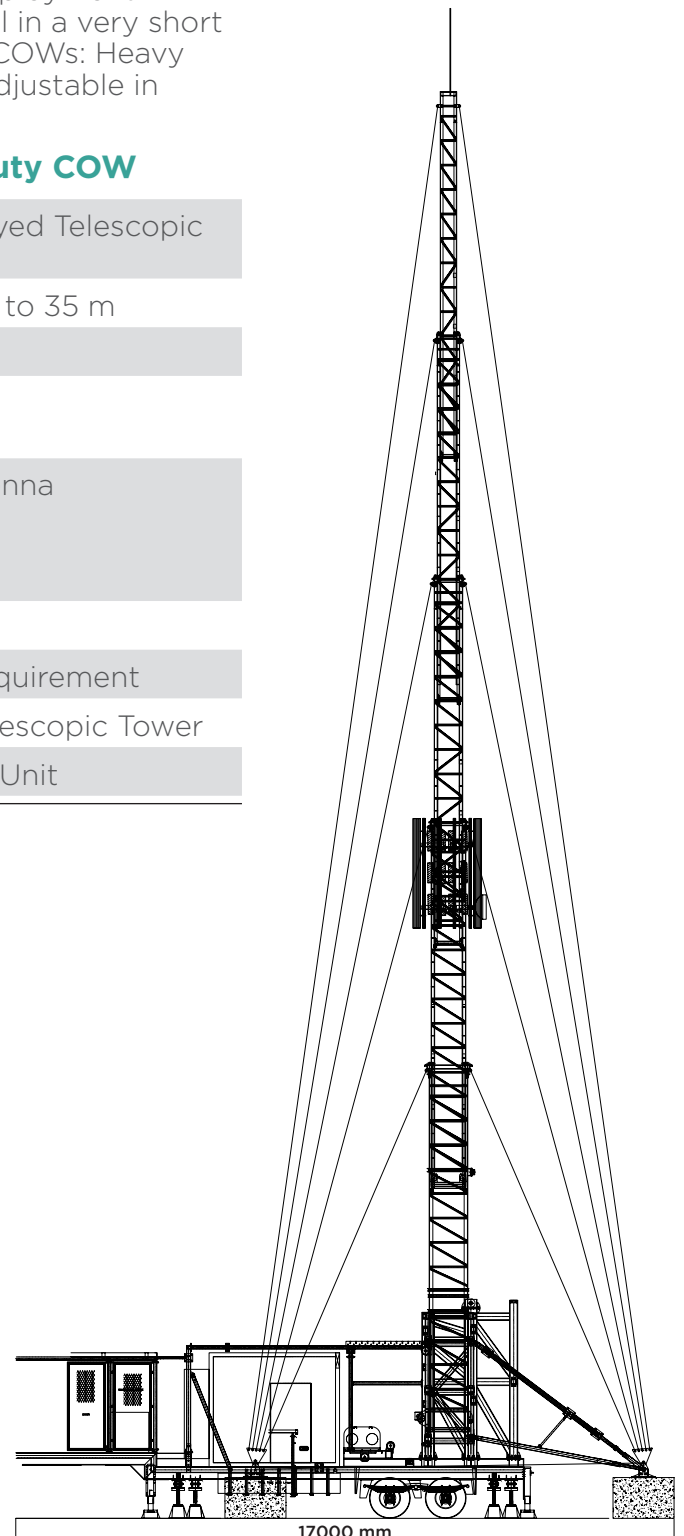
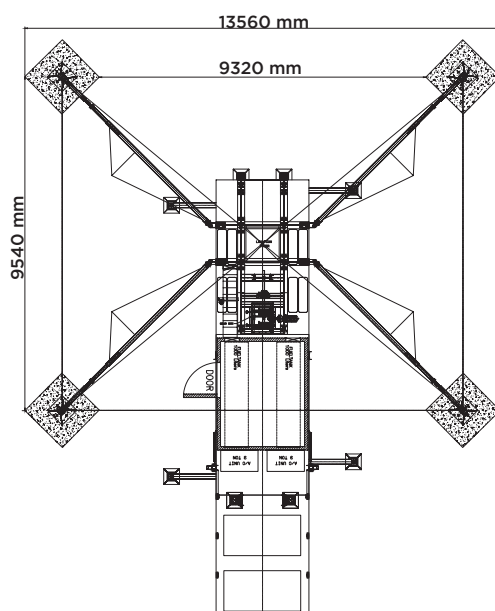
CELL ON WHEEL - HEAVY DUTY COW

Our Cell on Wheels COW product are rapid deployment solutions that can be deployed and operational in a very short time. G-ENVIRO offers three variations of the COWs: Heavy Duty COW, Medium COW, and Light Cow, all adjustable in heights.

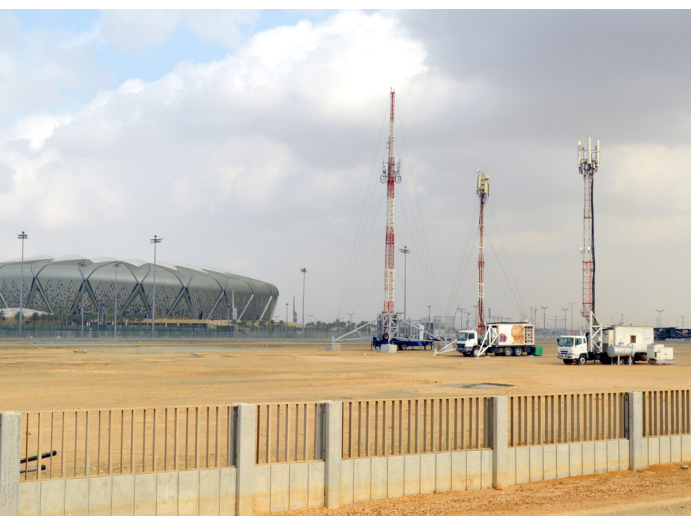
TECHNICAL SPECIFICATIONS - Heavy Duty COW

Structure Type	Rapid Deployment Guyed Telescopic tower
Heights (m)	Adjustable Heights Up to 35 m
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none"> • 6 NO. 30-port Antenna • 8 MWs 0.6M DIA. • 6 Air Antenna • 48 RRUs
Operators	Two operators
Obstruction Light	According to ICAO Requirement
Core	Rectangular Guyed Telescopic Tower
Cabinet	Outdoor Unit / Indoor Unit

PLAN VIEW



SIDE VIEW

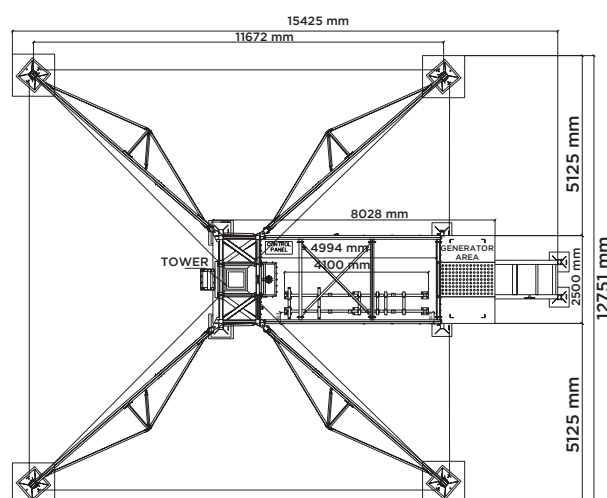


RAPID DEPLOYMENT SOLUTIONS

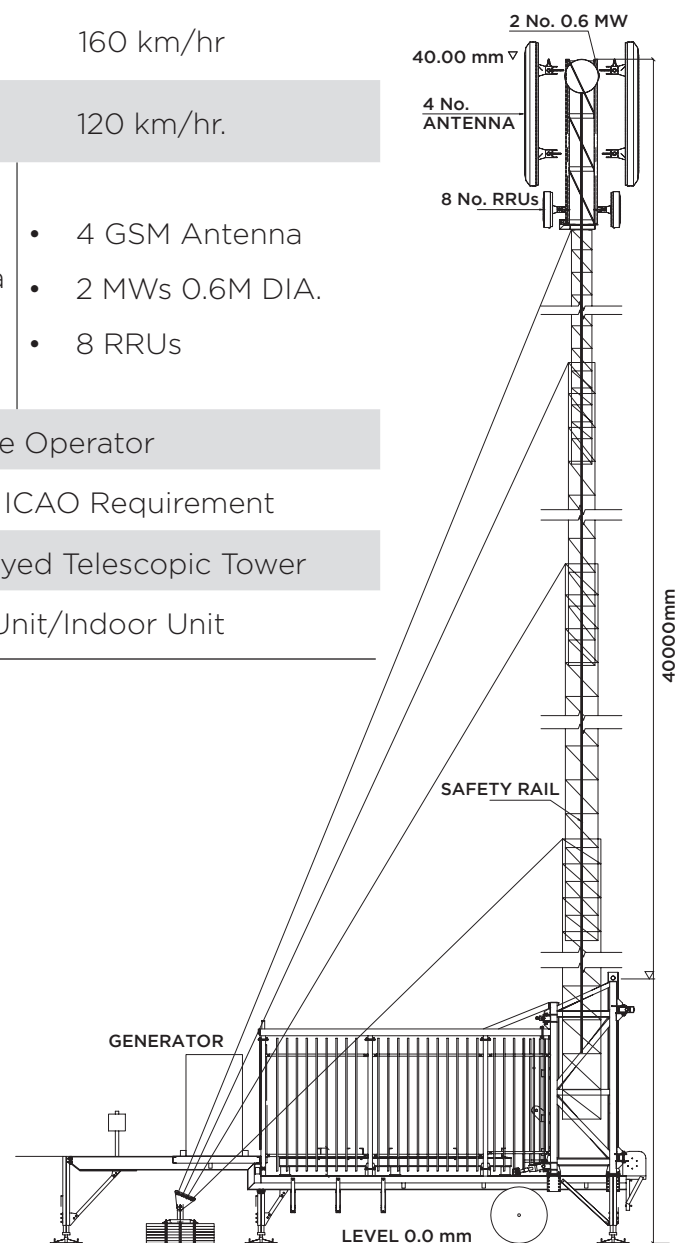
CELL ON WHEEL - LIGHT/MEDIUM COW

TECHNICAL SPECIFICATIONS - Light / Medium (COW)

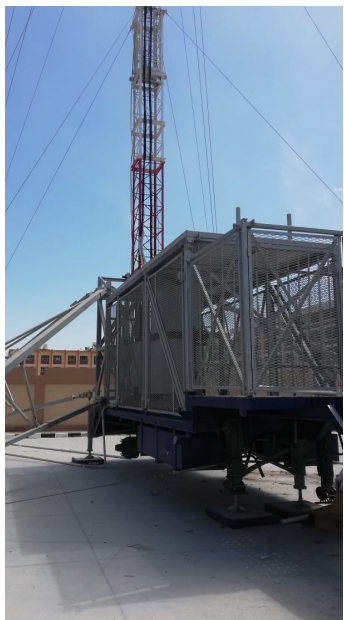
	Light COW	Medium COW
Structure Type	Rapid Deployment Guyed Telescopic tower	
Heights (m)	Adjustable Heights Up to 40 m	
Design Wind Speed	140 km/hr.	160 km/hr
Operational Wind Speed	100 km/hr.	120 km/hr.
Loads	<ul style="list-style-type: none"> 3 NOS. 16-Port Antenna 1 10-Port Antenna 2 MWs 0.6M DIA. 7 RRUs 	<ul style="list-style-type: none"> 4 GSM Antenna 2 MWs 0.6M DIA. 8 RRUs
Operators	Single Operator	
Obstruction Light	According to ICAO Requirement	
Core	Rectangular Guyed Telescopic Tower	
Cabinet	Outdoor Unit/Indoor Unit	



Top view of the COW at operation condition



Elevation at operation condition



RAPID DEPLOYMENT SOLUTIONS

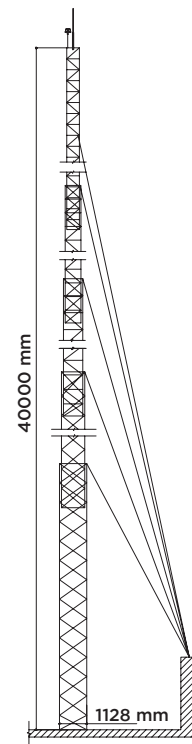
GROUND RAPID DEPLOYMENT (GRD)

G-ENVIRO's Ground Rapid Deployment structures offer a great flexibility to the customer.

We produce self-supported tower and Guyed Towers in different heights and capacities according to the customer's needs.

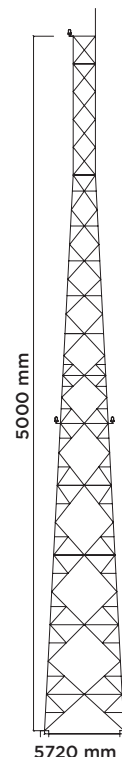
TECHNICAL SPECIFICATIONS - Guyed GRD

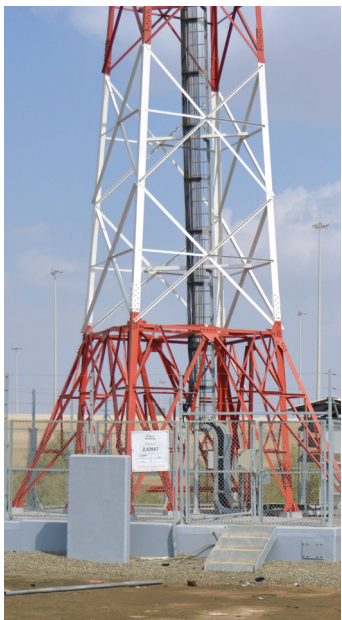
Structure Type	Rapid Deployment Guyed Telescopic tower
Heights (m)	40m - 50m - 60m
Design Wind Speed	145 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none"> • 3 NOS. 30-Port Antenna • 3NOS. 5G Antenna • 2 MWs 0.6M DIA.
Operators	One Operator
Obstruction Light	According to ICAO Requirement
Core	Triangular Guyed Tower



TECHNICAL SPECIFICATIONS - Self Supported GRD

Structure Type	Rapid Deployment Rectangular tower
Heights (m)	36m - 40m - 50m - 60m
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none"> • 9 NOS. 30-Port Antenna • 9 NOS. Penta Antenna • 6 MW 1.2M DIA. • 84 MWs 0.6M DIA
Operators	Three Operators
Obstruction Light	According to ICAO Requirement
Core	Rectangular Tower supported with struts
Other Details	Internal climbing ladder with a safety wire & lightning rod



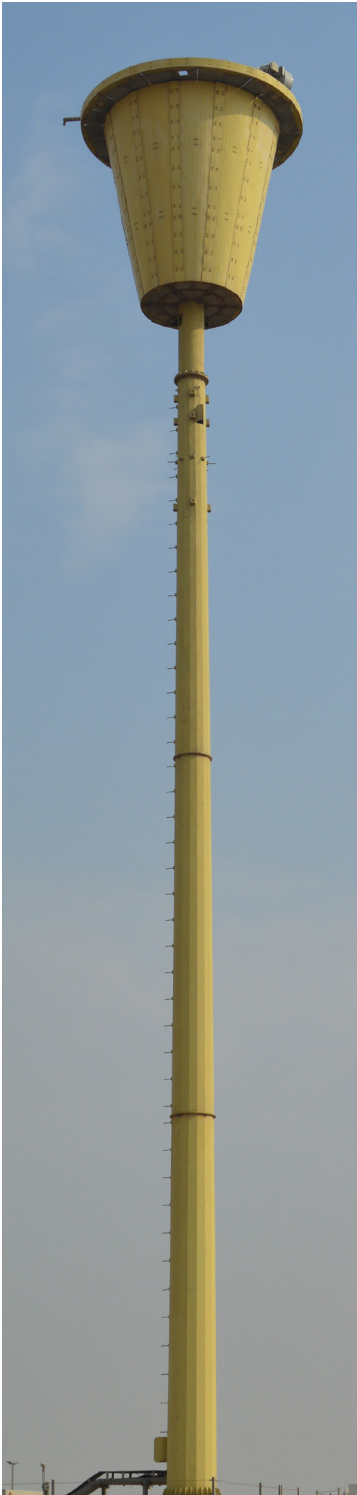


RAPID DEPLOYMENT SOLUTIONS

RAPID DEPLOYMENT SOLUTION (RDS)

TECHNICAL SPECIFICATIONS - RDS

Structure Type	Rapid Deployment Monopole
Heights (m)	25m - 30m
Design Wind Speed	140 km/hr.
Operational Wind Speed	95 km/hr.
Loads	<ul style="list-style-type: none">• 6 m2 EPA @ Top
Operators	One operators
Obstruction Light	According to ICAO Requirement
Core	Monopole
Other Details	Step Bolt with a safety wire & lightning rod

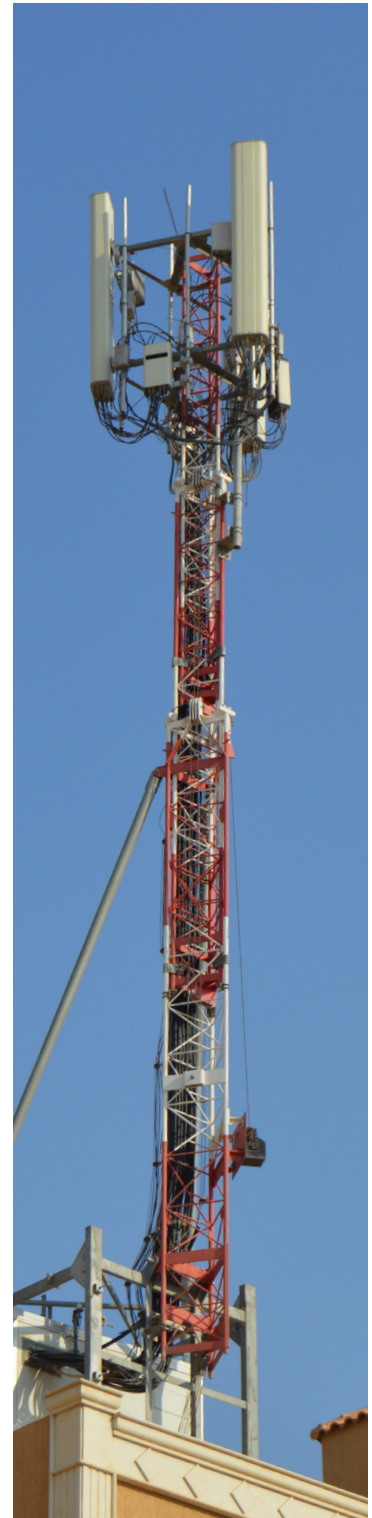


RAPID DEPLOYMENT SOLUTIONS

RAPID ROOFTOP DEPLOYMENT (RRD)

TECHNICAL SPECIFICATIONS - RRD

Structure Type	Rapid Roof Top Deployment Telescopic Tower
Heights (m)	15m
Design Wind Speed	160 km/hr.
Operational Wind Speed	110 km/hr.
Loads	<ul style="list-style-type: none">• 3 GSM Antenna• 2 MW 0.6M DIA.• 6 RRUs
Operators	One Operator
Obstruction Light	According to ICAO Requirement
Core	Roof Top Tower



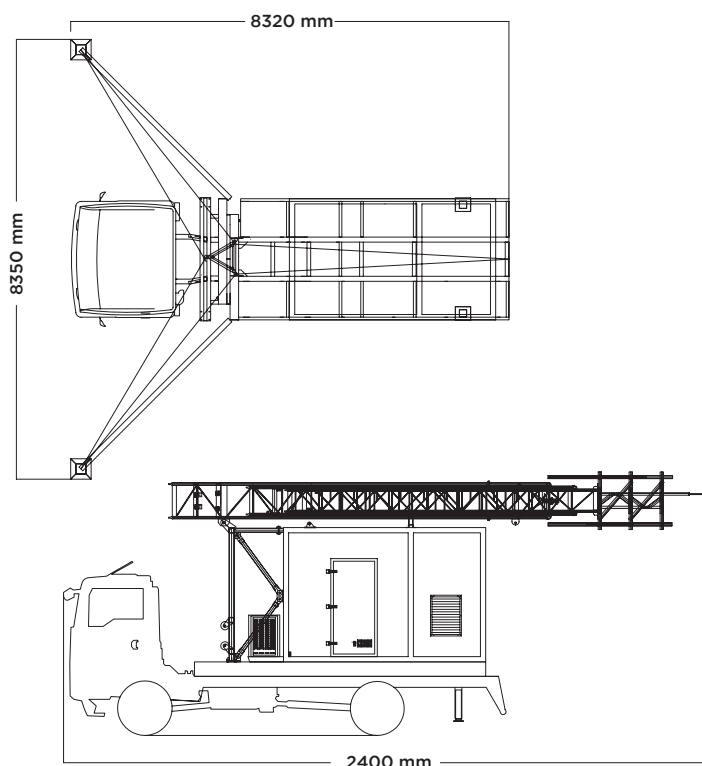
RAPID DEPLOYMENT SOLUTIONS

RAPID DEPLOYMENT VEHICLE (RDV)

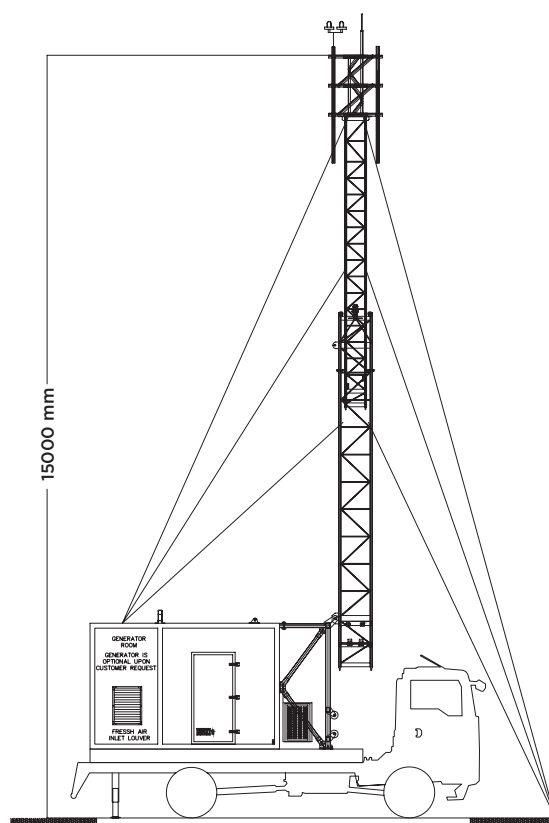
Rapid Deployment Vehicle RDV is a highly efficient product that has the great edge of being mobile and easily moved anywhere. The RDV unit can be deployed and transported several times, making it extremely useful in covering seasonal demands.

TECHNICAL SPECIFICATIONS - RDV

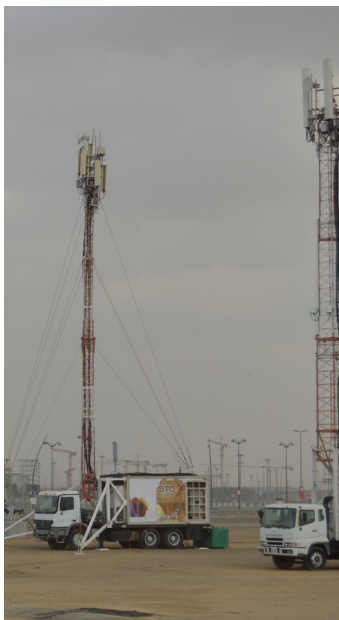
Structure Type	Rapid Roof Top Vehicle
Heights (m)	15m
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none">• 3 GSM Antenna• 2 MW 0.6M DIA.• 1 TRM 0.3M
Operators	One Operator
Obstruction Light	According to ICAO Requirement
Core	Telescopic Tower

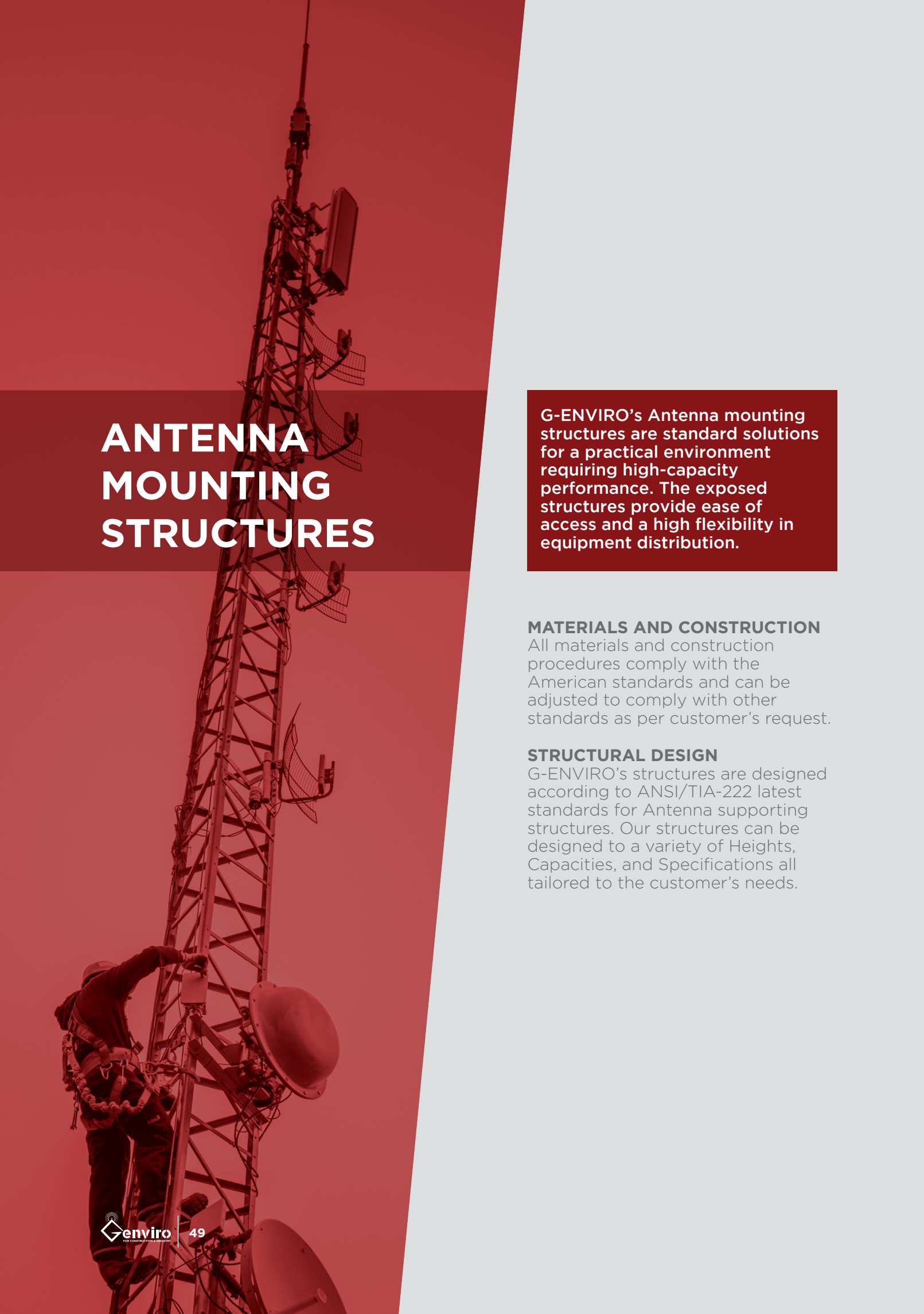


SIDE VIEW



SIDE VIEW IN OPERATION MODE



A tall, lattice-structured antenna tower with multiple antennas and a worker at the base. The tower is made of metal and has several large, white, parabolic antennas attached to it. A worker in a safety harness is visible at the bottom of the tower, working on the structure. The background is a solid red color.

ANTENNA MOUNTING STRUCTURES

G-ENVIRO's Antenna mounting structures are standard solutions for a practical environment requiring high-capacity performance. The exposed structures provide ease of access and a high flexibility in equipment distribution.

MATERIALS AND CONSTRUCTION

All materials and construction procedures comply with the American standards and can be adjusted to comply with other standards as per customer's request.

STRUCTURAL DESIGN

G-ENVIRO's structures are designed according to ANSI/TIA-222 latest standards for Antenna supporting structures. Our structures can be designed to a variety of Heights, Capacities, and Specifications all tailored to the customer's needs.



Greenfield Monopoles



Greenfield Towers (GF)



RoofTop Tower (RT)



RoofTop Pole (PRT)

ANTENNA MOUNTING STRUCTURES

GREENFIELD MONOPOLE

TECHNICAL SPECIFICATIONS - GF Monopole

Structure Type	Pole
Heights (m)	35m and other height are available
Operators	Single and Multiple are available
Obstruction Light	According to ICAO Requirement
Other Details	External ladder with a safety wire & lightning rod

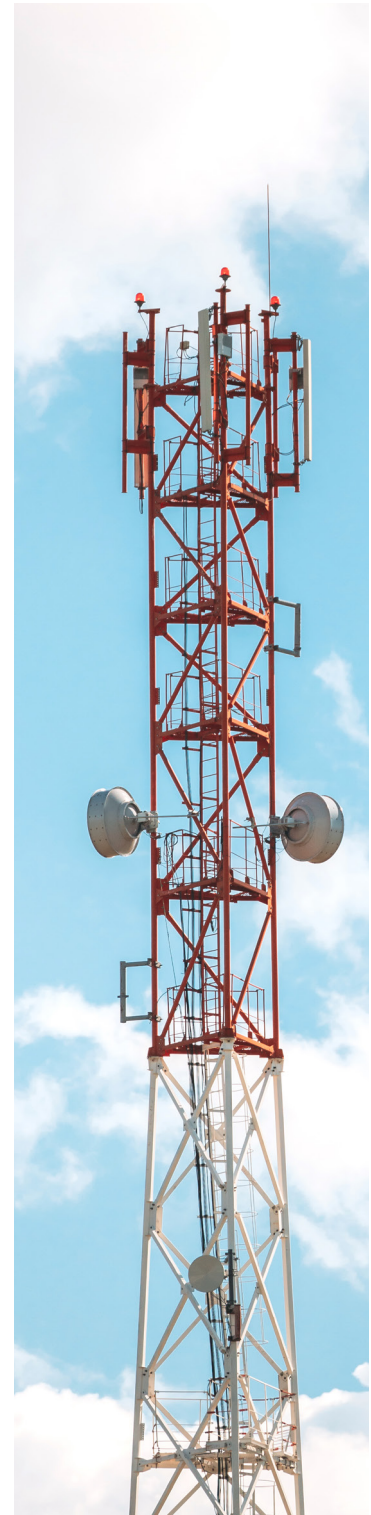


ANTENNA MOUNTING STRUCTURES

GREENFIELD TOWER

TECHNICAL SPECIFICATIONS - GF Tower

Structure Type	Tower
Heights (m)	UP to 60M
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none">• 9 GSM Antennas• 4 Nos. MW 0.6M DIA.• 30 RRUs
Operators	SEVERAL Operators are available
Obstruction Light	According to ICAO Requirement
Core	Self-Supported Tower
Other Details	Internal Ladder with a safety wire & lightning rod

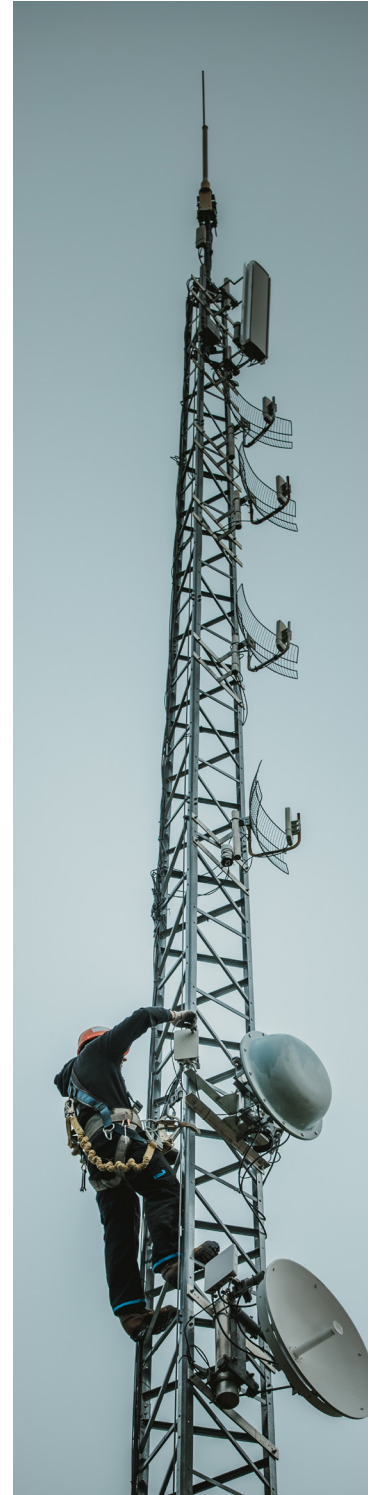


ANTENNA MOUNTING STRUCTURES

ROOFTOP TOWER

TECHNICAL SPECIFICATIONS - RT

Structure Type	Self-Supported Triangular Tower
Heights (m)	Up to 25m
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none">• 6 RT Panel Antenna• 6 MWs 0.6M DIA.• 2 RRUs
Operators	One operators
Obstruction Light	According to ICAO Requirement
Core	Triangular Tower



ANTENNA MOUNTING STRUCTURES

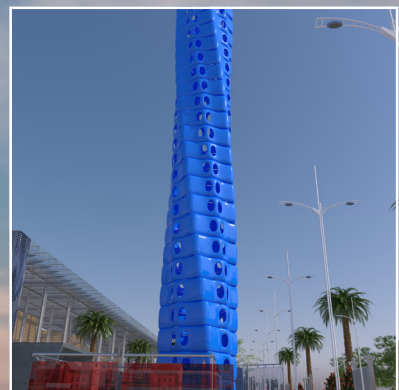
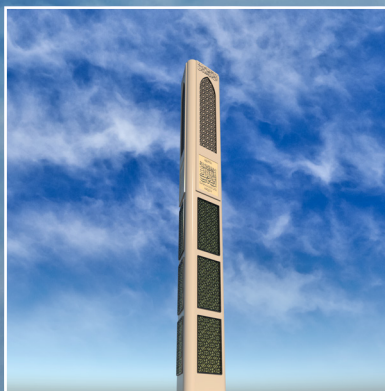
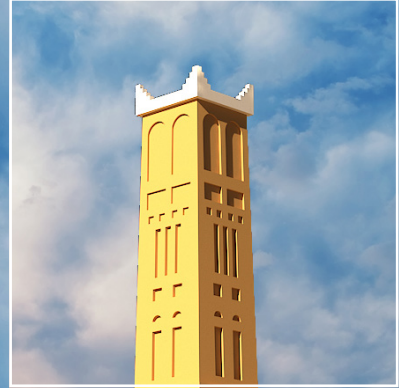
ROOFTOP POLE

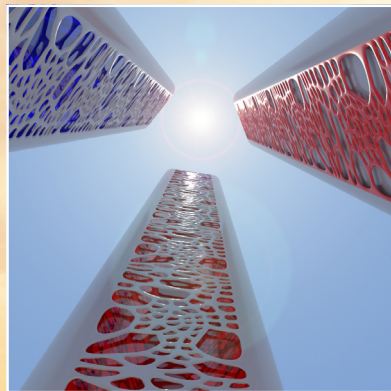
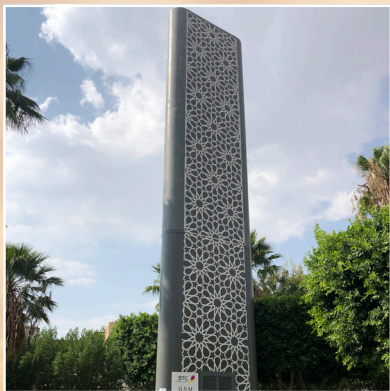
TECHNICAL SPECIFICATIONS - PRT

Structure Type	Roof Top Pole
Heights (m)	9m - 12m - 15m
Design Wind Speed	160 km/hr.
Operational Wind Speed	120 km/hr.
Loads	<ul style="list-style-type: none">• 7 m2 EPA8 MWs 0.6M DIA.• 3 RF ANTENNA• 2 MW 0.6M DIA
Operators	One operator
Obstruction Light	According to ICAO Requirement
Core	Pole connected with strut system
Other Details	Step Bolt ladder with a safety wire & lightning rod



GALLERY





FACILITIES

FACTORIES

- **Camouflage Factory**, Al-Kharj, Saudi Arabia
- **Camouflage Factory**, Port Said, Egypt.
- **Metal Processing Factory**, Al Sharqia, Egypt
- **Steel Factory**, A-Kharj, Saudi Arabia

STORAGE FACILITY

- **Storage Facilities**, Al-Kharj, Saudi Arabia
- **Storage Facilities**, Anshas, Egypt
- **Storage Facilities**, AL Doha, Qatar
- **Storage Facilities**, Oman

MANAGERIAL OFFICES

- **Managerial Building**, New Cairo, Egypt
- **Managerial Office**, Maadi, Egypt
- **Managerial Office**, Riyadh, KSA
- **Managerial office**, Doha, Qatar

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