



CATALOG

MODULAR SHELTER SYSTEMS



MODULAR ACCOMMODATION SYSTEMS

FDomes Defence offers modular tent structures designed to quickly create accommodation infrastructure for crisis situations, military operations and humanitarian missions.

The system is designed for rapid field deployment, easy logistics, and scalability from individual units to entire temporary and long-term developments. The structures can be installed on various types of surfaces without requiring permanent ground disturbance.

Thanks to its modular design and optimized transport system, FDomes Defence solutions enable the quick creation of functional residential infrastructure even in difficult terrain conditions.

FDomes Defense systems can be used in projects such as:

- Accommodation for civilians in crisis situations
- Relocation camps and humanitarian programs
- Military bases and logistics facilities
- Social and transitional housing
- Infrastructure after natural disasters

EXAMPLES OF APPLICATIONS OF THE SAME CONSTRUCTION SYSTEM

6x5 m



- 1** SANITARY MODULE
- 2** KITCHENETTE
- 3** BUNK BEDS
- 4** FURNITURE SET

Social housing unit for family up to 6 people

6x20 m



- 1** SANITARY MODULE
- 2** BUNK BEDS

emergency shelter accommodation for 52 people

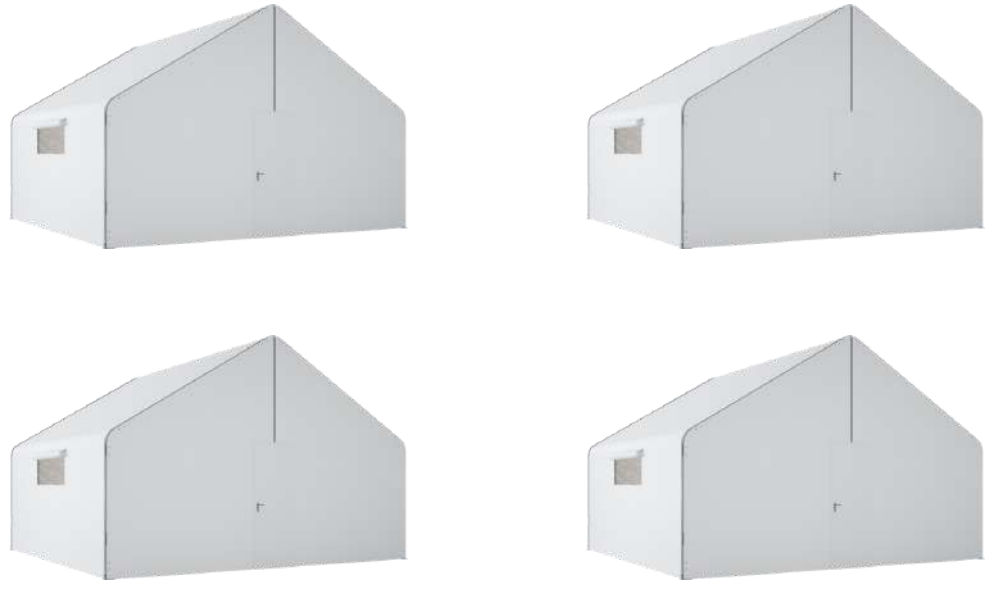
MODULARITY AND UNIVERSALITY OF THE SOLUTION

In crisis situations—from armed conflicts and pandemics to migration crises—time and adaptability are crucial. FDomes Defence gable tents are designed for maximum mobility and functionality where every minute counts.

1 MODULARITY WITHOUT COMPROMISE

The system's greatest advantage is its complete modularity. A basic 6x5m unit provides a foundation that can be expanded as needed. Thanks to an intuitive connection system, switching from four independent units to a single, powerful 6x20m structure (or intermediate configurations: 6x10m, 6x15m) is incredibly quick and easy. This flexibility allows for the rapid transformation of social housing into large-scale emergency tents.

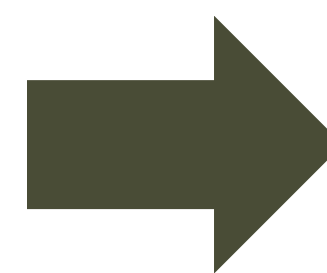
4 INDIVIDUAL SOCIAL UNITS
SUPPORT FOR SERVICES AND GUARANTEEING THE SAFETY OF CITIZENS



4 SEPARATE RESIDENTIAL MODULES
Capacity: for 4 families
4x(3 bunk beds)

Examples of applications:

- Transitional accommodation with shared service facilities
- Social housing with individual utility connections
- Family zones
- Full thermal insulation, bathroom, bedroom and living area



CIVIL PROTECTION TENT
SHELTER FOR 52 PEOPLE - ONE LARGE MODULE



LARGE-AREA RESCUE TENT
Capacity up to 52 people
(24 beds)

Examples of applications:

- Sudden displacement
- Conflict zones
- Crisis response
- Transit camps
- Field hospitals
- Warehouse facilities

2 THE VERSATILITY OF THE SYSTEM

The FDomes Defense system is designed as a flexible, modular platform that can be adapted to various housing scenarios. The same system can be used to quickly create temporary shelters for civilians or to build more permanent housing units in social housing projects. The modular design allows for the elements to be combined into larger collective housing facilities or to divide the space into smaller housing units. Versatile equipment and infrastructure allow for easy adaptation of the facility's function to current needs.

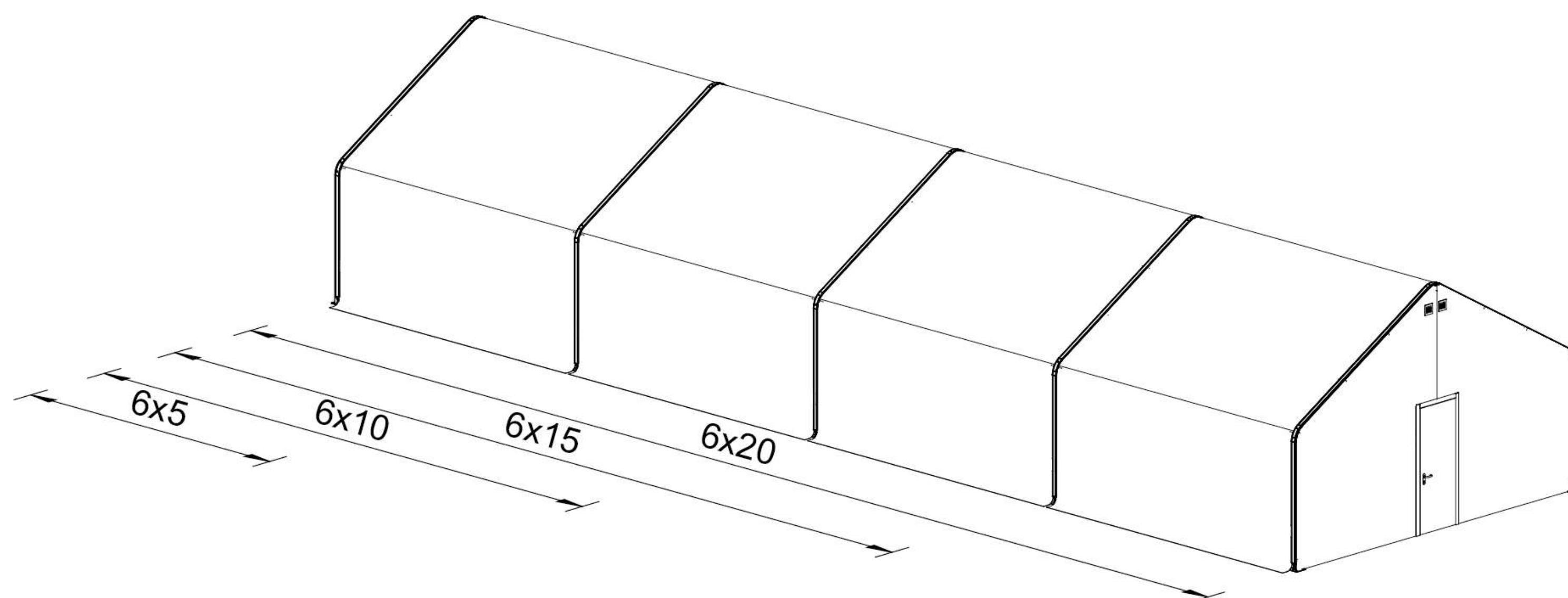




CIVIL PROTECTION TENT

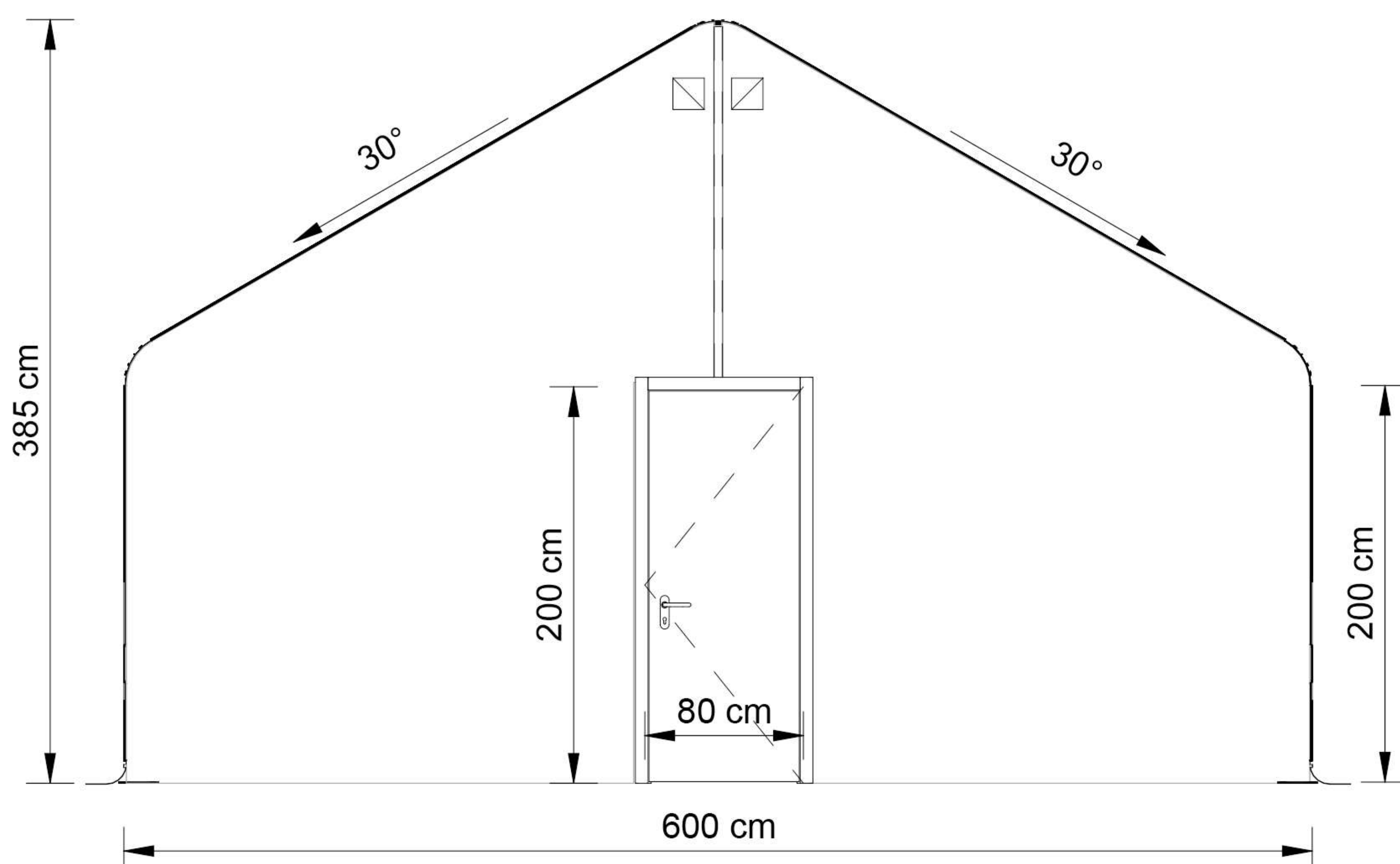
MODULAR TENT SYSTEM

The gable tent system is based on a repeatable construction module with a length of 5 m. Thanks to its modular design, the tent's usable space can be quickly expanded by adding additional segments, without having to change the supporting structure, covering, or assembly technology. This solution allows for the flexible adaptation of the facility's size to current operational needs—for crisis, military, and humanitarian applications.



Sizes of individual modules

All variants of gable tents are based on the same modular structure. They differ only in the number of segments used, which directly translates into the length and usable area of the facility.

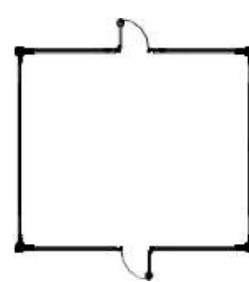


Front view of the tent

MODULAR TENT SYSTEM

AVAILABLE SIZES

TENT 6x5



Dimensions:

- external width: 6 m
- external length: 5 m
- internal floor area: 30 m²

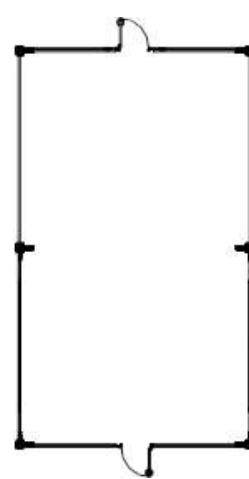
Number of modules:

- 1x5 m

Maximum number of people accommodated:

- 12 people

TENT 6X10



Dimensions:

- external width: 6 m
- external length: 10 m
- internal floor area: 60 m²

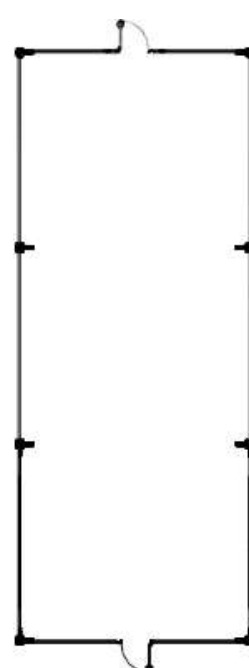
Number of modules:

- 2x5 m

Maximum number of people accommodated:

- 24 people

TENT 6X15



Dimensions:

- external width: 6 m
- external length: 15 m
- internal floor area: 90 m²

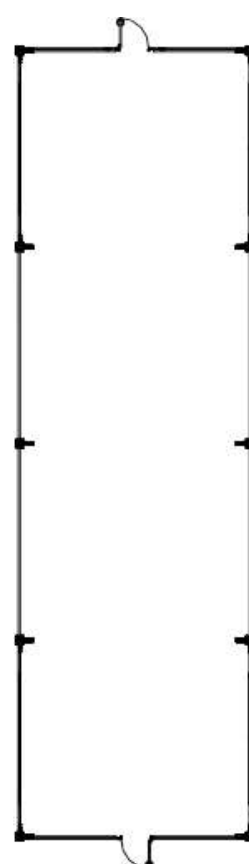
Number of modules:

- 3x5 m

Maximum number of people accommodated:

- 36 people

TENT 6X20



Dimensions:

- external width: 6 m
- external length: 20 m
- internal floor area: 120 m²

Number of modules:

- 4x5 m

Maximum number of people accommodated:

- 52 people

SOCIAL AND TRANSITIONAL HOUSING



SOCIAL AND TRANSITIONAL HOUSING

1 THE NEW STANDARD OF SOCIAL HOUSING

At FDomes Defence, we translate our experience in creating structures for special purposes into solutions that serve local communities. Our social tents are advanced residential units that combine the durability of gabled structures with the comfort of a home. This solution is designed for locations where time, durability, and decent living conditions are crucial – from emergency housing to social welfare centers.

2 A SPACE DESIGNED FOR LIVING

The FDomes Defence social tent is a complete ecosystem. We provide more than just a roof, but a fully equipped space that's ready for immediate occupancy after assembly.

The interior of each tent includes:

- Complete sleeping space: a set of beds for 4-6 people, allowing for a comfortable rest for the family
- Your own kitchenette: a space that allows you to prepare your own meals and enjoy daily independence
- Private sanitary unit: an integrated, fully functional bathroom ensuring the highest standard of hygiene
- Living area: a meeting place equipped with a table and chairs, forming the heart of the apartment

3 DURABILITY WITHOUT COMPROMISE

Our solutions are designed for the most demanding locations and weather conditions. We combine advanced engineering with complete operational autonomy, ensuring safety and comfort regardless of the season.

- Year-round insulation: thanks to advanced membranes and dedicated thermal insulation, the tents maintain optimal temperature even in extreme outdoor conditions
- Heating system: efficient heaters ensure thermal comfort for residents in winter
- Technical autonomy: we offer full infrastructure support – from professional flooring and ballast to drinking water and sewage tanks.



TEMPORARY SOCIAL HOUSING

4 COMFORT IN EVERY TERRAIN

The presented arrangement shows how, thanks to the intelligent use of FDomes Defence accessories, a mobile structure becomes a professional social facility for families, the military, rescue services and crisis management teams.

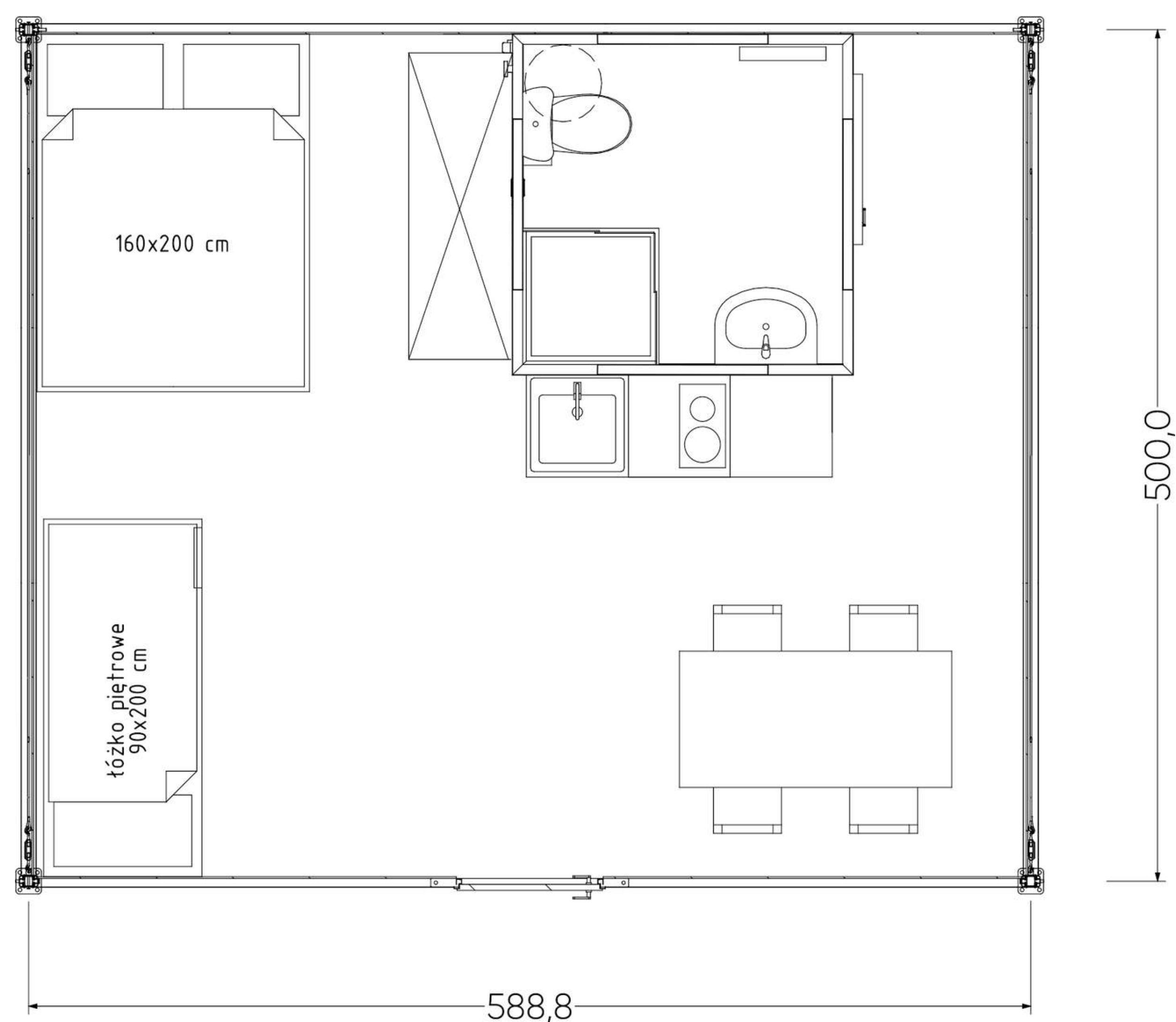
5 COMPREHENSIVE EQUIPMENT

Our arrangement proposal is based on four pillars of functionality that ensure a standard similar to stationary facilities:

- FDomes Defence bed system (see page 14, point 1)
- Steel furniture set (see page 15, point 3)
- Sanitary module (see page 16, point 4)
- Internal kitchenette (see page 17, point 5)

6 ONE SYSTEM, ENDLESS CONFIGURATIONS

Thanks to the fully modular design, you can freely configure the interior, adapting the number of beds or furniture layout to your current operational needs. All components are designed to withstand intensive use and allow for quick assembly in any conditions.



PRODUCT CHARACTERISTICS

Each standard tent is delivered as a complete, self-supporting structure, ready for use after assembly.

1 ALUMINUM AND STEEL CONSTRUCTION

Resistant to intensive use, adapted to repeated assembly and disassembly.

- Pillars and transoms made of aluminum profiles
- Feet, connectors and purlins made of galvanized steel
- High mechanical strength and corrosion resistance

2 EXTERNAL COVERING – TARPAULIN

The outer covering is made of the highest quality single-layer PVC-coated polyester fabric, ensuring high durability, 100% waterproofness, and flame retardancy. Each wall is equipped with a screened window made of transparent PVC film, allowing sunlight to enter during the day.

- Grammage 640 g/m²
- UV resistance
- 100% waterproof
- Resistance to mold and fungi
- High mechanical strength
- Easy to clean
- Flame retardancy – fire classification B-s2, d0 according to EN 13501
- Temperature resistance in the range: from -50°C to +70°C
- Color white (similar to RAL 9003)
- A 50x145 cm transparent membrane window in each wall

3 ENTRANCE DOOR

They provide controlled access to the interior. Doors are located in the two gable walls of the tent – the front and rear.

- Steel door leaf covering
- Internal EPS filling
- Clear passage dimensions 800x2000 mm
- Color white RAL 9016 or anthracite RAL 7016

4 ANCHORING AND MOUNTING ELEMENTS

A set of fasteners and anchoring elements for stable tent installation.

- A set of carbon steel ground stakes for installation on the ground
- A set of concrete anchors for installation on a concrete floor

ADDITIONAL EQUIPMENT

Depending on the purpose of the tent, it can be equipped with additional elements that increase comfort of use, functionality and resistance to external conditions.

1 FLOOR MEMBRANE

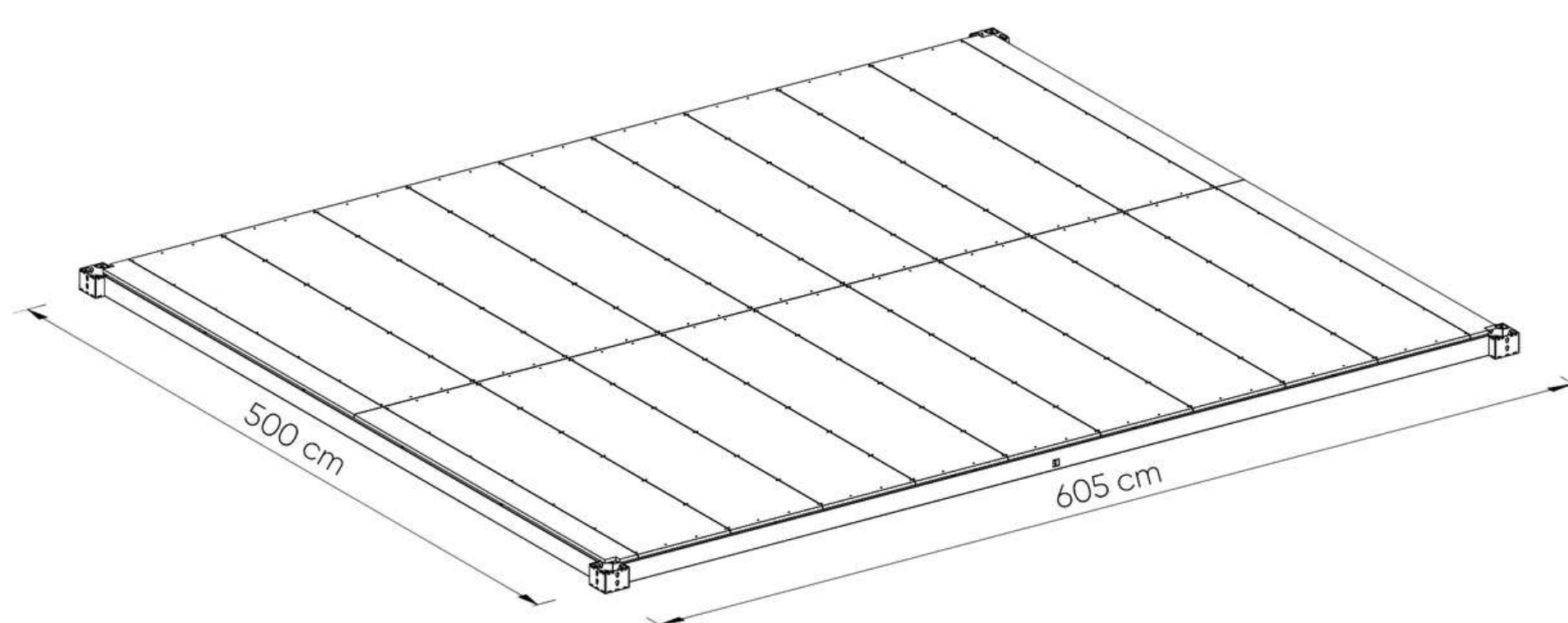
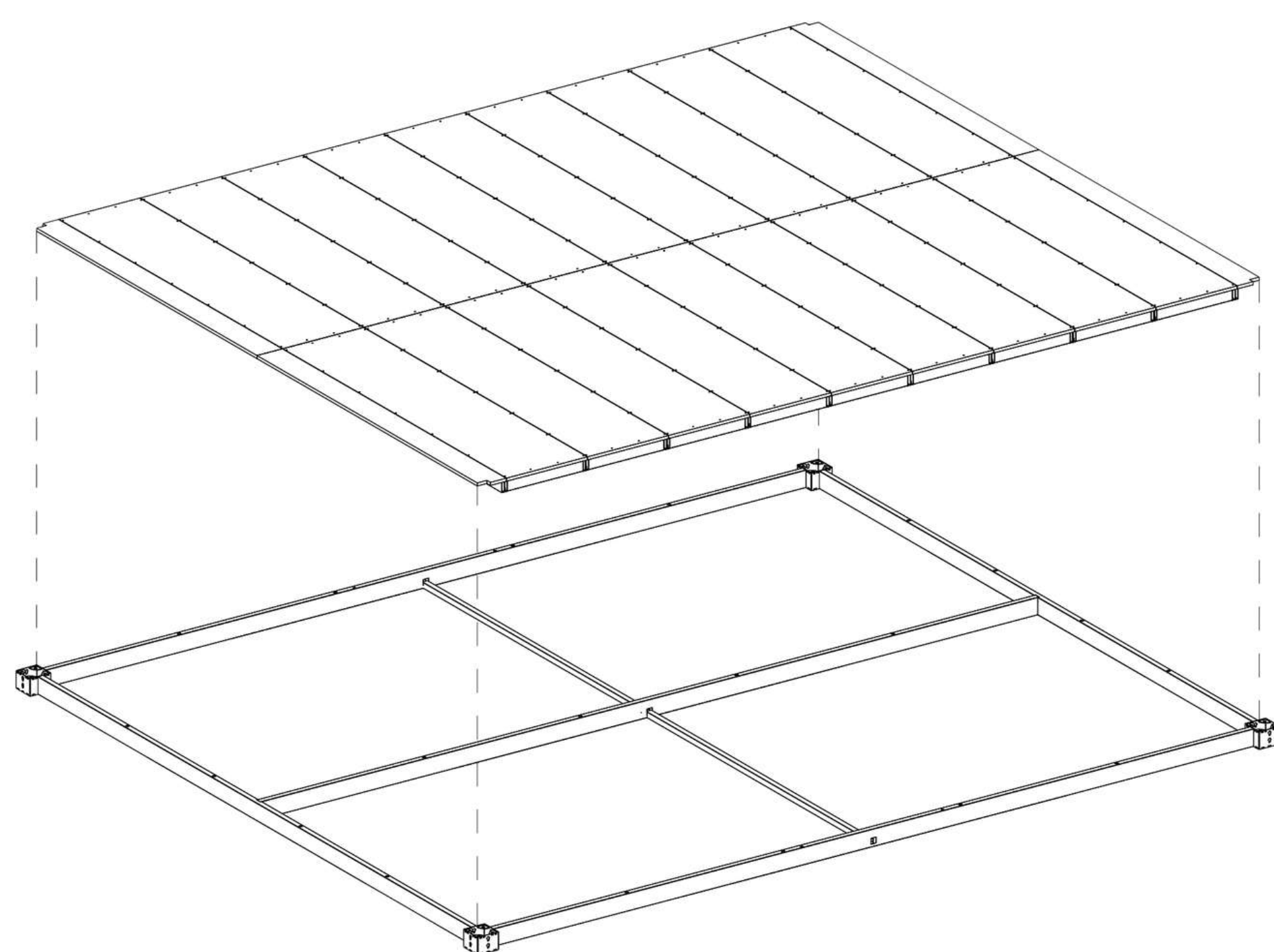
Made of a high-strength, non-slip PVC membrane, it provides a lightweight, quickly deployable ground separation solution, ensuring comfortable work in field conditions.

- PVC coated fabric, one side has a non-slip cube texture
- Grammage 650 g/m²
- Flame retardant according to PN EN 13501-1
- Moisture insulation
- Gray color

2 MODULAR STEEL FLOOR SYSTEM

The rigid floor is made of non-slip plywood supported by steel frames. It creates a level and stable surface regardless of terrain conditions.

- High stability and load capacity
- Possibility of leveling and installation on uneven terrain
- Floor structure made of galvanized carbon steel, resistant to corrosion
- The main supporting profiles are made of a 40x120 mm profile
- Anti-slip, waterproof plywood, 21 mm thick
- Plywood color: dark brown
- Total floor thickness: 141 mm



6x5 m cassette floor module

ADDITIONAL EQUIPMENT

Depending on the purpose of the tent, it can be equipped with additional elements that increase comfort of use, functionality and resistance to external conditions.

3 COMFORT AND INSULATION

Thermal insulation

The tent can be equipped with insulating panels installed in the gable walls, side walls, and roof. These panels are made of a multi-layer thermal insulation mat attached to the tent structure using dedicated brackets. This significantly improves thermal comfort inside the tent, both in winter and summer.

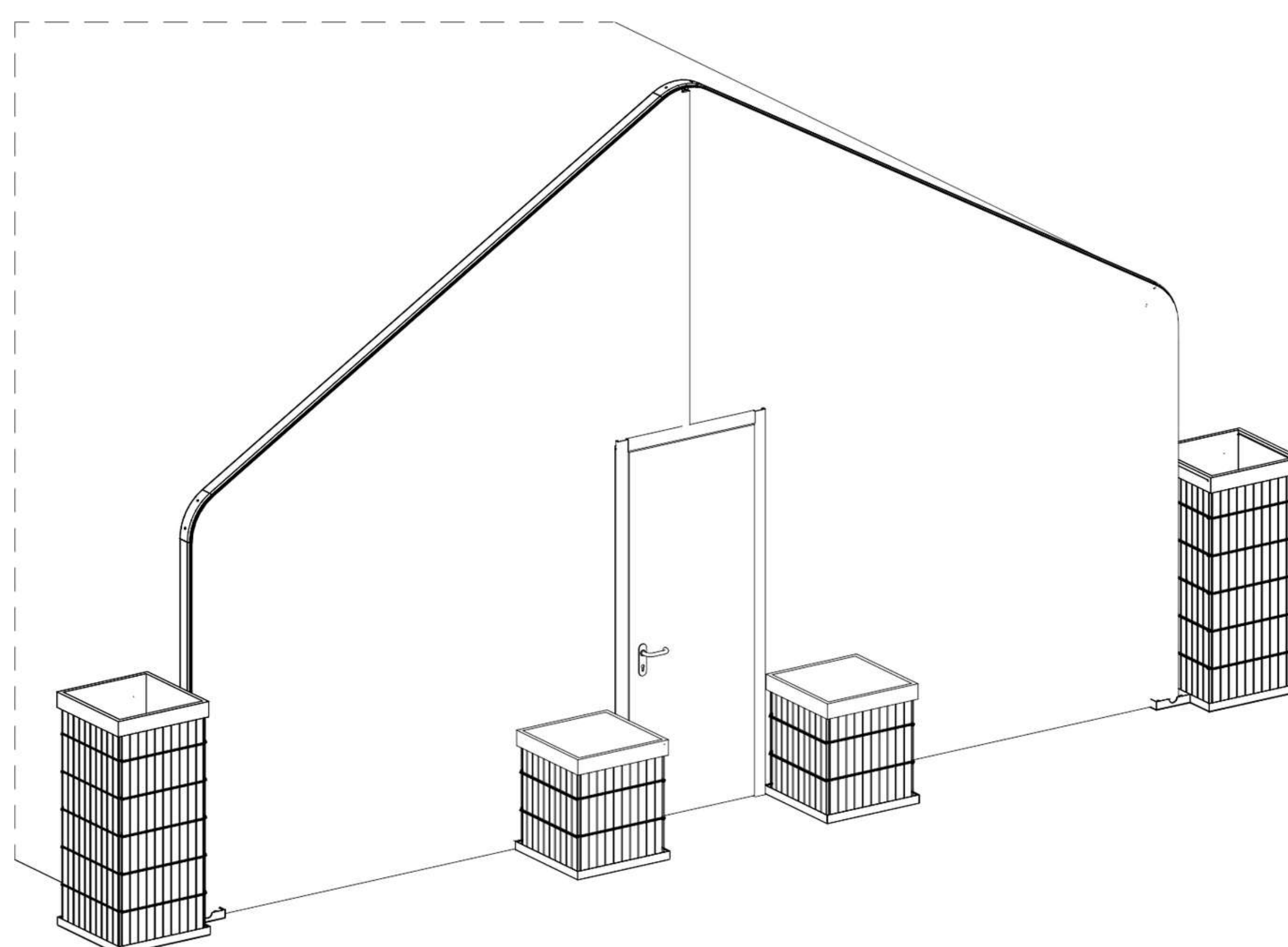
- A multi-layer composite composed of alternating layers of aluminum and air bubbles enclosed in self-extinguishing polyethylene
- Thickness: 10 mm
- Quick and easy installation with mounting brackets
- Thermal efficiency: in summer it reflects heat from the outside, in winter it reduces heat loss inside
- Thermal resistance: $R = 5.70 \text{ m}^2\text{K/W}$
- Moisture resistance - does not absorb water
- Flame retardancy - fire classification B-s1, d0

INTERIOR FINISH | INNER LINING

To enhance the interior aesthetics, tents can be equipped with an internal cover, mounted on the main aluminum profiles from the inside, concealing the insulation and tent mounting hardware. Made of durable polyester material.

4 BALLAST

If it's impossible to anchor the tent to the floor or secure it to the ground with stakes, a solution is to add weight. To achieve this, the tent can be equipped with dedicated water ballast, consisting of steel baskets and PVC membrane ballast bags screwed to each tent foot. After assembly, fill the ballast bag to the maximum level with water, ensuring the tent stands stably and resists weather conditions.



View with ballast applied

ADDITIONAL EQUIPMENT

Depending on the purpose of the tent, it can be equipped with additional elements that increase comfort of use, functionality and resistance to external conditions.

5

INSTALLATIONS

Lighting

Each tent module can be equipped with additional lighting, consisting of two LED lamps suspended from the ceiling and switched on at the door. Installations can be easily extended with additional modules by connecting them in series.

- Two lamps per module suspended from the ceiling
- Possibility to connect additional modules

HEATING SYSTEM

In winter, it may be necessary to heat the interior of the tent to ensure thermal comfort. For each of the four available lengths, we offer oil heaters, with power adapted to the surface area and volume of the interior. The kit also includes ducts suspended from the tent structure, allowing for the distribution of warm air throughout the tent.

- The oil heater runs on diesel or heating oil.
- Integrated fuel tank with level indicator
- Overheating protection
- Stainless steel combustion chamber
- Integrated thermostat
- Connection for external thermostat
- Chassis for easy changing of place

Depending on the size of the tent, the following heater sizes are available:

Tent size [m]	6x5	6x10	6x15	6x20
Heater power [kW]	20	30	50	80



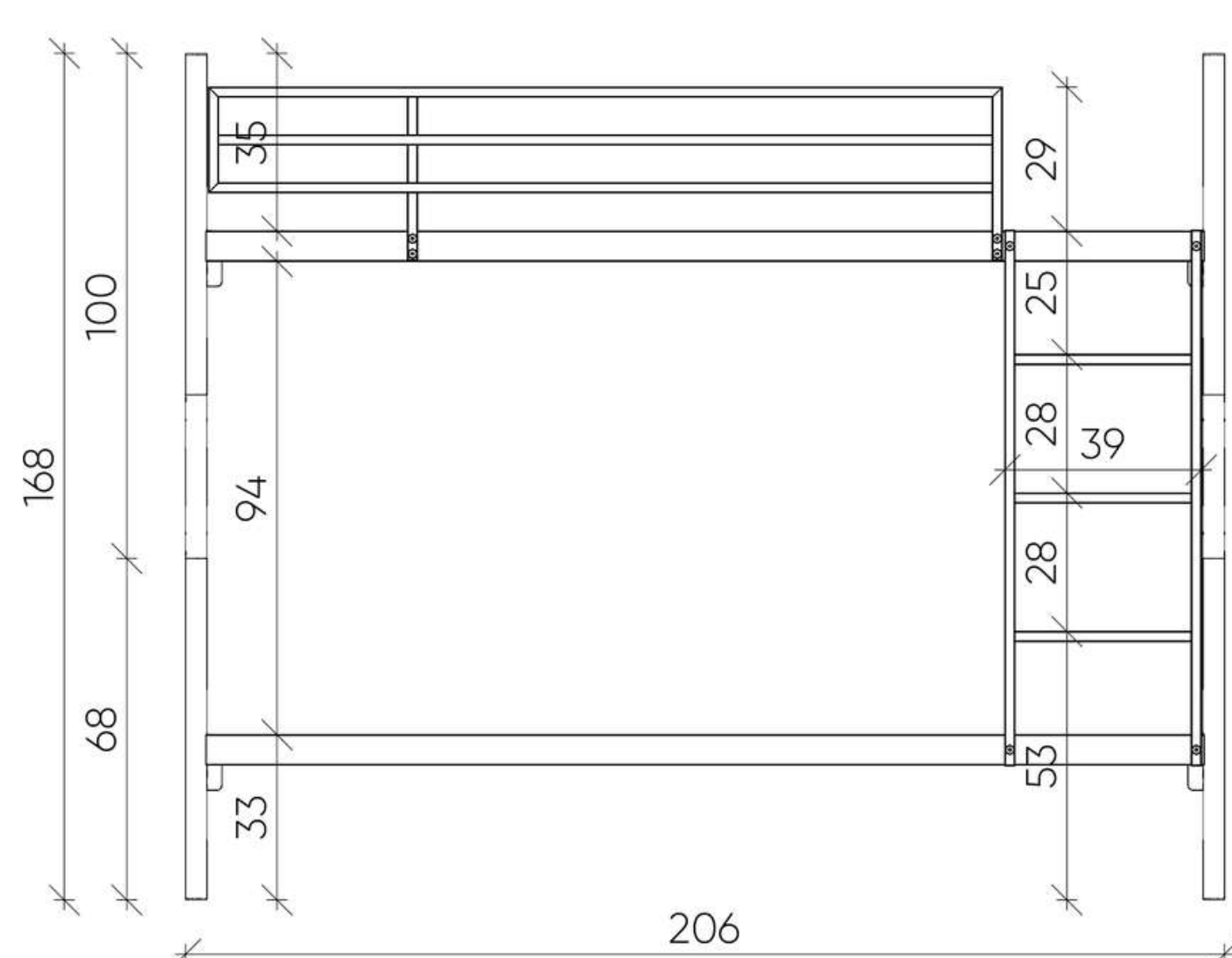
Accessories dedicated to FDomes Defence structures have been designed to quickly transform a raw tent space into a fully operational base, providing safe conditions for work, regeneration and living.

FDomes Defence bunk beds provide a stable, durable, and safe sleeping space, with a load capacity of 150 kg per bed. They can be used as a bunk bed or as two single beds.



FDomes Defence bunk beds are:

- High durability
- Construction made of powder-coated galvanized carbon steel
- Load capacity 150 kg per bed
- Foam mattress with cover included
- Quick assembly and disassembly
- Color black RAL 9004



Technical drawing of a wooden chair showing dimensions in centimeters. The chair has a seat height of 45 cm, a seat width of 33 cm, and a seat depth of 33 cm. The backrest height is 72 cm, and the total height of the chair is 107 cm. The backrest width is 10 cm, and the seat width is 33 cm. The chair has a curved backrest and a curved seat.

Technical drawing of a rectangular plate. The overall width is 206 and the overall height is 80. The drawing shows a series of vertical lines representing a grid or structure. The dimensions are labeled as 206 and 80.

View from
above

ACCESSORIES AND ADDITIONAL EQUIPMENT

2 SLEEPING BAGS

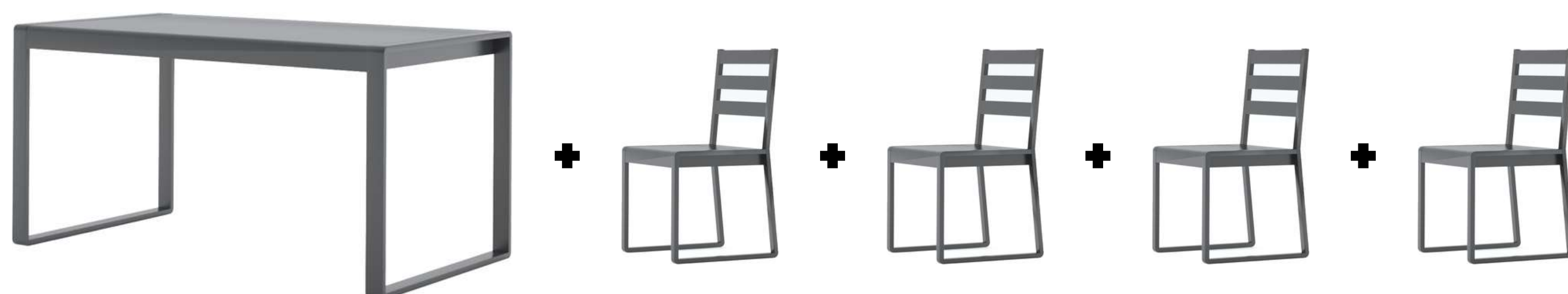
This sleeping bag is a professional solution designed to provide optimal rest in challenging terrain. Combining advanced thermal insulation with an ergonomic quilt-like design, this product is a reliable piece of equipment for operational units, rescue services, and personnel working in crisis situations.



- Compressed size: 28 x 24 cm
- Weight: 1750 g
- Dimensions: 220 (length) x 80 (shoulders) x 80 (knees) x 80 (feet) cm
- Temperature range: up to -7°C
- Type: Quilt
- Lock: Right, Left

3 FURNITURE SET

In response to demanding operational conditions, we present a steel furniture set, designed as a key element of the FDomes Defense gable tents. Consisting of a massive table and four chairs, this set is synonymous with reliability where standard solutions fail.



Technical data of the table:

- Height: 76 cm
- Total width: 147 cm
- Depth: 82 cm
- Maximum load: 200 kg

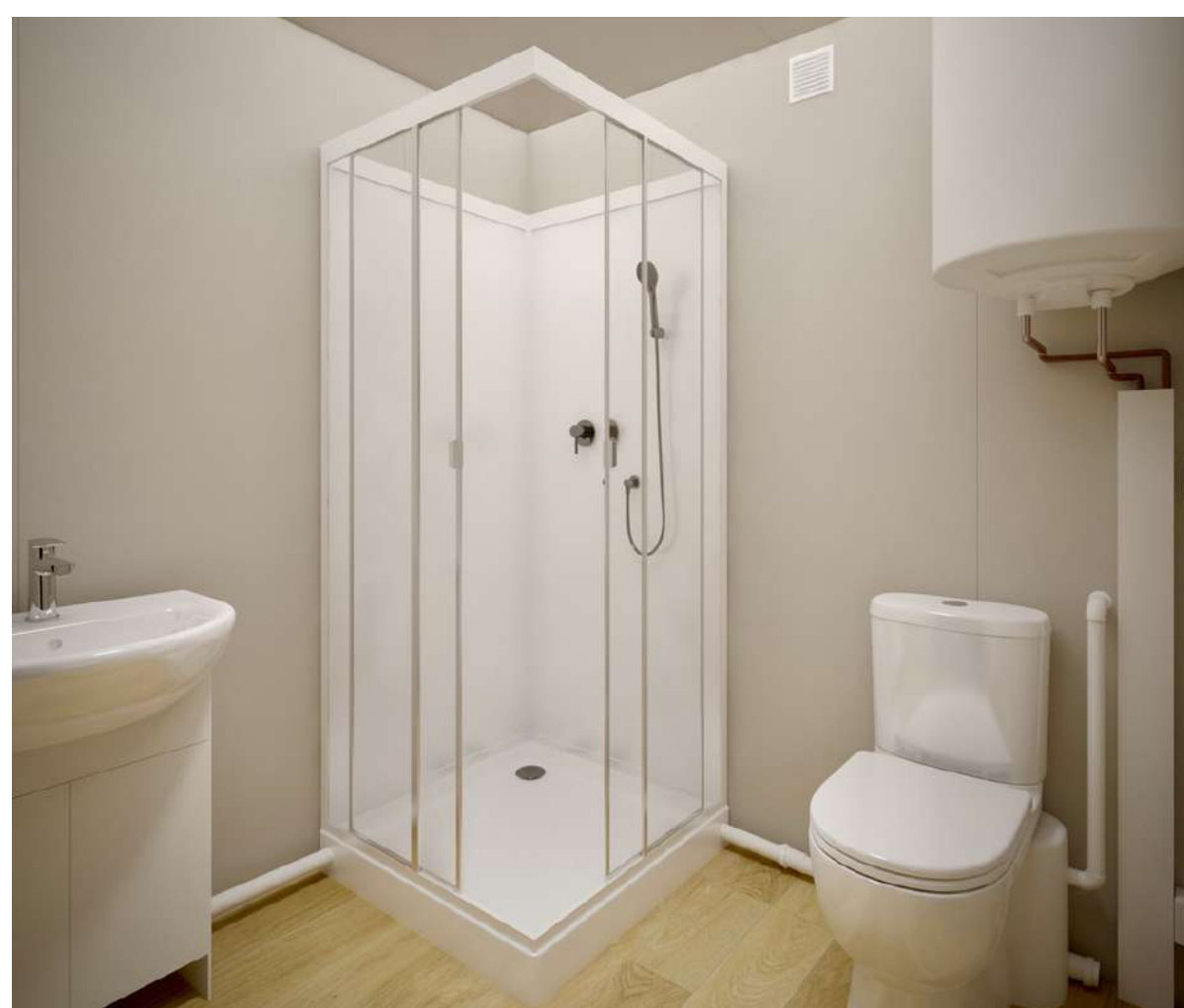
Technical data of the chair:

- Height: 86 cm
- Total width: 46 cm
- Depth: 48 cm
- Maximum load: 200 kg

ACCESSORIES AND ADDITIONAL EQUIPMENT

4 **SANITARY MODULE**

The sanitary module is a comprehensive solution that allows for quick and convenient connection. It is equipped with the basic equipment necessary for comfortable personal hygiene. The module is constructed using a galvanized steel frame and sandwich panels with a PiR core, coated with sheet metal on both sides. This allows it to be used both indoors and outdoors, regardless of weather conditions.



The module is equipped with:

- Toilet
- Shower cabin
- Washbasin with cabinet
- Mirror
- Electric heater
- Boiler with DHW heater
- Electrical installation and lighting
- Complete water and sewage installation
- Sanitary sewage pump
- External power connection (CEE socket)*
- External clean water supply (1/2" quick connector)*
- External sewage connection (STORZ 2 connector)*
- External power socket*
- Floor, walls and roof insulated – PiR 60 mm

*All connections are located on the rear outer wall of the module.

ACCESSORIES AND ADDITIONAL EQUIPMENT

5 KITCHENETTE

For indoor use, the side wall of the sanitary module can be retrofitted with a kitchenette. The set consists of three 60 cm wide cabinets and allows for efficient meal preparation. The design allows for direct connection of the kitchenette to the sanitary module's utilities, simplifying installation and logistics.



The kitchenette consists of:

- 3 under-counter cabinets
- Worktop
- Kitchen sink with tap
- Refrigerator
- Induction hob with 2 heating zones
- Water, sewage and electrical installations connected directly to the sanitary module

Dimensions:

- Width: 180 cm
- Depth: 60 cm

The color of the kitchenette is indicative and depends on current availability.

ACCESSORIES FOR THE SANITARY MODULE

The heart of a modern logistics facility is an efficient sanitary infrastructure, capable of operating in all conditions. To ensure the full functionality of our units in locations without permanent connections, we have prepared a dedicated set of accessories to support water circulation.

1 WATER TANKS

If the sanitary module cannot be connected to running water and sewage, the solution is to connect it to accessory, flexible tanks for drinking water and sewage. Made of a PVC membrane, they take up minimal space during storage and transport, while ensuring independent use.

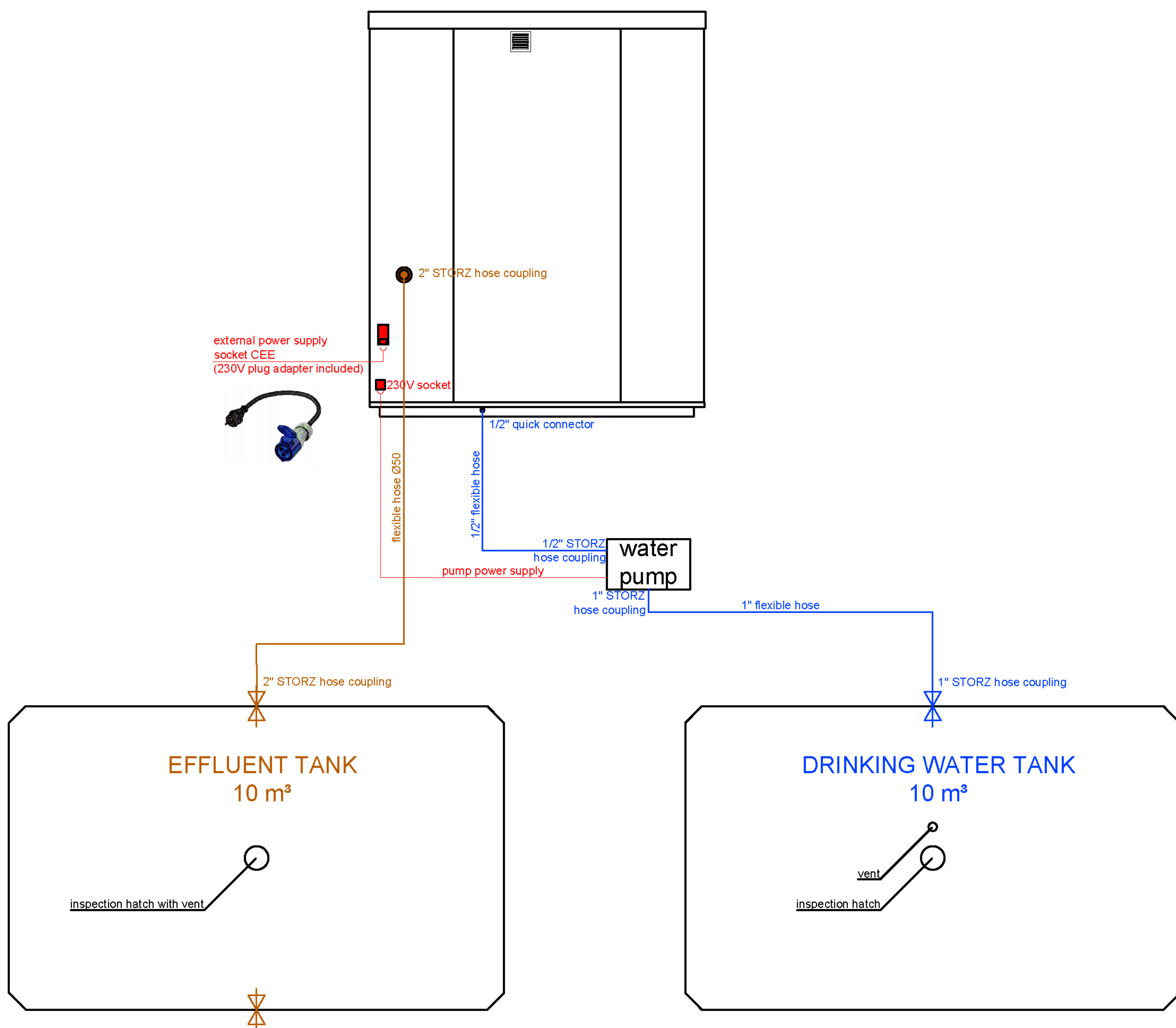


- Available in two capacities: 5 and 10 m³
- Version for clean/drinking water and for sewage/dirty water
- Equipped with connectors for quick connection
- Temperature resistant
- They take up little space during storage and transport.

ACCESSORIES FOR THE SANITARY MODULE

2 WATER PUMP, HOSES

To connect the sanitary module with tanks, you need a water pump and clean water, sewage and electrical cables.



TRANSPORT AND ASSEMBLY TRAILER

The FDomes Defence mobile trailer is designed as a comprehensive solution for the rapid transport and deployment of temporary infrastructure in crisis situations. **The twin-axle trailer carries a complete FDomes Defence 6×20 m collective accommodation tent system, fully prepared for immediate use upon arrival at the operational site.**

The system has been designed to maximize operational simplicity and logistical efficiency. It requires only a standard towing vehicle for transport, eliminating the need for heavy-duty haulage, additional service vehicles, or any material handling equipment such as forklifts or cranes. Deployment is carried out directly from the trailer, without the need for lifting equipment or any work at height.

This solution addresses the real needs of emergency services and crisis response units by removing key barriers that typically delay the rapid establishment of temporary field infrastructure. Thanks to full mobility and operational readiness, the trailer can be dispatched immediately upon receiving an alert, ensuring fast and effective support in situations requiring an urgent response.



SYSTEM ADVANTAGES:

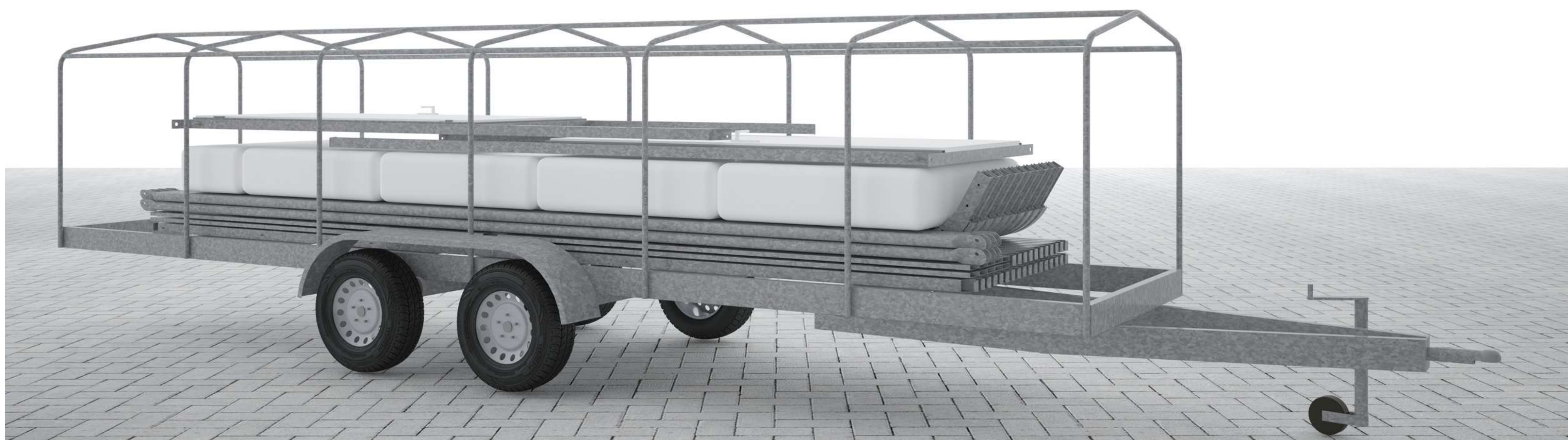
- **No need to organize heavy transport** — the trailer simultaneously serves as a transport unit, assembly platform, and storage facility. A standard towing vehicle is sufficient to transport the complete 6×20 m tent system — a passenger car or van (2-ton GVW trailer).
- **No need for a forklift** — all structural components are factory-organized and securely fixed on the trailer platform. Assembly is carried out manually, without the use of a forklift or additional material handling equipment.
- **No work at height required** — the connection system and assembly sequence are designed so that the entire process can be performed from ground level. The solution does not require scaffolding, lifting equipment, or specialized working-at-height certification.
- **Operational readiness within minutes** — the trailer can remain on standby at a municipal parking area or crisis management center. Upon receiving an alert, it can be dispatched immediately, without waiting for equipment operators or arranging additional transport.

TRANSPORT AND ASSEMBLY TRAILER

MOBILE CRISIS RESPONSE KIT — 1 or 2 trailers

Complete shelter for 52 people. Towed by a standard vehicle.

The FDomes Defence 6×20 m collective accommodation tent is available in a mobile trailer-based configuration. Depending on operational needs, the system can be configured as:



Trailer 1 — Tent Structure



Trailer 2 — Equipment Trailer

Configuration 1 — Construction Trailer (tent only, without equipment) — intended for units that already have their own equipment or order furnishings separately.

Configuration 2 — Construction Trailer + Equipment Trailer — a complete accommodation system for 52 people delivered in two trailers. Beds, sleeping bags, oil heating, LED lighting, and electrical installation — all ready for direct unloading and deployment straight from the trailer.



WHO WE ARE

We are a Polish company based in Szczecin and a global leader in modern mobile architecture. For nearly two decades, we have been implementing projects on seven continents – from luxury glamping bases to large-scale event tents. This unique combination of strength engineering and design allows us to create safe, durable, and fully functional facilities.

We specialize in large-scale self-supporting structures that redefine temporary spaces. Using proprietary technologies, we deliver solutions with large surfaces while maintaining complete mobility and ease of assembly. Our experience in building residential structures ensures our tents guarantee reliable thermal comfort and protection from external factors, even in the most challenging environments.

We support those on the front lines. FDomes Defense solutions are used by military units, emergency services, and public institutions. Our products are designed for intensive use and the harshest terrain – where compromise is unavoidable.

MORE THAN A PRODUCT

As a manufacturer, we provide not only the delivery of ready-made systems but also comprehensive after-sales support. We offer service, regular maintenance, and professional cleaning of PVC membranes, which significantly extends the life of our products and keeps them in full working order for many years. This ensures that our customers receive not only high-quality designs but also the assurance that they will function reliably in every situation.

ABOUT THE SYSTEM

Main advantages:

- Modularity
- Quick assembly and disassembly
- Scalability
- Production in the EU
- Customization for the customer

Application:

- Emergency accommodation
- Military and territorial defense
- Humanitarian aid / NGO
- Temporary camps
- Medical points / field hospitals
- Field/logistics warehouses
- Temporary social housing

FDOMES – GLOBAL ENGINEERING LEADER

Global Trust, Unrivaled Engineering

Over 20 years of experience and over 2,000 completed projects worldwide make FDomes a global leader in lightweight tent structures. We possess unrivaled expertise in steel engineering and advanced membrane technologies, delivering robust, rapidly deployable solutions that perform in the most demanding emergency situations. Our long-standing heritage ensures that each unit meets the highest global standards of durability and functional excellence.

20

years of experience

2000

projects

55

countries





In crisis situations, time and reliability are crucial. By choosing FDOMES Defense solutions, you're investing in infrastructure that will withstand the harshest conditions. We're ready to provide technical and logistical support to ensure security where it's needed most.

Please contact us to tailor the tent specifications to your operational requirements.