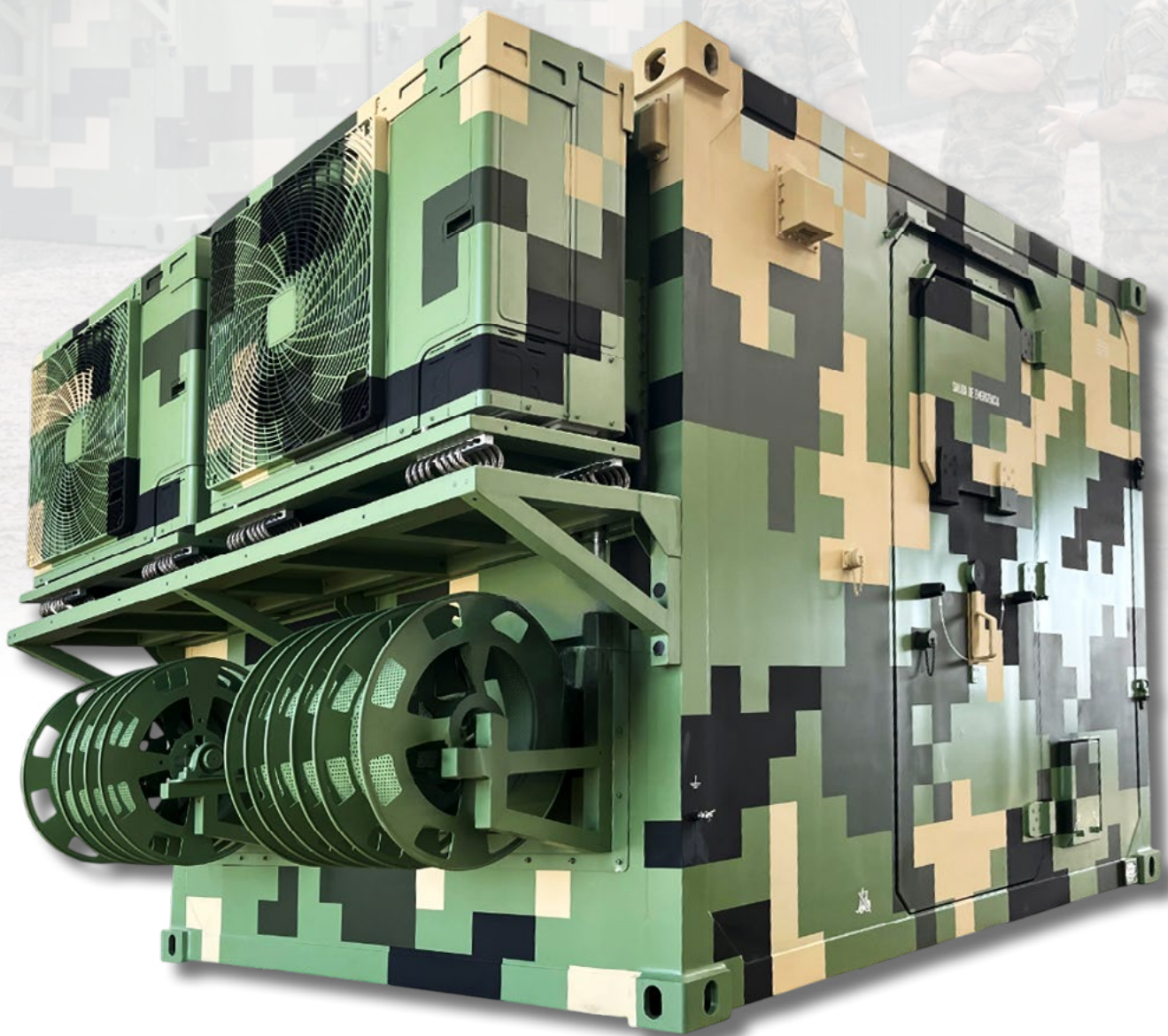


# MILITARY SHELTERS

ISO10FT



**LeciTrailer**  
DEFENCE DIVISION

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## SHELTER MODELS

| Model    | Dimensions L W H(mm) | Net Weight (Kg) | Play Load (Kg) |
|----------|----------------------|-----------------|----------------|
| ISO 10FT | 2991x2438x2438       | Under spec      | Under spec     |

## ISO 10 FT SHELTER PERFORMANCE

|                         |                                               |                                  |                                                                                                                                             |
|-------------------------|-----------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specification</b>    | ASTM E-1925; ISO 668                          | <b>Standard accessories</b>      | (4x) Mooring slings                                                                                                                         |
|                         |                                               |                                  | (1x) Keyguard (optional)                                                                                                                    |
|                         |                                               |                                  | (1x) Floor EMI/RFI 24mm drain hole                                                                                                          |
|                         |                                               |                                  | (1x) Depressurization device                                                                                                                |
| <b>Construction</b>     | Rivetless                                     | <b>Corner fittings</b>           | According to ISO 1161                                                                                                                       |
| <b>Weight</b>           | According to customer needs or under standard | <b>C-Rails</b>                   | According to customer needs or under standard                                                                                               |
| <b>Payload</b>          | According to customer needs or under standard | <b>Shielding effectiveness</b>   | 60 dB attenuation from 150 kHz to 10 GHz according to MIL STD 285 / IEEE 299 (Greater shielding effectiveness can be provided upon request) |
| <b>Loads</b>            | <b>Roof</b>                                   | <b>Extreme temperature</b>       | Operation (-40°C to +55°C)                                                                                                                  |
|                         | <b>Floor</b>                                  |                                  | Transport and storage (-45°C to +70°C)                                                                                                      |
| <b>Drop shock</b>       | According to MIL STD 810                      | <b>Heat transfer coefficient</b> | ≤ 1.5 WC°m²                                                                                                                                 |
| <b>Transportability</b> | According to MIL STD 810                      | <b>Water tightness</b>           | According to MIL STD 810 G Method 506.5 Procedure II                                                                                        |

## SHELTER SUBSYSTEMS

### CONNECTOR PANELS

According to customer needs. In aluminium bolted to the shelter with sawtooth shape for connection of data and/or power connectors. The panels shall be provided with transport cover, 45 and 90 degree anchoring possibility and rain gutter.

In addition, the panels will have the necessary gaskets for EMI / RFI protection as well as water tightness.

### ELECTRICAL PANEL BOARD

Electric panel made of stainless steel AISI 304 or better, powder coated RAL under customer needs.

Vibration shock absorbers included according to requirements. Dimensions and internal equipment according to specification.

### INTERIOR SHELTER LIGHTS WITH B/O FUNCTION

Low-profile, rugged and durable LED luminaire equipped with MIL-STD461 compliant white (4000K) and blue-red-green (war) light. Includes door-opening switch with disconnect capability from the electrical panel.

### EMERGENCY LIGHT

Emergency lighting with battery for minimum 1 hour autonomy.

### MILITARY HVAC SYSTEMS

#### Military:

Supply and installation of a military type air conditioning system (condenser + evaporator) with the following main features:

- Operating range -32°C to 60°C (Degraded mode from 45°C).
- Cooling capacity according to specification.
- Heating capacity according to specification.
- Refrigerant R407C.
- Remote control box.
- Honeycomb in supply and return 3/16" x 25.4mm cell.
- According to MIL STD 461.

#### Commercial:

Supply and installation of a commercial type air conditioning system (condenser and evaporator) with the following main features:

- Cooling capacity according to specification.
- Heating capacity according to specification.
- Refrigerant according to manufacturer.
- Remote control box.
- Vibcable with natural frequency between 5 and 25 Hz damping up to 40% and high deflection in all directions. These dampers can absorb accelerations to equipment subjected to shock or drop.

### TELESCOPIC MASTS

According to customer needs.

### SHELTER REPAIR CASE

Including basic tools and components for minor shelter repairs.

### GROUNDING SPIKE KIT

Grounding kit (consisting of a screw located in one corner of the shelter, earthing rods with 100µm copper bath, 1000mm long and Ø20mm, and cable reel of 3 sections of 10m long and 25mm<sup>2</sup> cross-section).

### CBRN FILTRATION SYSTEM

CBRN Air Filtration Unit (AFU) configured to provide full overpressure collective protection for military shelters.

Incorporates a standard Composite CBRN Filter (170m<sup>3</sup>/hr) designed to meet the requirement of NATO Standard AEP-54 and an inertial particulate separator with up to a 96% efficiency to improve system performance and durability and address the difficulties associated with the ingress of fine dust particles into the vehicle or shelter.

#### Designed to meet MIL STD 461F

It includes remote control module with audible and visual low pressure alarms that indicate when overpressure is falling below acceptable levels within the crew compartment.

(\*) No compatible with commercial HVAC systems.

### SHELTER ROOF ACCESS

- Roof access ladder integrated in the outer wall of the shelter.
- Fold-out roof access steps with fold-out roof handles on roof (180Kg/30 minutes).

### CABLE REELS

According to customer needs.

### SHELTER ACCESS

Telescopic aluminium ladder for access to shelter with folding handrail. Dimensions and RAL according to customer's requirements.

### SHELTER LIFTING/LEVELLING SYSTEMS

**Supply and installation of a military lifting system with the followings features:**

- Fitted to ISO CORNERS with additional lateral diagonal bracing to increase rigidity.
- Drive by high-efficiency ball screw and powered by AC or DC motors.
- Automatic levelling system with load sensor to monitorize the weight supported.

#### Shelter inclination along X and Y axes:

- Extension of each support.
- Current consumption of each motors.
- Load on each support and total shelter weight.

#### Warnings on display with acoustic signal:

- Excessive shelter inclination.
- Upper or lower rated stroke exceeded.
- Excessive current consumption.
- Support not locked in the operating position.
- Support lost contact with the ground.
- Support or shelter overloaded.

#### Technical features:

- Load capacity system up to 15 Tn.
- Load capacity per support 50% of LCS.
- Lifting Height up to 1850mm.
- Lifting speed up to 4 mm/s.
- Ground Inclination max. 3.5°.
- Tolerance for level control +- 0.25°.
- Win Load 20 m/s.
- Operational temperature range -32°C to 55°C.

# MILITARY SHELTERS

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LeciTrailer shelters offer excellent performance depending on the customer's specific requirements. Lightweight, heavy-duty and optimal insulation technology, the shelters meet general-purpose applications for housing defense systems.

- Designed and tested according to ASTM-E1925-18 "Engineering and Design Criteria for Rigid Wall Relocatable Structures".
- Built by sandwich panels formed by two continuous sheets of aluminum, internal framework of high-strength extruded aluminum and polyurethane foam. The shelter is assembled with specific tools to obtain flatness and orthogonality according to ASTM-E1925 using state-of-the-art welding techniques (CMT).
- High shielding efficiency and sealing due to the construction process developed by LeciTrailer Defence.
- High adaptability to customer requirements from the embryonic design stage.
- Supply and installation of HVAC, CBRN systems, integrated power generators, electrical panels according to customer diagram and lights with B/O function.

### CUSTOMIZATION POSSIBILITIES

The customization of LeciTrailer Defence shelters starts during the design phase, being able to manufacture any size of shelter up to 15 meters. In the construction of the sandwich panels, it is possible to integrate transfer plates for the attachment of heavy devices such as equipment racks, telescopic masts, generator sets, etc.

LeciTrailer Defence designs electrical panels according to the customer's needs, as well as wiring and connectorization according to military standards.

### CAPABILITIES

Lecitrailer's Defence Division relies on advanced industrial capabilities, backed by decades of manufacturing experience and state-of-the-art production infrastructure. Our investment in technology, certifications and quality enables us to develop tailor-made solutions for the military sector, ensuring reliability, strength and adaptability in each of our products.



### CERTIFICATES

Our Defence Division complies with the most demanding international standards in the sector, ensuring the quality and safety of each of our products:

- ISO 9001 – Quality Management
- ISO 14001 – Environmental Management
- UNE-EN 15085 – Railway welding certification applicable to the manufacture of military metal structures.
- Specific certifications for Shelters and defence structures according to NATO regulations and military standards.

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