

BASIC SHELTER



Designed according to applicable military standards and in any case in compliance with COTES-CN-SH-94.

The basic shelter is designed according to applicable military standards and in any case in compliance with COTES-CN-SH-94. The load-bearing structure consists of six panels made with a sandwich system (internal and external light alloy leathers 10/10 thick hot glued onto high-density self-extinguishing insulating material assembled together using light alloy profiles converging on eight corner blocks which allow the shelter to be maneuvered, stacked and anchored. A suitable insulating material with self-extinguishing characteristics will be provided between the covering sheets.

Operating conditions:

Ambient temperature $-32^{\circ}\text{C} + 49^{\circ}\text{C}$ –

Relative humidity 10% - 85%

Altitude $\leq 3,000\text{m s.l.m.}$

Storage conditions:

- Ambient temperature $-25^{\circ}\text{C} + 50$

- Relative humidity 10% - 90%



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Transport:

- Ambient temperature $-40^{\circ}\text{C} + 60^{\circ}\text{C}$
- Relative humidity 10% - 90%
- Vibrations in accordance with Finabel 2C 10, file 33.

EMI / RFI requirements:

for the electromagnetic aspects, the structure will guarantee shielding from electromagnetic waves and ensure a value of 60dB of electromagnetic attenuation in the fields indicated by MIL STD 285 / IEE 299. In particular, the following measurements are carried out in the respective frequency ranges of interest as required by COTES- CN-SH-94, and more exactly:

- Magnetic field: linearly variable from 60 dB at 10 kHz to 80 dB at 100kHz.
- Electric field and plane wave: 80 dB between 100 kHz and 100 MHz; 60 dB between 100 MHz and 1 GHz

The materials used for the construction of the system shelters and accessories are subjected to the following protective treatments:

- galvanizing of common steel according to ASTM B633-78 and Uni 5744-66
- passivation of stainless steel according to QQP-35
- chromating of aluminum according to MIL-C-5541 military standard
- External painting: green, black, brown polychrome according to the camouflage configuration scheme (to be determined later, if required, with specific paint).

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- Internal painting: two-component polyurethane varnish ivory semigloss RAL1015. All screws and small parts (including threaded inserts) used both internally and externally will be stainless steel class A2.

Accessory elements supplied:

- a- foldable steps for roof rise
- b- sliding blocks for handling
- c- 6 kg fire extinguisher with relative support
- d- first aid kit
- e- Pioneer tools kit
- f- Ladder with supports for wall mounting
- g- Shielding kit
- h- Earthing system
- i-identification plates l- leveling feet