

S-280C/G



The S-280 shelter provides optimum performance under the most demanding field conditions. Lightweight, high strength, insulated and all weather, this shelter stasis general purpose applications for housing communications and other transportable electronic equipment. Rugged inside and outside, the S-280 is equipped to withstand adverse weather and terrain, in addition to a high level of interior traffic.

The S-280 shelter is of foam-and beam sandwich panels which consist of a polyurethane foam core, aluminum skins and a framework of high strength aluminum alloy extrusion. Structural strength is assured by

orientation of the Door and roof beams in transverse direction. This "barrel hoop" construction provides the ability to withstand drop tests and high roof loads. Foam and beam panel construction provides high strength to weight ratios and facilitates ease of modification, repair, and maintenance. Thick inner and outer floor skins (0.050 in.) lend added strength to withstand increased personnel or equipment traffic. Shelter corners are reinforced to accept leveling jacks and to withstand side load imposed by high wind velocities.

The original S-280 shelter was reviewed under the U.S. Army Product Improvement Program. As a result of this review and the DoD standardization of shelter programs, the current S-280 was developed and reflects valuable construction changes and nomenclature model redesignation. The result is an improved, tested, standard shelter.

The S-280 can be transported via military truck, helicopter, cargo, aircraft such as the C-130, M720 and M832 mobilizers, and by rail and ship

Performance Specifications:

Specification MIL-S-55286E

Roof Load:

- Snow and Ice: 75 lbs./sq. ft.
- Personnel and Equipment: 660 lbs. over a 2 sq. ft. area

Floor Loads: 2,500 lbs. over 3 sq. ft. area without permanent deformation

Member Loading: Wall, roof, and floor tensile load 2,000 lbs. followed by 100 inch-pounds torque load (5/16"-18 inserts)

Operating: -65° F to +125° F plus

Non-operating: -80° F to +160° F

Heat Transfer: U-factor 0.28 BTU/hr./sq. ft./°F **RFI Shielding:** With addition of RFI modification kit, attenuation of 60 dB minimum over 150 kHz to 10 GHz for electric and magnetic fields and plane waves measured IAW MIL-STD-285

Lifting Eyes: Four (4) eyes with 3 in. inside clearance. 14,400 lbs. tensile load per corner in any direction

Towing Eyes: Four (4) eyes with 2 in. inside clearance. 14,400 lbs. tensile load per corner in any direction

Features:

- Skids: Three (3) full length replaceable shock absorbing type
- Roof Access Steps: Three (3) recessed folding steps in sidewall and one roof handhold
- Combination lifting/tie down sling to facilitate handling

Options:

- RFI modification kit
- Mobilizer adapter kit for shelter/transporter interface

