

Ramim Engineering Works LTD

Military Portable Shelters

With over 40 years of experience as a leader in tactical shelter design and manufacture, Ramim is recognized world wide for its efficient production of lightweight units. Today these rugged transportable shelters are used by every army around a world. Ramim Engineering Works Ltd. is a subsidiary of Koor Metals Group. Ramim is a division of Koor Metals and receives direct technical, financial and logistical support from this organization. The company utilizes U.S. and Israeli know-how to manufacture a specialized line of transportable prefabricated Communications Shelters, Mobile Tactical Shelters, Telecommunications Shelters, Mobile Laboratories, Collapsible Cabins, Refrigerated Container Trucks. The company manufactures Communication Shelters in accordance with various American Military Specifications.

S-1497 SHELTER

LIGHTWEIGHT HMMWV ENCLOSURE



Subject to technical modifications. E&OE.



Brochure No-2014-06



Modification & Integration:

Ramim Engineering Works Ltd. can meet any Modification or Integration requirement from simple Entry Panel through Power Distribution, Lighting, Air Conditioning, Equipment Racks, Power and Signal Cabeling Racks and Onboard Power Generators. Ramims Communications Shelters and products incorporate any EMI, RFI protection and EMC compatibility requirements.

The following are Ramim's Shelters as per NATO standards: NATO-I, NATO-II, NATO-III, ACE-I, ACE-II, ACE-III
The following are Ramim's Shelters as per US Specifications: S-250/G, S-280C/G, S-1497, S-788, 20' ISO Shelters, 20' One-Sided or Two-Sided Expandable Shelters Various types of Shelters can be manufactured to order up to 50' long.

Areas of Deployment:

- Transmitting and Receiving Stations
- Air Defence Command Control Centers
- Mobile Military Command Centers
- Mobile Laboratories
- Mobile Workshops
- Radio and TV Link Stations
- Mobile Medical Units
- Air Traffic Control, ATC Centers
- Disaster Relief Coordination Centers
- Various mobile Housings and Enclosures for UAV & Missiles

Ramim's key Advantages:

- In house Design and Production
- Modularity
- Survivability
- Low life cycle cost
- Maximum space and maximum payload without sacrificing mobility
- Increased RFI integrity throughout the lifecycle of the Shelter
- Full Qualification to US Military Standards & NATO Standards

S-1497

S-1497 SHELTER

LIGHTWEIGHT HMMWV ENCLOSURE

Ramim lightweight model S-1497, electronic equipment shelter goes beyond the normal lightweight shelter construction technology. The S-1497 offers the lightest enclosure possible that is consistent with rugged mobility, RFI integrity and performance under environmental extremes.

The S-1497 utilizes the same construction consist of a polyurethane foam core, aluminum skins and framework of high strength welded and riveted aluminum alloy extrusions. This traditional foam-and-beam panel construction allows quick and easy installation of strong rivnut anchor points for mounting mission equipment.

At 547 lbs, the S-1497 reduced weight increased the maximum payload and extends the range of the HMMWV. Since the shelter was designed for dedicated use with the HMMWV, bulky tie-down slings are not required. The S-1497 is easy bolted onto the vehicle with a bolt-on attachment kit or shock absorbers attachment (HMMWV) mounting kit).

C-130 drive-on/back-off capability meets your transportation needs.

Roof load	<ul style="list-style-type: none"> Snow and ice 40 lbs over 1 sq. ft area. Personnel and equipment 660 lbs over 2 sq. ft area.
Floor load	1000 lbs over 2 sq. ft area. without permanent deformation
Mounting member support loads	Wall, roof and floor tensile load 1000 lbs followed by 100 inch-pounds torque load 5/16"-18 inserts
Temperature extremes	<ul style="list-style-type: none"> Operating: -65°F to 125 °F plus solar load. Non-operating mode: -80 °F to 160 °F
Heat transfer coefficient	$U\text{-factor} = 0.46 \frac{Btu}{hr \cdot ft^2 \cdot ^\circ F}$ Designed to meet requirements of ASTM E 1925 (MIL-STD-907)
Watertightness	Completely water-tight; Tested to 21 inch fording depth and simulated rainfall
Lifting eyes	Four (4) eyes with 3" inside clearance.
Standard features	<ul style="list-style-type: none"> Roof Access steps: Two(2) recessed folding steps in sidewall and one roof handhold Access ladder: Standard ladder with external mounting bracket
Transportation	Shelter designed for dedicated use with HMMWV
Optional features	<ul style="list-style-type: none"> Generator tunnel Roof mounted escape hatch Shock absorbers attachment kit (#5100-200)
RFI shielding	In excess of 60dB over 150 KHz to 10 GHz for electric and magnetic fields plane waves measured IAW MIL-STD-285

Model No	Description	Specification	Exterior dimensions [in]			Interior dimensions [in]			Shelter weights [lbs]	Payload [lbs]	Outline drawing No
			H	W	L	H	W	L			
S-1497	Industry Std.	MIL-S-44408, MIL-STD-907B (ASTME 1925)	68½	88	102	65	81	97 7/16	547	3300	S1497-0800

