

# 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 it's 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-280 C/G SHELTER

## ELECTRONIC EQUIPMENT

NSN 5411-01-092-0892 UNSHIELDED

NSN 5411-01-304-3069 SHIELDED (EMI kit included)



Subject to technical modifications. E&OE.



Brochure No-2014-01



### 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

**RAMIM**  
ENGINEERING WORKS LTD  
[www.ramims.com](http://www.ramims.com)

P.O.Box 668, Kiryat Shmona  
1101502, Israel  
Tel: + 972 4 6940072  
Fax: +972 4 6949782  
E-mail: office@ramim.net

**RAMIM**  
ENGINEERING WORKS LTD

# S-280

# S-280 C/G SHELTER

## Electronic Equipment

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

The S-280C/G shelter is constructed of foam and beam sandwich panels which consist of a polyurethane foam core, aluminum skins and a framework of high strength aluminum alloy extrusions. Structural strength is assured by orientation of the floor and roof beams in

transverse direction. This "barrel hoop" construction provides high strength to weight ratios and facilitates ease of modification, repair and maintenance.

Thick inner and outer floor skins (0.05 inch) lend added strength to withstand increased personnel or equipment traffic. Shelter corners are reinforced to accept leveling jacks and to withstand side load imposed high wind velocities.

- RFI modification kit: MK-1079/G, DL-SC-A-621051
- Mobilizer adapter kit S-280 with M720 mobilizer drawing C-6000206

<b>Roof load</b>	<ul style="list-style-type: none"> <li>• Snow and ice 75 lbs over 1 sq.ft area.</li> <li>• Personnel and equipment 660 lbs over 2 sq.ft area</li> </ul>
<b>Floor load</b>	2500 lbs over 3 sq. ft area without permanent deformation
<b>Mounting member support loads</b>	Wall, roof and floor tensile load 2000 lbs followed by 100 inch-pounds torque load 5/16"-18UNC inserts
<b>Temperature extremes</b>	<ul style="list-style-type: none"> <li>• Operating: -65°F to 125 °F plus solar load.</li> <li>• Non-operating mode: -80 °F to 160 °F</li> </ul>
<b>Heat transfer coefficient</b>	$U\text{-factor} = 0.28 \frac{Btu}{hr \cdot ft^2 \cdot ^\circ F}$ <p>Designed to meet requirements of ASTM E 1975(MIL-S-55286E)</p>
<b>RFI shielding</b>	With addition of RFI modification kit MK_1079/G, attenuation of 60 db minimum over spectrum of 150KHz to 10000 MHz for electric and magnetic fields and plane waves when measured in accordance with MIL-STD-285.
<b>Watertightness</b>	Completely water-tight; tested to 21 inch fording depth and to simulated rainfall.
<b>Lifting eyes</b>	<ul style="list-style-type: none"> <li>• Four (4) eyes with 3" inside clearance.</li> <li>• 19200 lbs tensile load per corner in any direction</li> </ul>
<b>Towing eyes</b>	<ul style="list-style-type: none"> <li>• Four (4) eyes with 2" inside clearance.</li> <li>• 19200 lbs tensile load per corner in any direction</li> </ul>
<b>Standard features</b>	<ul style="list-style-type: none"> <li>• Latching device: Three point roller cam latching mechanism provides ease of personnel door operation while maintaining weather and RFI integrity</li> <li>• Skids: three(3) full length replaceable shock absorbing type</li> <li>• Roof Access steps: three(3) recessed folding steps in sidewall and one roof handhold</li> </ul>
<b>Transportation</b>	<ul style="list-style-type: none"> <li>• The S-280C/G can be transported by military truck, helicopter, cargo aircraft such as the C-130, by rail and ship</li> <li>• M720 and M832 mobilizers</li> </ul>

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-280C/G	Industry Std.	MIL-S-55286E, ASTM E 1975	86 <sup>3</sup> / <sub>8</sub>	87	147	77 <sup>1</sup> / <sub>4</sub>	81 <sup>1</sup> / <sub>2</sub>	138	1400	7100	SMD-947080
S-280C-80	80" High S-280C	MIL-S-55286E, mod.	89 <sup>1</sup> / <sub>4</sub>	87	147	80	81 <sup>1</sup> / <sub>2</sub>	138	1600	7100	SMD-947080/M
S-280(B)/G	Industry Std.	MIL-S-55286D	83 <sup>3</sup> / <sub>8</sub>	87	147	74 <sup>1</sup> / <sub>2</sub>	81 <sup>1</sup> / <sub>2</sub>	138	1380	5000	SC-D-144516
S-749/G	78" Long S-280C	MIL-S-55286E, mod., ASTM E 1975	86 <sup>3</sup> / <sub>8</sub>	87	87	77 <sup>1</sup> / <sub>8</sub>	81 <sup>1</sup> / <sub>2</sub>	78	1050	3500	7019081
S-280	IDF type	MIL-S-55286D	83 <sup>3</sup> / <sub>8</sub>	87	147	74 <sup>1</sup> / <sub>2</sub>	81 <sup>1</sup> / <sub>2</sub>	138	1200	5000	7000100

