

# HMMWV Shelters

## lightweight multipurpose shelter



The S-788 Lightweight Multipurpose Shelter produced by General Dynamics Armament and Technical Products provides a versatile shelter for a broad range of uses.

The LMS shelters offer a lightweight shelter with improved Electromagnetic Interference, watertightness, and thermal and impact performance. The patented U-Panel construction has been improved by incorporating EMI-resistant enclosure panels; welded seams; one-piece, co-cured wheel wells and Nomex honeycomb core.

GDATP's design eliminates reliance on secondary treatments, such as closeout angles, that have inherent EMI and moisture leak paths and are susceptible to deterioration when exposed to the rigors of the field.

GDATP has replaced the 3/8-inch-cell WR-II kraft paper core with 1/4-inch-cell Nomex. The inherent toughness and resilience of the aramid-fiber Nomex core offers performance improvements not possible with the brittle paper core, such as resistance to denting and core damage, continued panel strength, and improved thermal insulation.

Intended for the High Mobility Multipurpose Wheeled Vehicle, the versatile design and integration capabilities of the LMS allow GDATP to offer a variety of optional equipment, including full turn-key and specialized systems to meet customer requirements.

### Shelter and Shelter Construction Methods

EMI resistant panels – U.S. patent number	5,713,178
European patent number	261,559
German patent number	P376298.4
Canadian patent number	1,290,912
U.S. patent number	4,787,181

### NSNs For HMMWV Shelters

Type I, basic shelter, empty	NSN 5411-01-357-3582
Type II, basic with tunnel, CB and hatch	NSN 5411-01-333-5941
Type III, basic with tunnel	NSN 5411-01-357-3583

**Specifications**

Military specification	MIL-PRF-44408	
Dimensions		
Exterior	84Wx67.0Hx102.0L inches (2,134x1,702x2,591mm)	
Interior	81.5Wx64.5Hx99.5L inches (2,070x1,638x2,527mm)	
Overall height on prime mover	102 inches (2,591 mm)	
Standard equipment	Includes access ladder, roof access steps, HMMWV mounting and pintle extension kits	
Tare weight		
Bare shelter (type I)	585 pounds (265.4 kg)	
Vehicle mounting kit	88 pounds (39.9 kg)	
Shelter payload	4,050 pounds (1,837 kg)	
Volume	285 Ft <sup>3</sup>	
Floor area: (including wheel wells)	56 Ft <sup>2</sup>	
Transportability	Ground mobility	MIL-M-8090, type V
	Air transport	Drive-on/back-off cargo aircraft
	Rail impact	Up to 8 mph
	Floor loading	65 psf overall, 500 psf local
	Helicopter lift	MIL-STD-209H
Environmental	Rain	Up to 5 inches per hour
	Temperature, storage	-70°F To +160°F / -56.6°C To 71.1°C
	Temperature, operating	-65°F To +125°F / -53.8°C To 51.6°C
	Humidity	Up to 100 percent
	Snow and ice	40 psf
	Wind	Up to 100 mph (160 kph) steady (120 mph [193 kph] gusts)
Heat transfer (BTU/Hr-Ft <sup>2</sup> -°F)	0.42	
EMI shielding	Minimum of 60dB attenuation or electrical, magnetic and plane waves in frequency range of 150KHz to 10GHz	
General information	Honeycomb sandwich panel construction: the fabrication of the unit utilizes aluminum-facing sheets hot-bonded to honeycomb alternative foam and beam construction available	
Increased mission capability	Rapid deployment Increased enclosure volume Mounted internal air transport Increased aircraft deployment efficiency	

**GENERAL DYNAMICS**

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