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*Joint Committee On
Tactical Shelters (JOCOTAS)*
**DEPARTMENT OF DEFENSE
STANDARD FAMILY OF TACTICAL
SHELTERS (RIGID/SOFT/HYBRID)**

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In accordance with Department of Defense (DoD) policy as stated in AR 70-59, OPNAVINST 3900.27, AFJI 61-106, and MCO 3920.5A, the services through the Joint Committee on Tactical Shelters (JOCOTAS) has approved a Standard Family of Tactical Shelters.

The shelters contained in this brochure are the only shelters authorized for military use.

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Please visit the DoD JOCOTAS website at
jocotas.natick.army.mil

See updates of this DoD JOCOTAS Shelter Brochure at
nsrdec.natick.army.mil/media/print/jocotas.pdf



**Tent, Extendable, Modular, Personnel
(TEMPER) Air-Supported —
used by Army's Force Provider Program**

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This brochure contains information on the Department of Defense (DoD) Standard Family of Tactical Shelters. The standard rigid wall, soft wall, and hybrid shelters shown in this brochure have been approved by the Joint Committee on Tactical Shelters (JOCOTAS) for Department of Defense (DoD) use.

JOCOTAS was formed in 1975 under Office of the Secretary of Defense (OSD) direction with the purpose to:

- Prevent the duplication of Tactical Shelter Research and Development.
- Eliminate the proliferation of non-standard tactical shelters in the DoD inventory.
- Maximize the usage of DoD Standard Family of Tactical Shelters.

Prior to the formation of JOCOTAS, 100+ rigid wall tactical shelter types existed among the Four Services which created a huge logistics burden for shelters. JOCOTAS has succeeded in reducing the standard family of rigid wall tactical shelters to 21 shelter types among the Four Services. Soft wall and hybrid shelters were added to JOCOTAS in 1995. JOCOTAS consists of two technical working groups (TWGs), Shelter Technology TWG and Shelter Integration TWG, that meet twice per year and principal/voting Service members that meet annually. Office of the Under Secretary for Defense (Acquisition, Technology & Logistics) has approval authority for JOCOTAS. Additional detailed JOCOTAS information is delineated in the 25 June 2010 OUSD-approved JOCOTAS Charter & Operating Procedures that are shown on pages 34-39. JOCOTAS Officers and Principal Voting Members are listed on pages 40-42. Other Points of Contact are listed on page 43.

Shelters developed by the Army, Air Force, Navy and Marine Corps are usable by more than one Service and make up the JOCOTAS approved DoD Standard Family of Tactical Shelters. The standard shelters contained in this brochure can be used by all Services. New requirements and technology advancements will likely result in additional shelters being added by JOCOTAS to the existing Standard Family of Tactical Shelters Listing.



General Information

Joint Committee on Tactical Shelters (JOCOTAS) — a DoD wide committee that brings together many organizations and individuals involved in soft wall, rigid wall and hybrid military tactical shelters. The purpose is to:

- a. Establish a DoD standard family of tactical shelters.
- b. Enforce the maximum use of the DoD standard family of tactical shelters.
- c. Actively advocate for the development and fielding of state of the art shelters and ancillary equipment.
- d. Share information and any available resources to eliminate duplication of shelter technology development efforts; working toward common solutions for identified problem areas.
- e. Establish standards for shelters to ensure structural and environmental performance, and compatibility with commercial and military transportation/material handling assets.
- f. Provide a forum for interaction between JOCOTAS and industry.

Tactical Shelter — A mobile, transportable structure designed for a functional requirement. It provides an environmentally controllable space for human habitation and use, and/or permanent equipment storage or operation. Tactical shelters shall be categorized as follows:

- a. Rigid Wall Shelters — pre-sized structures (non-expandable and expandable shelters) that are transported by land, sea, or air. These shelters require minimal site preparation and no specialized set-up
- b. Soft Wall Shelters — include air supported and frame supported fabric structures that are transported and then erected or assembled on site
- c. Hybrid Shelters — a combination of rigid and soft wall shelters that are transported and erected or assembled on site

Structures not considered tactical shelters and outside the scope of the DoD Standard Family of Tactical Shelters are:

- Containers used exclusively for cargo transportation, e.g. milvans, conex containers, bulk general purpose cargo, and refrigerated containers
- Structures which cannot be redeployed in its original shipping configuration, are designed as permanent single use item, and require non-organic elements to deploy
- Vans
- Enclosed semi-trailers

Tactical Shelter Family means:

- Maximum standardization for DoD shelters and continue to meet the needs of the Services.
- Rapid worldwide deployment of a tactical force featuring ISO (International Organization for Standardization) handling, structural and dimensional standards, where applicable, for container vessel shipment.
- Lower long term deployment costs by recovering deployed structures for future uses, eliminating wasted dollars on permanent construction which is later abandoned.
- Rugged qualified shelters that stand up to rough use in the field and climates all over the world.

DoD Standard Family of Rigid Wall Tactical Shelters Listing

This list has been approved by the Joint Committee on Tactical Shelters (JOCOTAS). Based on the recommendations of the JOCOTAS group, this list may have future additions or deletions. Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations. Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

SHELTER NAME	NATIONAL STOCK NUMBER (NSN)
AIR FORCE	
Expandable, S-530 A/G (60 HZ)	5411-01-280-2909EJ
ARMY	
ISO, Shelter, Tactical, Nonexpandable, S-781/G (60 Amp)	5411-01-136-9837
ISO, Shelter, Tactical, Nonexpandable, S-782/G (100 Amp)	5411-01-294-6390
Shelter, Electrical Equipment, S-280(C)/G, Unshielded	5411-01-092-0892
Shelter, Electrical Equipment, S-280(C)/G, EMI Shielded	5411-01-304-3069
Shelter, Electrical Equipment, Lightweight, S-788/G Type I	5411-01-473-5051
Shelter, Electrical Equipment, Lightweight, S-788/G Type III	5411-01-473-5055
ISO, Shelter, Tactical, Expandable, One Side, S-783/G (60 Amp)	5411-01-124-1377
ISO, Shelter, Tactical, Expandable, One Side, S-784/G (100 Amp)	5411-01-295-3433
ISO, Shelter, Tactical, Expandable, Two Side, S-785/G (60 Amp)	5411-01-136-9838
ISO, Shelter, Tactical, Expandable, Two Side, S-786/G (100 Amp)	5411-01-294-9866
Modular Extendable Rigid Wall Shelter (MERWS)	5411-01-312-9084
NAVY	
ISO, Basic Mobile Facility A	5411-01-355-4322
ISO, Basic Mobile Facility B	5411-01-355-4323
ISO, Side Opening Mobile Facility A	5411-01-355-4320
ISO, Side Opening Mobile Facility B	5411-01-355-4321
ISO, Side Opening Mobile Facility B (Modified 80" Door)	5411-01-355-4319
ISO, Side Opening Mobile Facility C	5411-01-355-6566
ISO, Integration Unit Mobile Facility	5411-01-355-4318
ARMY (LEGACY)	
Shelter, Electrical Equipment, S-250/G, Unshielded	5411-00-999-4935
Shelter, Electrical Equipment, S-250/G, EMI Shielded	5411-00-489-6076
MARINE CORPS (LEGACY)	
ISO, 10 Foot, General Purpose	5411-01-287-4341
ISO, 10 Foot, EMI Shielded	5411-01-206-6079
ISO, 20 Foot, General Purpose	5411-01-209-3451
ISO, 20 Foot, EMI Shielded	5411-01-206-6078
ISO, Knockdown	5411-01-206-6077

DoD Standard Family of Soft Wall and Hybrid Shelters Listing

This list has been approved by the Joint Committee on Tactical Shelters (JOCOTAS). Based on the recommendations of the JOCOTAS group, this list may have future additions or deletions. Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations. Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

SHELTER NAME	NATIONAL STOCK NUMBER (NSN)
AIR FORCE	
Dome Shelter (BEAR Base) 4K	5410-01-455-2004EJ
Dome Shelter (BEAR Base) 8K	5410-01-494-5130EJ
Large Area Maintenance Shelter (BEAR Base)	5410-01-533-7395EJ
Small Shelter System (Green/Tan)	5419-01-465-3024EJ/ 5419-01-465-3025EJ
Medium Shelter System (Green/Tan)	5419-01-465-3023EJ/ 5419-01-465-3019EJ
ARMY	
Tent, Frame-Type Expandable, 16 Ft x 16 Ft	8340-00-782-3232
Modular Command Post System (Camo Green 483/ Desert Tan 459)	8340-01-323-2454/ 8340-01-334-7529
Soldier Crew Tent, Type I	8340-00-259-0084
Soldier Crew Tent, Type II	8340-00-259-1481
Lightweight Extreme Weather Shelter (LEWS), 3-Man	8340-01-429-5932
Tent, Hexagonal, Lightweight, M-1950	8340-00-269-1372
Tent, Arctic, 10-man	8340-00-262-3685
Tent, Extendable, Modular, Personnel (TEMPER) (Green/Tan)	Numerous NSNs (see page 22)
Tent, Extendable, Modular, Personnel (TEMPER) Air-Supported Tent (Green/Tan)	Numerous NSNs (see page 22)
Large Area Maintenance Shelter 75'W x 31'H x 190'L	5410-01-334-3158
Large Area Maintenance Shelter 65'W x 31'H x 122'L	5410-01-333-9299
Modular General Purpose Tent System (MGPTS) Small	8340-01-456-3633
Modular General Purpose Tent System (MGPTS) Medium	8340-01-456-3628
Modular General Purpose Tent System (MGPTS) Large	8340-01-456-3674
Lightweight Maintenance Enclosure (LME) Type I (Green/Desert Tan)	8340-01-456-3637/5410-01-512-6865
Lightweight Maintenance Enclosure (LME) Type II (Green/Desert Tan)	5410-01-512-6867/5410-01-512-6868
MARINE CORPS	
Combat Tent, 2-Man	8340-01-452-5919
Extreme Cold Weather Shelter (ECWS), 4-Man	8340-01-406-9299
Modular General Purpose Tent System (MGPTS) Type 3 Enhanced Small (Camo Green)	8340-01-513-6093
MGPTS Type 3 Enhanced Medium (Camo Green)	8340-01-512-0240
MGPTS Type 3 Enhanced Large (Camo Green)	8340-01-512-9461
MGPTS Type 3 Enhanced Small (Tan)	8340-01-512-0243
MGPTS Type 3 Enhanced Medium (Tan)	8340-01-513-6094
MGPTS Type 3 Enhanced Large (Tan)	8340-01-512-9465
Expeditionary Shelter System (ESS) Small (Green/Tan)	8340-01-545-5875/8340-01-545-5888
Expeditionary Shelter System (ESS) Medium (Green/Tan)	8340-01-545-5869/8340-01-545-5884
AIR FORCE (LEGACY)	
Dome Shelter (BEAR Base) 4K	5410-01-363-0090EJ
Dome Shelter Extension (BEAR Base)	5410-01-500-7537
ARMY (LEGACY)	
Tent, General Purpose, Small	8340-00-470-2335
Tent, General Purpose, Medium (Camo Green 483/ Desert Tan 459)	8340-00-482-3963/ 8340-01-329-7478
Tent, General Purpose, Large (Camo Green 483/ Desert Tan 459)	8340-00-470-2342/ 8340-01-329-7479
Tent, Shelter Half	8340-00-753-6435
Tent, Hexagonal, Lightweight, M-1950	8340-00-269-1372
Tent, Arctic, 10-man	8340-00-262-3685
Tent, Frame-Type, Insulated Sectional, 16 Ft x 16 Ft	8340-00-262-2399
Tent, Frame-Type, Maintenance, Medium, Light Metal	8340-00-951-6419
MARINE CORPS (LEGACY)	
Tent, Command Post, M-1945	8340-00-269-1370

JOCOTAS Specialty Items Listing

This list has been approved by the Joint Committee on Tactical Shelters (JOCOTAS). Based on the recommendations of the JOCOTAS group, this list may have future additions or deletions. Note items listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

SPECIALTY ITEM NAME	NATIONAL STOCK NUMBER (NSN)
ARMY	
Cargo Bed Covers (CBC) Type IAI, Camouflage / Desert Sand	5411-01-548-5065 / 5411-01-548-5067
CBC Type IIAI, Camouflage / Desert Sand	5411-01-548-5068 / 5411-01-548-5069
CBC Type IIIAI, Camouflage / Desert Sand	5411-01-559-8740 / 5411-01-559-8739
CBC Type IVAI, Camouflage / Desert Sand	5411-01-559-8738 / 5411-01-559-8741
Solar Shade, Type I	5410-01-519-7041
Solar Shade, Type II	5410-01-519-7185

Transportability and deployment are two main advantages of using DoD Standard Family Shelters. DoD Standard Family Shelters can be transported by land, air, or sea and deployed quickly.

All standard shelters are transportable using military/commercial trucks, railcars, roll-on/roll-off ships and military cargo aircraft. Additionally, depending on the particular shelter's requirements, some shelters can be transported via container ships, dolly sets/mobilizers and/or helicopters.

Standard shelters are rapidly and easily erectable on site with no specialized equipment/tools and minimal, if any, site preparation.



High Mobility Multipurpose Wheeled Vehicle (HMMWV)



M1022A1 ISO Shelter Dolly Set



Palletized Load System (PLS) Truck



Container Ship



5-Ton Truck



Cargo Aircraft



Railcar



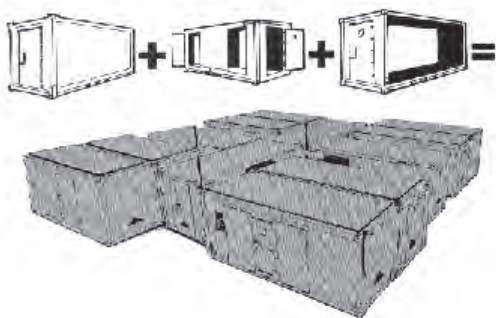
Helicopter



Truck - Flatbed Trailer



Fixed Wing Aircraft



A wide variety of complexing arrangements can be made using standard shelters. Joining corridors/passageways/bootwalls are available to connect basic shelter units to other basic shelter units and tents.

Navy Mobile Facility Complexing



ISO to ISO Passageway (Army)



ISO to TEMPER Passageway (Army)



Deployable Medical Systems Field Hospital

Some of the system configurations that are possible using standard shelters include command posts, field hospitals, dental facilities, supply depots, maintenance support facilities, food services field feeding systems, administrative/billeting quarters, and logistic support. Shelters can also double as shipping containers for equipment and/or systems used within. Below are some typical system configurations using standard shelters:



Field Kitchen



Maintenance Shop Set



Modular Print System



Battalion Aid Station



Corps Command Post



Hospital Operating Room

Rigid Wall Shelters (Non-Expandable)

Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

S-788/G, SHELTER, ELECTRICAL EQUIPMENT, LIGHTWEIGHT (ARMY)

- **Description:** Replacement for S-250/G shelter designed for housing C4I battlefield systems.
- **Dimensions:** Interior 8'-3.5"L × 6'-9.5"W × 5'-4.5"H, Exterior 8'-6"L × 7'W × 5'-7"H
- **S-788/G Versions:**
 - Type I - Basic Shelter, Empty: NSN 5411-01-473-5051
 - Type III - Basic Shelter w/Tunnel Only: NSN 5411-01-473-5055
- **Weight:** Type I - 608 lbs., Type III - 643 lbs.
- **Payload:** 3300 lbs.
- **Construction:** Honeycomb Core
- **Prime Mover:** M1097/M1113 HMMWVs
- **EMI Protection:** 60 dB
- **LIN:** S01563



S-788/G Mounted on HMMWV (Army)

S-280C/G, SHELTER, ELECTRICAL EQUIPMENT (ARMY)

- **Description:** Mobile tactical shelter designed for housing communications & electronics equipment.
- **NSNs:** Unshielded NSN 5411-01-092-0892, EMI Shielded NSN 5411-01-304-3069
- **Dimensions:**
 - Interior 11'-6"L × 6'-10"W × 6'-5"H
 - Exterior (Envelope) 12'-3"L × 7'-3"W × 7'-3"H
 - Exterior (Skin to Skin) 11'-10"L × 7'-3"W × 6'-10"H
- **Weight:** 1400 lbs.
- **Payload:** 7100 lbs.
- **Construction:** Foam & Beam
- **Prime Mover:** 5 Ton Truck
- **EMI Modification Kit:** NSN 5410-00-937-5248
- **EMI Protection:** 60 dB
- Includes Cable Lift & Tie Down Assembly
- **LIN:** S01495



TOP: S-280C/G (ARMY)
BOTTOM: S-280C/G Mounted on 5-Ton Truck

ISO SHELTER, TACTICAL, NONEXPANDABLE (ARMY)

■ **Description:** Non-Expandable 20 Ft ISO Shelter.

■ **Dimensions:** Interior 19'-1"L x 7'-7"W x 7'-1"H,
Exterior 19'-11"L x 8'W x 8'H

■ **Non-Expandable ISO Versions:**

- S-781/G - 60 Amp Service:
NSN 5411-01-136-9837
- S-782/G - 100 Amp Service:
NSN 5411-01-294-6390

■ **Weight:** 3900 lbs.

■ **Payload:** 11,100 lbs.

■ **Gross Weight:** 15,000 lbs.

■ **Construction:** Honeycomb Core

■ **LIN:** S00860

■ Includes Lights, Power Entrance Panel, Circuit Breaker Panel, Duplex Receptacles, Leveling Jacks

■ Single Personnel Door on One End



**S-781/G, S-782/G (Army)
Non-Expandable Tactical ISO Shelter**

FAMILY OF NAVAIR MOBILE FACILITY (MF) ISO SHELTERS (NAVY)

- **Description:** Non-Expandable 20 Ft ISO Shelter
- **Dimensions:** Interior 19'-¼"L × 7'-6"W × 7'-½"H, Exterior 19'-11"L × 8'W × 8'H
- **Weight:** 5235 lbs.
- **Payload:** 14765 lbs.
- **Gross Weight:** 20,000 lbs.
- **Service Life:** 20 Years
- **Construction:** Foam & Beam
- **Exterior Color:** Glossy White Polyurethane
- Can Easily Be Integrated with Environmental Control Units and Mission Equipment
- **See Following Page for Characteristics of Each MF Shelter**



Basic Mobile Facility (BMF) A (Navy)



Side Opening MF Unit A (Navy)



Side Opening MF Unit B (Navy)



**Side Opening MF Unit B (Navy) with
Modified 80" Door**



Side Opening MF Unit C (Navy)



Integration Unit (INU) MF (Navy)

BASIC MOBILE FACILITY TYPE A (NAVY)

- **NSN:** 5411-01-355-4322
- Can be Complexed from Both Ends.
- Doors: 4'W × 6'-4"H (Both Ends of MF)
- Wired for 60 Hz, 100 Amp Power. Power can be Transferred to Another MF.
- Capable of Transferring 400 Hz Power.
- Heating/Cooling Provided by 36,000 BTUH ECU Integrally Mounted Through Side of MF.
- Emergency Lighting Capability.

BASIC MOBILE FACILITY TYPE B (NAVY)

- **NSN:** 5411-01-355-4323
- Similar to Basic MF Type A Except Wired for Both 60 Hz and 400 Hz Power.

SIDE OPENING MF TYPE A (NAVY)

- **NSN:** 5411-01-355-4320
- Similar to Basic MF Type B with Following Exceptions:
 - Provisions for Installation of Two 36K BTUH or 60K BTUH ECUs on One Side.
 - Other Side Removable to Allow Complexing with Side Opening MF Type B, Side Opening MF Type C, or Side Opening MF Type B (Modified)
 - Can be Complexed at End Doors.

SIDE OPENING MF TYPE B (NAVY)

- **NSN:** 5411-01-355-4321
- Similar to Side Opening MF Type A w/ Following Exceptions:
 - No End Doors
 - Can Only be Complexed with Another Side Opening MF
 - Access Before Complexing Provided Through a Non-Standard Personnel Door (32"W × 66"H)
 - Designed to House Automatic Test Equipment
- Provisions for 200 Amp Input Capability

SIDE OPENING MF TYPE B (MODIFIED) (NAVY)

- **NSN:** 5411-01-355-4319
- Similar to Side Opening MF Type B Except it has 80-Inch Wide Double Doors at One End to Allow Induction of Large Items for Repair.

SIDE OPENING MF TYPE C (NAVY)

- **NSN:** 5411-01-355-6566
- Both Sides Removable; Can be Complexed with Side Opening MFs. Increase Workspace.
- No Installed Equipment or ECU Provisions.
- Access Before Complexing Provided by Normal Sized End Door

INTEGRATION UNIT (INU) MF (NAVY)

- **NSN:** 5411-01-355-4318
- Used as a Junction for up to Six Additional MFs; Two on One Side and Four on Other Side
- End Doors Complexible to Other INUs
- Receives 200 Amp, 60 Hz and 100 Amp, 400 Hz Power for Distribution to Attached MFs
- Heating/Cooling Provided By 10K BTUH Window Type Heat Pump Mounted to Side Wall



BMF A (Navy)



BMF B (Navy)



Side Opening MF Unit A (Navy)



Side Opening MF Unit B (Navy)



Side Opening MF Unit B (Navy) w/ Modified 80" Door



Side Opening MF Unit C (Navy)



Integration Unit (INU) MF (Navy)

Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

SHELTER, TACTICAL, EXPANDABLE, ONE SIDE (ARMY)

- **Description:** One Side Expandable ISO Shelter
- **Dimensions:** Exterior 19'-11"L × 8'W × 8'H, Interior (Transport Mode) 19'-1"L × 7'W × 7'-1"H, Interior (Expanded) 18'-4"L × 14'-6"W × 7'-1"H
- **One Side Expandable ISO Versions:**
 - S-783/G - 60 Amp Service: NSN 5411-01-124-1377
 - S-784/G - 100 Amp Service: NSN 5411-01-295-3433
- **Weight:** 5400 lbs.
- **Payload:** 9600 lbs.
- **Gross Weight:** 15,000 lbs.
- **Construction:** Honeycomb Core
- **Erection:** Four Soldiers - 20 Minutes
- Removable Panels Allow Attachment of ECU Ducting and Complexing Passageways
- Includes Lights, Breaker Panel, Power Entrance Panel, Duplex Receptacles, Leveling Jacks
- **LIN:** S01291



S-783/G, S-784/G (Army)

SHELTER, TACTICAL, EXPANDABLE, TWO SIDE (ARMY)

- **Description:** Two Side Expandable ISO Shelter
- **Dimensions:** Exterior 19'-11"L × 8'W × 8'H, Interior (Transport) 19'-1"L × 6'-5"W × 7'-1"H, Interior (Expanded) 18'-4"L × 21'-6"W × 7'-1"H
- **Two Side Expandable ISO Versions:**
 - S-785/G - 60 Amp Service: NSN 5411-01-136-9838
 - S-786/G - 100 Amp Service: NSN 5411-01-294-9866
- **Weight:** 6900 lbs.
- **Payload:** 8100 lbs.
- **Gross Weight:** 15,000 lbs.
- **Construction:** Honeycomb Core
- Removable Panels Allow Attachment of ECU Ducting and Complexing Passageways
- **Erection:** Four Soldiers - 30 Minutes
- Includes Lights, Breaker Panel, Power Entrance Panel, Duplex Receptacles, Leveling Jacks
- **LIN:** S01359



S-785/G, S-786/G (Army)

EXPANDABLE, S-530 A/G (AIR FORCE)

- **Description:** Expandable Shelter (Two Shelters Expands to Volume of Three Shelters - 3:2)
- **NSN:** 5411-01-280-2909EJ
- **Dimensions:**
 - Interior (Non-Expanded) 11'-5"L x 6'-7"W x 6'-9"H
 - Interior (Expanded) 11'-5"L x 20'-4"W x 6'-9"H, Exterior 12'-2"L x 7'-3"W x 7'-6"H
- **Weight:** 4500 lbs.
- **Payload:** 2000 lbs.
- **Gross Weight:** 6500 lbs.
- **Construction:** Nomex Honeycomb Core
- Two Shelters are Joined for Expanded Mode
- **Erection:** Six Soldiers - 45 Minutes
- **EMI Protection:** 60 dB



**S-530 A/G Non-Expanded
(Air Force)**

MODULAR EXTENDABLE RIGID WALL SHELTER (MERWS) (ARMY & AIR FORCE)

- **Description:** Expansion Kit for Army Standard Expandable ISO Shelter.
- **NSN:** 5411-01-312-9084
- Entire MERWS Kit Packs Within ISO Shelter for Transport and Storage
- **Weight:** MERWS Kit Only - 7500 lbs.,
 - Attached to 1-Side Exp ISO - 13,200 lbs.,
 - Attached to 2-Side Exp ISO - 14,700 lbs.
- **Unobstructed Floor Space:**
 - Attached to 1-Side Exp ISO - 1000 sq. ft.,
 - Attached to 2-Side Exp ISO - 1150 sq. ft.
- **Dimensions:**
 - Attached to 1-Side Exp ISO - 53'L x 20'W x 8'H
 - Attached to 2-Side Exp ISO - 60'L x 20'W x 8'H
- **Erection:** Four Soldiers - Four Hours Using Repetitive Sequence (Includes Unpacking from ISO Shelter)



**Modular Extendable Rigid Wall Shelter
(MERWS) Kit**



MERWS Interior



MERWS Packed Within ISO Shelter

Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

2-MAN COMBAT TENT (MARINE CORPS)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-01-452-5919
- **Purpose/Use:** Back Packable Tent Satisfies Marine Corps Requirement for Use in Desert and Temperate Conditions
- **Dimensions:** 34"H
- **Floor Area:** 39 sq. ft. min (10 sq. ft. Vestibule)
- **Weight:** 7 lbs.
- **Cube:** 0.5 cu. ft.
- **Erection:** Two Soldiers - Five Minutes
- **Color:** Desert Tan, Camouflage Green
- Replacement to Shelter Half Tent



**2-Man Combat Tent
(Marine Corps)**

LIGHTWEIGHT EXTREME WEATHER SHELTER (LEWS), 3-MAN (ARMY)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-02-429-5932
- **Purpose/Use:** Back Packable Tent Satisfies Special Operations Forces (SOF) Requirement for Use in Extreme Weather Conditions
- **Environment:** Arctic, Desert, Mountain Regions
- **Dimensions:** 45"H
- **Floor Area:** 45 sq. ft. min (10 sq. ft. min Vestibule)
- **Weight:** 12 lbs.
- **Cube:** 1.1 cu. ft.
- **Erection:** Two Soldiers - Five Minutes
- **Color:** Desert Tan, Arctic White, Woodland Green
- Camouflage Capability



**3-Man Lightweight Extreme
Weather Shelter (LEWS) (Army)**

EXTREME COLD WEATHER SHELTER (ECWS), 4-MAN (MARINE CORPS)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-01-406-9299
- **Purpose/Use:** Back Packable Tent Satisfies Marine Corps Requirement for Use in Arctic and Temperate Weather Conditions
- **Environment:** Arctic and Temperate Regions
- **Dimensions:** 60"H
- **Floor Area:** 60 sq. ft. min (60 sq ft min Vestibule)
- **Weight:** 18 lbs.
- **Cube:** 1.6 cu. ft.
- **Erection:** Two Soldiers - Five Minutes
- **Color:** Arctic White, Woodland Camo Green



**4-Man Extreme Cold Weather
Shelter (ECWS) (Marine Corps)**

TENT, HEXAGONAL, LIGHTWEIGHT, M-1950 (5-MAN ARCTIC) (ARMY)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-00-269-1372
- **Purpose/Use:** Provide Shelter for Five Men and Their Equipment in Extremely Cold, or Cold-Wet Conditions
- **Dimensions:** 6'-7"L × 2'H to 8'-6"H (Eave to Peak)
- **Floor Area:** 113.2 sq. ft.
- **Weight:** 56 lbs.
- **Cube:** 3.8 cu. ft.
- **Erection:** Five Soldiers - 15 Minutes
- **Fabric:** Cotton
- **Color:** Olive Drab
- **LIN:** V49674



M-1950 Lightweight Hexagonal (5-Man Arctic) Tent (Army)

SOLDIER CREW TENT (ARMY)

- **Type of Shelter:** Frame Supported
- **NSNs:** Type I NSN 8340-01-359-0084, Type II NSN 8340-01-359-1481
- **Purpose/Use:** Quickly Erectable Tent for Combat Vehicle Crews
- **Dimensions:** 10'-10"L × 10'-10"W × 59"H
- **Floor Area:** 120 sq. ft.
- **Weight:** 75 lbs.
- **Cube:** 6 cu. ft.
- **Erection:** Two Soldiers - Five Minutes
- Reversible Overcovers
- Cold Weather Cotton Liner Available
- **SCT Types:** Type I (Green/Tan), Type II (Green/White)



Soldier Crew Tent (SCT) (Army)

MODULAR COMMAND POST SYSTEM (MCPS) (ARMY)

- **Type of Shelter:** Frame Supported
- **NSNs:** Green NSN 8340-01-323-2454, Tan 8340-01-334-7529
- **Purpose/Use:** Command Posts in All Climates
- **Dimensions:** 11'L × 11'W × 7'H to 9'H (Eave to Peak)
- **Floor Area:** 121 sq. ft.
- **Weight:** 482 lbs. (Complete Tent System)
- **Cube:** 30 cu. ft.
- **Erection:** Two Soldiers - 20 Minutes
- **Fabric:** Polyester Duck
- **Color:** Camo Green 483, Desert Tan 686A
- **LIN:** C40496



Modular Command Post System (Army)

- Includes Two Field Tables, Four Mapboards, Two Fluorescent Lights, Removable Walls for Complexing to Other MCPS, Rain Gutters.

TENT, ARCTIC, 10-MAN (ARMY)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-00-262-3685
- **Purpose/Use:** Provide Shelter for Ten Soldiers and Their Equipment in Arctic Weather Conditions
- **Dimensions:** 8'-9"L x 3'H to 8'-6"H (Eave to Peak)
- **Floor Area:** 200 sq. ft.
- **Weight:** 76 lbs.
- **Cube:** 7.3 cu. ft.
- **Erection:** Six Soldiers - 27 Minutes
- **Fabric:** Cotton
- **Color:** Olive Drab
- **LIN:** V51729



10-Man Arctic Tent (Army)

EXPEDITIONARY SHELTER SYSTEM (ESS) SMALL (MARINE CORPS)

- **Type of Shelter:** Folding Frame
- **NSN:** 8340-01-545-5875(Green)/8340-01-545-5888 (Tan)
- **Purpose/Use:** The ESS Small will provide protection from natural environment to the Marine Operating Forces for use in varied mission roles (i.e., Command and Control, Administration). The ESS Small and ESS Medium replaces the legacy Command Post shelters.
- **Dimensions:** 15'L x 14'W x 8'H
- **Weight:** 313 lbs
- **Floor Areas:** 210 sq. ft.
- **Fabric:** 11 oz. Vinyl Outer Cover, 7 oz. vinyl Inner Liner
- **Color:** Green or Tan
- Liner is pre-wired (electrical), pre-ducted, pre-floored
- Average deployment time is 8 minutes



Expeditionary Shelter System (ESS) Small (Marine Corps)

TENT, FRAME-TYPE, EXPANDABLE, 16 FT *16 FT (ARMY)

- **Type of Shelter:** Frame Supported
- **NSN:** 8340-00-782-3232
- **Purpose/Use:** Division Tactical Operations Center, Briefings
- **Dimensions:** 16'L x 16'W x 6'H to 8'-6"H (Eave to Peak)
- **Floor Area:** 256 sq. ft.
- **Weight:** 400 lbs.
- **Cube:** 60 cu. ft.
- **Erection:** Four Soldiers - 45 Minutes
- **Fabric:** Polyester Duck
- **Color:** Desert Tan 459, Camo Green 483



16 Ft x 16 Ft Frame Type Expandable Tent (Army)

EXPEDITIONARY SHELTER SYSTEM (ESS) MEDIUM (MARINE CORPS)

- **Type of Shelter:** Folding Frame
- **NSN:** 8340-01-545-5869(Green)/8340-01-545-5884(Tan)
- **Purpose/Use:** The ESS Medium will provide protection from natural environment to the Marine Operating Forces for use in varied mission roles (i.e., Command and Control, Administration, Medical). The ESS Medium and ESS Small replaces the legacy Command Post shelters.
- Habitable, Rapid Deploying, Lightweight, Compact
- **Dimensions:** 25'L x 18'W x 8'H
- **Weight:** 527 lbs.
- **Floor Area:** 450 sq. ft.
- **Fabric:** 11 oz. Vinyl Outer Cover, 7 oz. Vinyl Inner Liner
- **Color:** Tan or Green
- Liner is pre-wired (electrical), pre-ducted, pre-floored
- Average deployment time – 12 minutes



**Expeditionary Shelter System (ESS)
Medium (Marine Corps)**

MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS TYPE 3 ENHANCED) (MARINE CORPS)

- **Type of Shelter:** Internal Arch with Clear Architecture which provides a clear span interior usable space. Dual frame use with Y-Pole version
- **NSNs:**
 - Internal Arch Camouflage Green: Small 8340-01-513-6093, Medium 8340-01-512-0240, Large 8340-01-512-9461
 - Desert Tan: Small 8340-01-512-0243, Medium 8340-01-513-6094, Large 8340-01-512-9465
- **Purpose/Use:** Billeting, Field Services, General Purpose
- **Dimensions:**
 - Small: 18' x 18' x 7'H to 11' 3" (Eave to Peak)
 - Medium: 18' x 36' x 7'H to 11' 3"
 - Large: 18' x 54' x 7'H to 11' 3"
- Lengths Can Be Extended in 18' Increments by Adding an Intermediate Module. All Sizes can be Complexed at Sides and/or Ends by Using a Standard TEMPER Vestibule.
- **Floor Area:**
 - Small: 324 sq. ft.
 - Medium: 648 sq. ft.
 - Large: 972 sq. ft.
- **Fabric:** Polyester
- **Color:** Camo Green 483 or Desert Tan 459



**TOP: MGPTS Type 3 Enhanced
Exterior (Marine Corps),
MIDDLE: Interior With Liner
BOTTOM: Interior Without Liner**

TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (ARMY)

- **Type of Shelter:** Frame Supported
- **NSNs:** 32 NSNs; 16 TEMPER Types (I thru XVI) in either Color (ex. Type IV, Personnel, Green NSN 8340-01-196-6272, Type IV, Tan NSN 8340-01-185-2628)



**32-Foot Long TEMPER Type IV
(Army)**

- **Purpose/Use:** Field Feeding, Medical Facilities, Billeting
- **Environment:** All Climates
- **Dimensions:** 8'L × 20'-6"W × 6'-9"H to 10'H (One Section) (Eave to Peak)
- Length Can Be Extended in 8 ft. Increments.
- **Floor Area:** 640 sq. ft. (Type IV, Personnel) (Four Sections)
- **Weight:** 1328 lbs. (Type IV)
- **Cube:** 123 cu. ft. (Type IV)
- **Erection:** Five Soldiers - 40 Minutes (Type IV)
- **Fabric:** Polyester Duck
- **Color:** Camo Green 483, Desert Tan 686A
- **Features:** Tent Fly to Reduce Solar Loading, Fluorescent Lights, Electrical Power Distribution, Air Distribution Plenums for Heating/Cooling, Entrance Vestibule, Insulated Floor Capability Available

TEMPER AIR-SUPPORTED TENT (ARMY)

- **Type of Shelter:** Air Supported
- **NSNs:** Multiple Configuration Available (ex. Type XL1, Tan NSN 8340-01-558-8707, Type XL1, Green NSN 8340-01-558-8706); Complete Listing Available. Contact NSRDEC Shelter Liaison, 508-233-4347
- **Purpose/Use:** Base Camps, Field Feeding, Medical Facilities, Billeting
- **Environment:** All Climates
- **Dimensions:** 32'L × 20'-6" W
- Length can be Extended in 32 ft. Increments
- **Floor Area:** 640 sq. ft.
- **Erection:** Four Soldiers - 15 Minutes
- **Fabric:** PVC Coated Polyester
- **Color:** Desert Tan 686A, Camo Green 483
- **Features:** Quick Set Up Using Compressor to Erect Airframe; Compressor Supplied; Temper Vestibule System Supplied; Supplied with Fabric Floors, Liners, Plenum System; Supplied with Lighting and Electrical Distribution System; All Sizes can be Complexed at Sides and/or Ends by Using a Standard TEMPER Vestibule



Airbeam TEMPER Tent

MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS) (ARMY)

- **Type of Shelter:** Pole Supported (Type I) & External Frame Supported (Type II)
- **NSNs:**
 - Type I Small, Green/Tan 8340-01-456-3633/8340-01-491-1507
 - Type I Medium, Green/Tan 8340-01-456-3628/ 8340-01-491-1515
 - Type I Large, Green/Tan 8340-01-456-3674/8340-01-491-1479
- **Purpose/Use:** Billeting and Field Services
- More Versatile and Habitable Replacement to GP Small, Medium, and Large Tents
- **Dimensions:** 18'L × 18'W × 7'H to 11'3"H (Eave to Peak)
- Length Can Be Extended in 18 ft. Increments by Adding Intermediate Modules
- **Floor Area:** 648 sq. ft. (MGPTS Equivalent to GP Medium)
- **Fabric:** 13.5 oz. (Max) Polyester Duck (Tensioned System)
- **Color:** Desert Tan 686A, Camo Green 483



Modular General Purpose Tent System (MGPTS) (Army)

SMALL SHELTER SYSTEM (AIR FORCE)

- **Type of Shelter:** Frame supported
- **NSNs:** Green 5419-01-465-3024EJ, Tan 5419-01-465-3025EJ
- **Purpose/Use:** Billeting, general purpose
- **Environment:** Worldwide
- **Dimensions:** 20 × 32.5 ft.
- **Floor Area:** 650 sq. ft.
- **Weight:** 1250 lbs. basic shelter system (includes shelter, membrane floor, liner, electrical, container)
- **Cube:** 119 cu. ft. for container (includes basic shelter system plus Mobility Readiness Spare Package)
- **Erection:** Four men less than one hour
- **Dismantle/repack:** Four men less than 45 minutes
- **Fabric:** 13.5 oz. PVC coated polyester
- **Color:** Camouflage Green or Desert Tan
- Transported in individual composite container, 4 to a 463L pallet
- Includes 3.5-ton Environmental Control Unit, 611 lbs.
- 42 cu. ft. (airlifted separately, 12 to a 463L pallet)



**BEAR Program - Small Shelter (SS)
(Air Force)**

BEAR PROGRAM - MEDIUM SHELTER (MS) (AIR FORCE)

- **Type of Shelter:** Frame Supported
- **NSNs:** Tan 5419-01-465-3019EJ, Green 5419-01-465-3023EJ
- **Purpose/Use:** General Purpose, (Communication, Supply, Flight line & Vehicle Maintenance)
- **Environment:** Worldwide (-60° to 125°)
- **Dimensions:** 52'L × 29.5'W × 15' H
- **Floor Area:** 1500 sq. ft.
- **Weight:** 3,940 lbs
- **Cube:** 224 cu. ft. packed container
- **Erection:** 6 people 4 hrs
- **Fabric:** 16.5 oz. PVC coated polyester
- **Color:** Desert tan or camouflage green



**BEAR Program - Medium Shelter
(MS) (Air Force)**

RAPID DEPLOYMENT BEAR SHELTER SYSTEM (DOME SHELTER) (AIR FORCE)

- **Type of Shelter:** Frame Supported
- **NSN:** 5410-01-363-0090
- **Purpose/Use:** Primary - Warehouses/Storage, Secondary - Aircraft Hangars, Maintenance
- **Environment:** Desert, Temperate, Tropical, and Arctic Conditions
- **Dimensions:** 120'L × 65'W × 10'H to 24'H (Eave to Peak) - Basic 4000 sq. ft.
- **Floor Area:** 4000 to 8000 sq. ft. (Length Can Be Extended Using 14 Ft Modules)
- **Weight:** Shelter Only (4000 sq. ft.) - 28,660 lbs., Shelter w/ Container - 33,070 lbs.
- **Cube:** 1500 cu. ft. (4000 sq. ft.)
- **Erection:** Eight People - 32 Hours (No Special Tools)
- **Dismantle/Repack:** Eight Soldiers - 26 Hours
- **Fabric:** PVC Coated Fabric Membrane
- **Color:** Desert Tan, Olive Drab, Camouflage
- Transported Within Three BEAR Shipping/Storage Containers
- Includes Electrical and Lighting



**TOP: BEAR Program - Dome
Shelter (Air Force), BOTTOM:
Interior View Aircraft Hangar**

Note shelters listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) (ARMY)

- **Type of Shelter:** Frame Supported
- **NSN:**
 - Type I, Green/Desert Tan 8340-01-456-3637/5410-01-512-6865
 - Type II, Green/Desert Tan 5410-01-512-6867/5410-01-512-6868
- **Purpose/Use:** Lightweight, Mobile Repair Shelter for Tracked & Wheeled Vehicles Across the Battlefield Under All Climatic Conditions
- **Dimensions:** 32'L x 24'W x 13.75'H to 16.5'H (Eave to Peak)
- **Floor Area:** 768 sq. ft.
- **Weight:** 1332 lbs. (1659 lbs Packed)
- **Cube:** 109 cu. ft.
- **Erection:** Six Man-Hours
- **LIN:** T49947
- Replacement to Standard Maintenance Tent
- Provides Blackout Capability



TOP: Lightweight Maintenance Enclosure (LME) (Army)

LARGE AREA MAINTENANCE SHELTER (ARMY)

- **Type of Shelter:** Frame Supported
- **NSNs:**
 - Clamshell Buildings Inc. - NSN 5410-01-334-3158
 - Canvas Specialties Inc. - NSN 5410-01-333-9299
- **Purpose/Use:** Large Area Maintenance/Repair Shelter for Helicopters, Tanks, and Wheeled Vehicles
- **Dimensions:**
 - Clamshell - 190'L x 75'W x 31'H (Length is Modular in 12.5-ft. Increments)
 - Canvas Specialties - 122'L x 65'W x 31'H (Length is Modular in 15-ft. Increments)
- **Floor Area:**
 - Clamshell - 12,500 sq. ft.
 - Canvas Specialties - 6700 sq. ft.
- **Shelter Weight:**
 - Clamshell - 26,700 lbs.
 - Canvas Specialties - 19,000 lbs.
- **Shipping Weight:**
 - Clamshell - 30,000 lbs.
 - Canvas Specialties - 25,400 lbs.
- **Cube:**
 - Clamshell - 797 cu. ft.
 - Canvas Specialties - 750 cu. ft.
- **Erection:**
 - Clamshell - 12 People, 36 Hours
 - Canvas Specialties - Eight People, 36 Hours
- Procured During Operation Desert Shield/Storm



Large Area Maintenance Shelter (Clamshell) (Army/Naval/Air Force)



Large Area Maintenance Shelter (Canvas Specialties) (Army)

LARGE AREA MAINTENANCE SHELTER (AIR FORCE)

- **Type of Shelter:** Frame Supported
- **NSN:** 5410-01-533-7395
- **Purpose/Use:** Large Area Maintenance/Repair Shelter for Helicopters, Tanks, Wheeled Vehicles and Aircraft
- **Dimensions:** Clamshell 129'L x 75'W x 31'H
- **Doors:** Two end doors for aircraft and two side doors for personnel
- **Floor Area:** Clamshell Approximately 9675
- **Shelter Weight:** Clamshell 20,000 lbs or less including shipping containers and tool kit, Minimum 2 containers (Max Weight 10,000 lbs each packed)
- **Cube:** Clamshell Approximately 750
- **Erection:** Clamshell 12 People Approximately 24 hrs

JOCOTAS Specialty Items

Note ITEMS listed under a particular service were initially developed, acquired and fielded by that particular service but are approved for use by all DOD organizations.

SOLAR SYSTEM, TYPE II (ARMY)

- **Type of Shelter:** Pole Supported
- **Purpose/Use:** Provide Solar Protection for Munitions, Vehicles and Equipment
- **Environment:** Hot Climates
- **Dimensions:** 50'L x 50'W x 10' to 14'H
- **Floor Area:** 2000 sq. ft. (Per Module)
- **Erection:** Two Soldiers - One Hour (Per 2000 sq. ft. Module)
- **Fabric:** Lightweight, Open Weave Material
- Complexible
- Modular Design for Varying Ground Cover
- Reduces Solar effect by a minimum of 60%
- Improves Reliability of Munitions
- Vehicle Drive Through Capability
- **NSN:** 5410-01-519-7185
- **Color:** Desert Tan



**Solar System, Type II
(Single Unit - 2,000 Sq. Ft.)**



**Solar System, Type II
(Four Units - 8,000 Sq. Ft.)**

SOLAR SYSTEM, TYPE I (ARMY)

- **Type of Shelter:** Pole Supported
- **Purpose/Use:** Provide General Purpose Solar Protection for Food Stocks, Supplies, Munitions, Vehicles and Equipment
- **Environment:** Hot Climates
- **Dimensions:** 35'L x 35'W x 7' to 10'H
- **Floor Area:** 895 sq. ft.
- **Erection:** Two Soldiers - 30 Minutes
- Constructed of Lightweight, Open Weave Mesh Material
- Reduces Solar Effect by a Minimum of 60%
- HMMWV Drive Through Capability
- Cover is Modular Side to Side
- **NSN:** 5410-01-519-7041
- **Color:** Desert Tan



Solar System, Type I

CARGO BED COVERS (ARMY)

- **Description:** The CBC provides a vented, weather-tight and lockable rigid wall enclosure to store, protect and secure equipment, tools, and other theft-prone items without interfering with its carrier's ground, air, or rail mobility. The CBCs offer a more durable and environmentally safe alternative to the standard bow and canvas covers. CBCs also offer a safe, standard alternative to the non-standard wooden or poorly constructed homemade covers/built-ups that must be removed for air and rail transport and quickly degrade over time because of operation over rough terrain. All CBCs meet the transportability requirements of its prime mover and are C-130 transportable.
- **NSNs:**
 - Type I (HMMWV), Camouflage, 5411-01-467-3243
 - Type I (HMMWV), Desert Sand, 5411-01-479-1928
 - Type II (M105A2 Ton Trailer), Camouflage, 5411-01-467-3185
 - Type II (M105A2 Ton Trailer), Desert Sand, 5411-01-479-1925
 - Type III (M35A2 Truck, M1078 LMTV, M1082 LMTV Trailer), Camouflage, 5411-01-472-7852

- Type III (M35A2 Truck, M1078 LMTV, M1082 LMTV Trailer), Desert Sand, 5411-01-479-1932
 - Mounting Adapter Kit for M35A2, 5411-01-486-8214
 - Mounting Adapter Kit for M1078, 5411-01-486-8213
 - Mounting Adapter Kit for M1082, 5411-01-485-1652
- Type IV (M923 Truck, M1083 LMTV, M1095 LMTV Trailer), Camouflage, 5411-01-472-7857
- Type IV (M923 Truck, M1083 LMTV, 1095 LMTV Trailer), Desert Sand, 5411-01-479-1933
 - Mounting Adapter Kit for M923, 5411-01-487-8686
 - Mounting Adapter Kit for M1083, 5411-01-488-5876
 - Mounting Adapter Kit for M1095, 5411-01-493-1645

■ Dimensions:

- Type I - Min. Interior (79"L x 77.5" W x 62"H), Max Exterior (84.5"W)
- Type II - Min. Interior (104"L x 70" W x 54"H), Max Exterior (78"W)
- Type III - Min. Interior (120"L x 77" W x 30-72"H), Max Exterior (88"W)
- Type IV - Min. Interior (140"L x 77" W x 30-72"H), Max Exterior (88"W)

■ Weight:

- Type I - 450 lbs
- Type II - 425 lbs
- Type III - 677 lbs
- Type IV- 756 lbs

- **Features:** C-130 transportable, Lockable Rear Door, Two Vents for Passive Ventilation, Cab Access (Type I Only), Power/Signal Ports, White Interior, Roof Steps/ Handholds, Non-Slip Roof, Easily Can Be Configured with Tool Cabinets, Shelves, Workbenches, Lights and Fans, Height Reducible for Internal Air Transport (Type III and Type IV Only)

- **Supportable:** Technical Manual is packed with each CBC. CBC TMs also available online at http://www.logsa.army.mil/etms/find_etm.cfm, and training videos are available.

- Type I CBC: TM 10-5411-231-13&P
- Type II CBC: TM 10-5411-232-13&P
- Type III CBC: TM 10-5411-233-13&P
- Type IV CBC: TM 10-5411-234-13&P



Type I Cargo Bed Cover (CBC)



Type II Cargo Bed Cover (CBC)



Type III Cargo Bed Cover (CBC)



Type IV Cargo Bed Cover (CBC)

LEGACY SHELTERS: Non-Expandable Rigid Wall Shelters

Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

S-250/G, SHELTER, ELECTRICAL EQUIPMENT (ARMY)

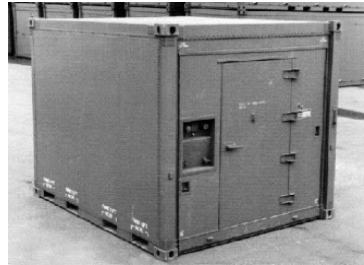
- **Description:** Mobile tactical shelter designed for housing communications and electronics equipment.
- **NSNs:** Unshielded NSN 5411-00-999-4935, EMI Shielded NSN 5411-00-489-6076
- **Dimensions:** Exterior 7'-3"L x 6'-7"W x 5'-10"H, Interior 6'-8"L x 6'-3"W x 5'-4"H
- **Weight:** 770 lbs.
- **Payload:** 2530 lbs.
- **Construction:** Foam & Beam
- **Prime Mover:** HMMWV, M1028 CUCV
- **EMI Modification Kit:** NSN 9999-00-880-2188
- **EMI Protection:** 60 dB
- HMMWV Mounting Kit: NSN 5340-01-455-8700
- Includes Cable Lift & Tie Down Assembly
- **LIN:** S01427



S-250/G (Army)

ISO, 10 FOOT (MARINE CORPS)

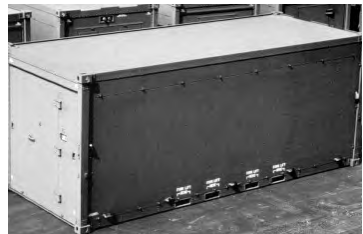
- **Description:** Non-Expandable 10 Ft. ISO Shelter
- **NSNs:** General Purpose - 5411-01-287-4341, EMI Shielded - 5411-01-206-6079
- **Dimensions:** Interior 9'L x 7'-6"W x 7'-2"H, Exterior 9'-11"L x 8'W x 8'H
- **Weight:** General Purpose - 2670 lbs., EMI Shielded - 2705 lbs.
- **Payload:** 3500 lbs.
- **Gross Weight:** General Purpose - 6170 lbs., EMI Shielded - 6205 lbs.
- **Construction:** Honeycomb Core
- **EMI Protection:** 60 dB
- Removable Side and End Walls for GP ISO Only



ISO, 10 Foot (Marine Corps)

ISO, 20 FOOT (MARINE CORPS)

- **Description:** Non-Expandable 20 Ft. ISO Shelter
- **NSNs:** General Purpose - 5411-01-209-3451, EMI Shielded - 5411-01-206-6078
- **Dimensions:** Interior 19'L x 7'-6"W x 7'-2"H, Exterior 19'-11"L x 8'W x 8'H
- **Weight:** General Purpose - 3750 lbs., EMI Shielded - 4650 lbs.
- **Payload:** General Purpose - 11,250 lbs., EMI Shielded - 10,350 lbs.
- **Gross Weight:** General Purpose - 15,000 lbs., EMI Shielded - 15,000 lbs.
- **Construction:** Honeycomb Core
- **EMI Protection:** 60 dB
- Removable Side and End Walls for GP ISO Only



ISO, 20 Foot (Marine Corps)

LEGACY SHELTERS: Expandable Rigid Wall Shelters

Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

ISO, KNOCKDOWN (MARINE CORPS)

- **NSN:** 5411-01-206-6077
- **Stored/Stacked Dimensions:** 19'-11"L x 8'W x 1'-9"H
- Four Knocked Down Shelters Can be Stacked and Shipped in Transport Mode (8' x 8' x 19'-11"L)
- **Erection:** 20 Soldiers - 20 Minutes
- Conforms to ISO Container Standards
- **Erected Dimensions:** Interior 19'-11"L x 7'-5"W x 7'-1"H, Floor to Beam 6'-2"H
- **Weight:** 3650 lbs.
- **Floor Load:** 45 lbs./sq. ft.



TOP: Knockdown ISO, Stacked (USMC), BOTTOM: Knockdown ISO, Partially Erected

LEGACY SHELTERS: Soft Wall Shelters

Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

TENT, SHELTER HALF (ARMY)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-00-753-6435
- **Purpose/Use:** Provide One Soldier Shade, Shelter Joined Together with Another Shelter Half for Two Soldiers
- **Dimensions:** 7'L x 5'-4"W x 3'-7"H (Two Halves)
- **Floor Area:** 30 sq. ft. (Two Shelter Halves)
- **Weight:** 5 lbs.
- **Cube:** 0.4cu. ft.
- **Erection:** Two Soldiers - Five Minutes
- **Fabric:** 8.25 oz. Cotton Duck
- Six Halves Can Be Joined to Shelter Six Soldiers
- **LIN:** T00150



Shelter Half Tent (Army)

TENT, COMMAND POST, M-1945 (MARINE CORPS)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-00-269-1370
- **Purpose/Use:** Battalion Command Post, Battalion Aid Station
- **Dimensions:** 20'-7"L x 10'W x 6'H to 9'H (Eave to Peak)
- **Floor Area:** 172 sq. ft. (48 sq. ft. Vestibule Space)
- **Weight:** 235 lbs.
- **Cube:** 9.9 cu. ft.
- **Erection:** Five Soldiers - 20 Minutes
- **Fabric:** 13.5 oz. (Max) Polyester Duck
- **Color:** Olive Drab
- **LIN:** V49143



M-1945 Command Post Tent
(Marine Corps)

TENT, GENERAL PURPOSE, SMALL (ARMY)

- **Type of Shelter:** Pole Supported
- **NSN:** 8340-00-470-2335
- **Purpose/Use:** Command Post, Battalion Aid Station, Fire Direction Center, or General Purpose
- **Dimensions:** 8'-9"L x 17'-6"W x 5' to 10'-6"H (Eave to Peak)
- **Floor Area:** 200 sq. ft.
- **Weight:** 186 lbs.
- **Cube:** 8 cu. ft.
- **Erection:** Four Soldiers - 30 Minutes
- **Fabric:** 13.5 oz. (Max) Polyester Duck
- **Color:** Desert Tan 459, Camo Green 483
- **LIN:** V49126



General Purpose (GP)
Small (Army)

TENT, FRAME-TYPE, INSULATED, SECTIONAL, 16 FT *16 FT (ARMY)

- **Type of Shelter:** Frame Supported
- **NSN:** 8340-00-262-2399
- **Purpose/Use:** General Purpose Use in Extreme Cold Climates
- **Dimensions:** 16'L × 16'W × 6'H to 8'H (Eave to Peak)
- **Floor Area:** 256 sq. ft.
- **Weight:** 2252 lbs.
- **Cube:** 250 cu. ft.
- **Erection:** Six Soldiers - 45 Minutes
- **Fabric:** Vinyl Coated Cotton Duck (1" Thick Fiberglass Batting)



**16 Ft × 16 Ft Frame Type
Insulated Sectional Tent (Army)**

TENT, GENERAL PURPOSE, MEDIUM (ARMY)

- **Type of Shelter:** Pole Supported
- **NSNs:** Green 8340-00-482-3963,
Tan 8340-01-329-7478
- **Purpose/Use:** Personnel Housing, Command Post, Fire Direction Center, Mess Tents
- **Dimensions:** 32'L × 16'W × 5'-6" to 10'H (Eave to Peak)
- **Floor Area:** 512 sq. ft.
- **Weight:** 530 lbs.
- **Cube:** 33 cu. ft.
- **Erection:** Four Soldiers - 40 Minutes
- **Fabric:** 13.5 oz. (Max) Polyester Duck
- **Color:** Camo Green 483, Desert Tan 459
- **LIN:** V48989



**General Purpose (GP)
Medium (Army)**

TENT, GENERAL PURPOSE, LARGE (ARMY)

- **Type of Shelter:** Pole Supported
- **NSNs:** Green 8340-00-470-2342,
Tan 8340-01-329-7479
- **Purpose/Use:** Hospital Ward, Billeting, Storage
- **Dimensions:** 52'L × 18'W × 5'-6" to 12'H (Eave to Peak)
- **Floor Area:** 936 sq. ft.
- **Weight:** 666 lbs.
- **Cube:** 69 cu. ft.
- **Erection:** Six Soldiers - 75 Minutes
- **Fabric:** 13.5 oz. (Max) Polyester Duck
- **Color:** Camo Green 483, Desert Tan 459
- **LIN:** V48578



**General Purpose (GP)
Large (Army)**

LEGACY SHELTERS: Maintenance

Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

TENT, FRAME-TYPE, MAINTENANCE MEDIUM, LIGHT METAL (FRITSCH) (ARMY)

- **Type of Shelter:** Frame Supported
- **NSN:** 8340-00-951-6419
- **Purpose/Use:** Medium Sized Maintenance Shelter for Repair of Tracked and Wheeled Vehicles
- **Dimensions:** 32'L × 20'W × 14'H
- **Floor Area:** 640 sq. ft.
- **Weight:** 3371 lbs.
- **Cube:** 289.6 cu. ft.
- **Erection:** Four Soldiers - Five Hours
- **Fabric:** 9.85 oz. Cotton Duck (Olive Drab)
- **LIN:** V48441
- Cold Weather Insulated Liner Available (Cotton Sateen/Fiberglass Batting)



Standard Maintenance Tent (Army)

Shelters listed under Individual Service "LEGACY" Shelters are presently NOT being acquired and not being logistically supported with spare parts by any DOD organizations.

GENERAL PURPOSE SHELTER (BEAR) (AIR FORCE)

- **Type of Shelter:** Hybrid (Rigid and Soft)
- **NSN:** 5410-00-365-5017
- **Dimensions:**
 - Deployed - 46'L × 30'W × 12'H
 - Transport Mode - 9'-9.75"L × 8'W × 8'H
- **Floor Area:** 1400 sq. ft.
- **Weight:** 10,897 lbs.
- **Erection:** 120 Man-hours (No Special Equipment Required)
- **Construction:** Rigid Honeycomb Wall Panels Connected to I-Beams to Form Arches
- Includes Electrical and Lighting
- Transportable by Truck, Forklift, 463L Cargo Handling System, or Towed Trailer



**General Purpose Shelter
(Air Force)**



IN REPLY
REFER TO

DEPARTMENT OF DEFENSE
DEFENSE STANDARDIZATION PROGRAM OFFICE
8725 JOHN J. KINGMAN ROAD, STOP 5100
FORT BELVOIR, VA 22060-6220



JOINT COMMITTEE ON TACTICAL SHELTERS (JOCOTAS)

CHARTER

25 June 2010

1. **PURPOSE:** JOCOTAS is a DOD wide committee that brings together many organizations and individuals involved in soft wall, rigid wall and hybrid military tactical shelters. The purpose is to:
 - a. Establish a DOD standard family of tactical shelters.
 - b. Enforce the maximum use of the DOD standard family of tactical shelters.
 - c. Actively advocate for the development and fielding of state of the art shelters and ancillary equipment.
 - d. Share information and any available resources to eliminate duplication of shelter technology development efforts; working toward common solutions for identified problem areas.
 - e. Establish standards for shelters to ensure structural and environmental performance, and compatibility with commercial and military transportation and material handling assets.
 - f. Provide a forum for interaction between JOCOTAS and industry.
2. **SCOPE:** Under the joint regulation AR 70-59/AFJI 61-106/OPNAVINST 3900.27/MCO 3920.5A, entitled "Department of Defense Tactical Shelter Program", JOCOTAS was formed in 1975 for the purpose of eliminating duplication of RDT&E among the Military Services, and to establish and maximize usage of a standard family of tactical, rigid wall shelters. Since its inception, JOCOTAS has reduced the number of rigid wall shelter types from approximately 250 to 17. Soft shelters were added to JOCOTAS in 1994. This charter augments the joint regulation.
3. **JOCOTAS TACTICAL SHELTERS:** A tactical shelter is a mobile, transportable structure designed to meet a functional requirement. It provides an environmentally controllable space for human habitation and use, and/or permanent equipment storage or operation. A description and list of shelters approved for DOD use by JOCOTAS can be found in the JOCOTAS Standard Family of Tactical Shelters brochure at <http://nsrdec.natick.army.mil/media/print/JOCOTAS.pdf>.
4. **EXCLUSIONS:** Structures that are not considered tactical shelters and are thus not covered by this charter are as follows:

- a. Containers used exclusively for cargo transportation, e.g. milvans, conex containers, bulk general purpose cargo, and refrigerated containers;
- b. Structures which cannot be redeployed in their original shipping configurations, are designed as permanent single use items, requiring non-organic elements to deploy;
- c. Vans;
- d. Enclosed semi-trailers.

5. MEMBERSHIP: The JOCOTAS membership is composed of:

- a. Chairman – JOCOTAS Chairperson (referred to as Chair) shall be from OUSD (AT&L).
- b. Executive Secretary – The Chair shall name an executive secretary that will arrange for meetings, prepare the agenda, and complete and distribute the minutes.
- c. Technical Working Group (TWG) Chairs – There will be a Shelter Technology TWG and a Shelter Integration TWG. The Executive Secretary shall name the Chair of each of these TWGs. Each TWG Chair will arrange the TWG meetings, prepare the agendas, and complete and distribute the minutes.
- d. Military Service/Agency Representatives – Each Military Service and the Defense Logistics Agency shall select a single person who has the authority to represent that Military Service/Agency as a voting member. The voting members are listed on the last page of the JOCOTAS Standard Family of Tactical Shelters brochure at: <http://nsrdec.natick.army.mil/media/print/JOCOTAS.pdf>.
- e. General Participation – JOCOTAS invites any Government personnel involved with, or interested in, shelters to attend meetings, to include:
 - Shelter technology and engineering developers
 - Shelter integrators and engineering support activities
 - Shelter procurement agencies
 - Combat developers and requirements agencies

Note: Occasionally, Non-Government personnel may be invited to participate in these meetings.

6. MEETINGS:

- a. At a minimum, a JOCOTAS meeting will be held annually. The Chair will preside over:
 - A review of the results of the TWG meetings
 - Highlights of the shelter activities
 - The 5-year multi-service program information regarding current and future projects and production
- b. At a minimum, TWG Meetings will be held semi-annually to share information, develop program and standardization strategies, and resolve disputes



GREGORY E. SAUNDERS
DIRECTOR

JOINT COMMITTEE ON TACTICAL SHELTERS (JOCOTAS)

OPERATING PROCEDURES

25 June 2010

I. Standard Shelter Determination

A standard shelter is one that meets the criteria and conditions established below. For shelter definitions see Appendix I.

A. Criteria:

- 1) A standard shelter¹ is one that has:
 - a) Been adopted by a Military Service through a Milestone C decision with full material release;
 - b) Demonstrated interoperability with existing DOD Standard Shelters and ancillary military equipment and material handling;
 - c) A competitively procurable Technical Data Package (drawings and/or specifications);
 - d) Government DoD Technical Manuals prepared in accordance with MIL-STD-40051-2 with CHANGE 3;
 - e) Total Life Cycle Management coordinated through a Program/Product Manager.

B. Process:

- 1) The sponsoring Military Service must provide the following documentation to the JOCOTAS Executive Secretary:
 - a) Signed Milestone C documentation with Full Material Release;
 - b) Previously obtained JOCOTAS waiver, if applicable;
 - c) Completed Technical Data Package;
 - d) Approved Draft or Final Technical Manual;
 - e) Life Cycle Manager with Sustainment Support.
- 2) The JOCOTAS Executive Secretary shall distribute the above documentation to the JOCOTAS voting members for their consideration.

¹ Having a shelter as a "component" of a previously type classified shelterized system does NOT meet the above definition. A standard shelter is one that is type classified as a "stand-alone" "general purpose" shelter by any Service.

- 3) The JOCOTAS voting members shall confer amongst their respective Military Service or Agency, and then submit their vote in writing to the Executive Secretary.
- 4) If a majority of voting members agree, then the Executive Secretary will report this consensus to the JOCOTAS Chair who will then make a final determination regarding adopting the shelter as a JOCOTAS approved DOD Standard Shelter, whereupon, at the Chairman's discretion, either the Chairman or the Executive Secretary shall issue a decision memorandum.
- 5) If a consensus cannot be obtained, the issue resolution procedures (Section III) shall apply.

II. Waiver Process

- A. A waiver is required from OUSD (AT&L) to develop and/or acquire a soft or rigid wall or hybrid tactical shelter other than one that is listed in the JOCOTAS Standard Family of Tactical Shelters Brochure (<http://nsrdec.nalick.army.mil/media/print/JOCOTAS.pdf>).
- B. Prior to submitting a waiver request, requester must contact his or her JOCOTAS voting member to discuss the situation and verify the need to submit a waiver request. Requester then should prepare the waiver request and submit the following information to the aforementioned JOCOTAS voting member:
 - 1) Name of system, development organization/agency, address, responsible individual and phone number;
 - 2) Program plans and fielding requirements (Development effort, quantity and fielding schedule);
 - 3) Statements supporting the rationale why a standard shelter cannot be used by addressing the following:
 - a) Specific requirements preventing the use of a standard shelter;
 - b) The basis of these requirements;
 - c) The capabilities not provided by a DOD Standard Shelter;
 - d) Description of why a standard shelter cannot be modified or upgraded;
 - e) Description of any effort made to change or modify requirements to allow the use of standard shelters;
 - f) Why integrating components or layout cannot be changed so a standard shelter can be used.
- C. JOCOTAS voting member shall submit the request to the Executive Secretary who will distribute the above documentation to the other JOCOTAS voting members for their consideration. The Executive Secretary may require the system development organization/agency to brief the JOCOTAS voting members, and Chairman prior to balloting.

- D. If the majority of voting members agree, the waiver request will be forwarded, by the Executive Secretary, to the JOCOTAS Chair. The Chair will grant or deny the waiver request whereupon, at the Chairman's discretion, either the Chairman or the Executive Secretary shall issue a decision memorandum.
- E. If a consensus cannot be obtained, the issue resolution procedures shall apply.

III. Issue Resolution

Each Military Service & Defense Logistics Agency Headquarters shall have one voting member. A majority vote shall be sufficient to resolve most issues, unless a majority of the voting members determine that the issue is of such significance that it needs to be brought to the attention of the Chair. When a consensus cannot be obtained, or the issue is of major significance, then a special meeting shall be held with the Chair. The Executive Secretary will prepare a white paper prior to the meeting describing the issue(s) with a brief synopsis describing the positions of each of the voting groups. Each side will have the opportunity to present its position to the Chair. The Chair will make the decision.

APPENDIX I

Definitions

Tactical Shelter – A mobile, transportable structure designed to meet a functional requirement. It provides an environmentally controllable space for human habitation and use, and/or permanent equipment storage or operation. Tactical shelters shall be categorized as follows:

- a. **Rigid Wall Shelters** – pre-sized structures (non-expandable and expandable shelters) that are transported by land, sea, or air. These shelters require minimal site preparation and no specialized set-up.
- b. **Soft Wall Shelters** – include pole or frame supported fabric structures that are transported and then erected or assembled on site.
- c. **Hybrid Shelters** – a combination of rigid and soft wall shelters that are transported and erected or assembled on site.

Standard Shelter¹ – An interoperable shelter that has been adopted by a Military Service through a Milestone C decision, is competitively procurable with a Technical Data Package (drawings and/or specifications), has Government DoD Technical Manuals prepared in accordance with MIL-STD-40051-2 with CHANGE 3 and provisioning.

Van – Specialty body, specifically designed to attach permanently and directly to the chassis of a particular vehicle.

Container – Any compliant or non-compliant ISO 1496 shipping container which is used exclusively for the bulk transport of materials e.g., MILVANS, CONEX containers, bulk general purpose cargo, and refrigerated Containers.

¹ Having a shelter as a "component" of a previously type classified shelterized system does NOT meet the above definition. A standard shelter is one that is type classified as a "stand-alone" "general purpose" shelter by any Service.

TITLE	NAME	PHONE/FAX	MAILING/EMAIL ADDRESS
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Chairman's Action Officer	Lloyd Thomas III	(703) 767-7588 Fax: (703) 767-6876	Defense Standardization Program Office, Office of the Under Secretary of Defense for Acquisition, Technology and Logistics <i>lloyd.thomas@dla.mil</i>
Executive Secretary	Frank Kostka	(508) 233-5257 DSN: 256-5257 FAX: (508) 233-4433 FAX DSN: 256-4433	Shelter Technology, Engineering & Fabrication Directorate US Army Natick Soldier RD&E Center ATTN: RDNS-ST Kansas Street Natick, MA 01760-5018 <i>frank.kostka@us.army.mil</i>
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Shelter Technology Working Group Chairman	Amy Klopotoski	(508) 233-5339 DSN 256-5339 FAX: (508) 233-4433 FAX DSN: 256-4433	Shelter Technology, Engineering & Fabrication Directorate US Army Natick Soldier RD&E Center ATTN: RDNS-ST Kansas Street Natick, MA 01760-5018 <i>amy.klopotoski@us.army.mil</i>
Contractor Support	David A. Mikelson	(617) 254-5745 CELL: (617) 818-8397 FAX: (617) 818-8397	Shelter Technology, Engineering & Fabrication Directorate US Army Natick Soldier RD&E Center ATTN: RDNS-ST Kansas Street Natick, MA 01760-5018 <i>david.mikelson2@us.army.mil</i>

JOCOTAS Principal Voting Members

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Voting Member	David Lindquist	(801) 777-7726 DSN: 777-7726 FAX: (801) 586-2149/3756 FAX DSN: 586-2149-3756	OO-ALC 500 CBSS/GBLE 6021 Gum Lane, Building 1228 Hill AFB, UT 84056-5825 dave.lindquist@hill.af.mil
ARMY			
Voting Member	Stephen Rann	(703) 545-1760 DSN: 865-1760 Fax (703) 602-0730	CS/CSS Directorate, Assistant Secretary of the Army (Acquisition, Logistics and Technology), stephen.rann@us.army.mil
Action Officer	Fred Callies	(703) 545-1775 DSN: 865-1760 FAX: (703) 602-0730	DA Systems Coordinator (Force Sustainment Systems), Assistant Secretary of the Army (Acquisition, Logistics and Technology) fredrick.callies@us.army.mil
DEFENSE LOGISTICS AGENCY (DLA)			
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Action Officer (Rigid Wall)	Jean Klinger	(703) 617-2421	Combat Support Equipment U.S. Marine Corps Systems Command 50 Tech Parkway, Suite 301 Stafford, VA 22556 jean.klinger@usmc.mil www.marcorsyscom.usmc.mil/sites/cbrn/team%20shelters.asp
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JOCOTAS Principal Voting Members

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Action Officer <i>(Rigid Wall)</i>	MSgt David P. Turner	(301) 757-0747 DSN: 757-0747 FAX: (301) 342-0958	NAVAIRSYSCOM (AIR 6.7.6.2) 47013 Hinkle Circle, Bldg 416, Suite 1008 Patuxent River, MD 20670-1628 <i>david.p.turner@navy.mil</i> <i>www.navair.navy.mil/mobilefacilities</i>
Action Officer <i>(Soft Wall)</i>	Mike Marcelino	(805) 982-5995 DSN: 551-5995 FAX: (805) 982-5196	Naval Facilities Expeditionary Logistics Command NFELC, N443 1000 23rd Ave, Bldg 1000 Port Hueneme, CA 93043-4301 <i>michael.marcelino@navy.mil</i>

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	Anne Bates	(478) 222-1656 DSN 472-1656 FAX: (478) 222-4929/1843 FAX DSN: 472-4929/1843	578 CBSS/GBLC 460 Richard Ray Boulevard, Suite 200 Robins AFB, GA 31098-1640 anne.bates@robins.af.mil
Air Force (S-530 A/G Shelter)	Jennifer Riley	(478) 222-7324 DSN 472-7324	579 CBSS/GBLA 460 Richard Ray Boulevard, Suite 200 Robins AFB, GA 31098-1640 jennifer.riley@robins.af.mil
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ARMY			
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Force Provider	Michael Hope	(508) 233-4486 DSN: 256-4486 FAX: (508) 233-5553 FAX DSN: 256-5553	PM FSS-CFSET US Army Natick Soldier Systems Center Kansas Street Natick, MA 01760 michael.hope@us.army.mil
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Product Director - Transportable Platform CBR Survivability	Stephen Beaudoin	(508) 233-5136 DSN 256-5136 FAX: 508-233-5112	US Army Natick Soldier RD&E Center ATTN: ARDNS-STT 15 Kansas Street Natick, MA 01760-5018 stephen.beaudoin@us.army.mil
Defense Logistics Agency	James Vitrano	(215) 737-3046 DSN: 444-3046 FAX: (215) 737-3276 FAX DSN: 444-3276	Defense Logistics Agency Defense Supply Center Philadelphia ATTN: DSCP-FQSE 3C6021 Clothing and Textiles Directorate 700 Robbins Avenue Philadelphia, PA 19111-5092 james.vitrano@dla.mil



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