

Mobile Expandable Container Configuration (MECC™) 20'



Tactical Operations Center (TOC) for the USMC 1st Fleet Service Support Group (1 FSSG)

- Deployment in minutes
- Deployed floor area is 3 times larger than transport area
- Designed to International Standards Organization (ISO) specifications
- CSC Certification for air, land or sea transport and stacking
- Insulated spacious interior
- Fully outfitted with electrical, mechanical, HVAC & furnishings

The **MECC™** combines **Weatherhaven** fabric structure technology with the world's first standard in transportation – the ISO container. This hybrid design is ingenious yet simple.

The **MECC™** shelter is a fully assembled and self-contained unit, which offers end users the benefit of three times the floor area of a conventional wood or steel constructed module that has the same shipping footprint. Deployment of this unit on site only takes minutes and does not require any special skills.

Transportation logistics for the **MECC™** are unparalleled since it is patterned after the universal ISO shipping container. While in the ISO shipping container format, the **MECC™** can be loaded for transport using forklifts, cranes, helicopters, PLS, Bail Bar, CHU and specialty jack stands. Shipment to end users is cost effective and convenient as the **MECC™** can also be transported using trucks, trailers, rail, aircraft or ships including “roll on and roll off” and “container on flat car”.

Security issues and damage in transit are always of concern when shipping conventionally constructed modules. One of the major advantages of the **MECC™** is that its rugged construction and heavy-duty

latching and locking mechanisms make it resistant to both pilferage and cargo damage, thereby protecting valuable internal contents and reducing the possibility of a delay due to shortages of critical components.

Standard Specifications

Each basic **MECC™** includes the following standard features:

- Steel or aluminium construction
- Rugged steel or aluminum exterior
- One durable, weather resistant personnel door
- Anti-Racking container locks
- Foam insulation in walls, floors and ceiling
- Vinyl-coated polyester and insulated cover in **MECC™** Wings
- Non-slip 2.0 mm PVC flooring
- Interior core wall and ceiling finish of plastic laminate panel
- Safety equipment and labeling for expandable deployment

Model	Dimensions W x L x H	Basic Config. Approx. Weight	Stacking Capability
MECC™ 20S	8' x 20' x 8' 2.4 x 6.1 x 2.4 m	8,500 lbs 3,856 kg	9
MECC™ 20S EX	8' x 20' x 8'6" 2.4 x 6.1 x 2.6 m	9,000 lbs 4,082 kg	3
MECC™ 20AS	8' x 20' x 8' 2.4 x 6.1 x 2.4 m	7,500 lbs 3,402 kg	9
MECC™ 20AS EX	8' x 20' x 8'6" 2.4 x 6.1 x 2.6 m	8,000 lbs 3,629 kg	3
MECC™ 20A	8' x 20' x 8' 2.4 x 6.1 x 2.4 m	5,500 lbs 2,495 kg	3
MECC™ 20A EX	8' x 20' x 8'6" 2.4 x 6.1 x 2.6 m	6,000 lbs 2,722 kg	3

S = steel structure, **A** = aluminum structure, **AS** = aluminum wing structure with steel core structure, **EX** = extended height

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USER BENEFITS

- Cost savings through transportation economies since transport ready **MECC™** is 1/3 the footprint of the deployed floor space
- Unit can be well secured for transit, thereby reducing pilferage
- Cost/time savings in site setup due to rapid deployment
- Reduce future capital investment due to ease of redeployment on other missions
- Can be complexed and interconnected so end users do not have to go outside in environmentally harsh conditions
- Can be stacked on tight sites for storage or use, providing the required space in a fraction of the time it would take for conventional construction
- Expanded without exposing internal components to weather
- Maintenance is minimal

The Core

The **MECC™** is designed to incorporate all of the standard ISO container features including forklift pockets and ISO corners, which permit its versatile handling and movement. The **MECC™** core and wings are fully insulated for arctic/desert conditions.

The Wings

Cover

Expandable fabric covers are manufactured from technologically advanced vinyls, which exhibit high-tear strength, fire retardance, resistance to mildew and ultraviolet radiation. The cover material performance is optimized in ambient conditions from -55° C to +65° C (-67° F to +149° F).

Frame

- Cover is tensioned into place by tubular coated steel arches that provide excellent performance in high wind or snow loading conditions
- Tools are not required for assembly of system

OPTIONS

MECC™ Core

- Mechanical room for isolation of noisy, fume-producing, or external operating equipment
- Furnishings
- Permanently mounted equipment
- Solid partitions and access doors
- Storage systems and racks
- CARC Paint

Entries

- Blackout entry vestibule
- Additional durable and weatherproof personnel doors
- Double door(s)
- Complexing options for interconnectors

MECC™ Wings

- Fabric partitions
- Infrared reflective/CARC fabric upgrade
- Pivoting hard walls

Entries

- Insect netting
- Military spec heavy-duty industrial zipper
- Double zipper roll up door with Velcro seal
- **MECC™** to **MECC™** complexing kits
- **MECC™** to other shelter/vehicle complexing

Windows

- Rigid vinyl-framed sliding windows glazed with safety glass
- Blackout option available

Floor Coverings

- Checker plate steel or aluminum floors
- Non-slip PVC floor covering
- Medical flooring

Miscellaneous

- Mechanical jacks for leveling
- Stands for side support
- Stacking kits, which include ISO corner twist locks and side support extensions
- Stairs for access to mobilizer, trailer or stacked units
- Safety-tread ramps, cargo ramps
- Sunshade

The **MECC™** can be tailored to meet your needs. Some arrangements include Emergency Response, Search and Rescue, HAZMAT Response, Kitchens, Medical Facilities, Shower Complexes, Laundry Facilities, Command Centres, Diners, Sleepers, Wash Houses and special purpose Workshops such as Tire Maintenance or Electronics Repair facilities.

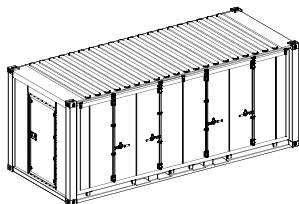
Units can be custom outfitted with equipment and systems to suit your requirements. Some examples include:

- Functional and aesthetic interior finishes
- Heating, ventilating and air conditioning
- Complete electrical/communication/computer cabling packages
- Complete plumbing and mechanical systems
- Sewage treatment
- Water storage and treatment
- Prime and standby power generation

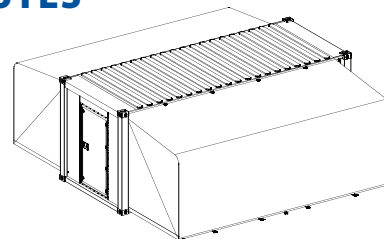
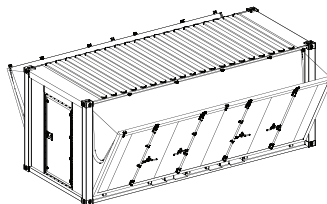
10' MECC

- 10' **MECC™** configuration also available

DEPLOYABLE IN MINUTES



20' (6.1 m) ISO Container Shipping Module



400 ft² (37.16 m²) Site Module

For information on the complete line of Weatherhaven products, please contact the head office at:

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