E2S2 Expandable Energy Efficient Shelter System

The latest innovation in energy efficient expandable shelters

- CSC Certified 9-high stackable when stowed
- Standard cargo container floor frame with forklift pockets
- Lightweight aluminum inner frame support SIP panels
- Thermal breaks between ISO shell and inner frame work prevent radiant heat and cold transfer to shelter interior
- Heavy-duty piano hinge design resists corrosion in extreme environments and damage during transportation
- 3 inches of R17 rated cellulose spray-foam insulation in container ceiling and floor
- Gas spring and winch assisted ceiling and floor panel deployment allows safe 2-person, approx 10 minute setup
- Small mechanical room with external cargo door access that provides storage for deployment tools and protects generator equipment

The E2S2 is the flagship product for Berg’s total camp solution and can be customized to meet all requirements including billeting, operations, kitchen and dining, administration, and more.

CONSTRUCTION:
- Panels consist of 1.625" total thickness made of polyurethane foam core with bonded 0.25" panels of polypropylene honeycomb core and gel coated fiberglass skins
- Lightweight floor door design for rapid deployment
- Floor/doors are hinged with 304 stainless steel piano hinges with a ¼" pin
- The interior floors are coated with Rhino Lining which provides a very durable surface

DIMENSIONS:
Stowed:
- Exterior: 20’ L x 8’ W x 8’ H
- Interior: 160 sq. ft.
- Pack out square footage: 99.8 sq. ft.

Deployed:
- Exterior: 20’ L x 20’ W x 8’ H
- Interior Center Height: 85" 
- Interior Sidewall Height: 78.5"
- Total Floor: 345 sq. ft.

SPECIFICATIONS

CONSTRUCTION:
- SIPs made from polyurethane foam core with polypropylene honeycomb-based skins

STRENGTH TESTING RESULTS:
- After 320 lbs static load: no visible damage
- After 580 lbs static load: minimal damage

Nominal Tare Weight: 7,550 lbs. (apx.)

FEATURES:
- Self-supporting expandable floors — does not require ground support
- 9 high stacking stowed
- CSC Certified: water tight construction and C130 air transportable
- Setup: 2 trained persons — 10 minutes
- R Values: R15 sidewalls | R17 Floor
- Container Shipping Certification: American Bureau of Shipping
- No special tools required
E2S2 Floor Plan Options

16-MAN OPEN PLAN
- Open plan
- (8) 32" bunk beds
- 2 tables
- 2 benches
- 2 ton ECU
- Smoke/CO2 detector
- Wall mount exhaust fans

8-MAN 4-ROOM PLAN
- 4 rooms with hallway
- (4) 32" bunk beds
- 4 tables
- 8 chairs
- 2 ton ECU
- Smoke/CO2 detector
- Wall mount exhaust fans

OPERATIONS CENTER
- Conference room
- 4 work stations
- Half bathroom
- Refrigerator & sink
- Plasma tv
- Smoke/CO2 detector
- Wall mount exhaust fans

HYGIENE CENTER
- 4 washer/dryer units
- 5 toilets
- 5 shower stalls
- 2 urinals
- 4 sinks
- Smoke/CO2 detector
- Wall mount exhaust fans

DINING CENTER
- Seating for 40
- Buffet table
- Warming trays
- Microwave
- Drink station

ADMINISTRATION/OFFICE
- 2 Offices
- 3 work stations
- Half bathroom
- Refrigerator and sink
- 6 sinks
- Smoke/CO2 detector
- Wall mount exhaust fans

KITCHEN
- 2 ovens
- 2 fryers
- Flat top grill
- Refrigerator and freezer
- 3 sinks
- Prep tables
- Storage