MH20
Shelter System.



The Habitat Series (MH Series) is military quality inspired and is Design Shelter's most versatile portable shelter design. Due to its simplicity in construction and octagonal shape it assembles easily and is extremely stable in high wind conditions.

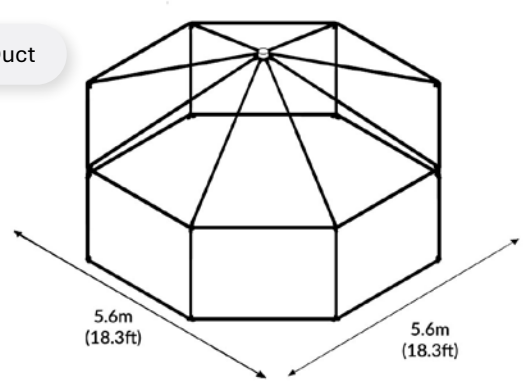
It is ideally suited to be used in the field for sleeping accommodations, medical operations, command and control centers, communications and project administration.

FEATURES & BENEFITS

+ Easily erected by 2-3 trained people without tools in less than 15 minutes.
+ Structurally superior 6063-T5 and 6061-T6 reinforced extruded tubular aluminium (aircraft grade), anodised to 10 microns.
+ All fabric is 100% waterproof and is easily disinfected (anti-microbial feature), with high frequency welded seams.
+ Exterior shelter fabric thickness - 475gms/m^2 (14oz/yd^2), (warp tear strength = 280N/mm (1598lbf/in), weft tear strength = 223N/mm (1273lbf/in), Shelter floor fabric thickness = 680gms/m^2 (20oz/yd^2) shelter floor fabric (warp tear strength = 280N/mm (1598lbf/in), weft tear strength = 247N/mm (1410lbf/in)).
+ Fabric meets NFPA 701 American fire retardant specification.
+ Full height 1800mm (6ft) vertical interior walls to maximize utilization of working space.
+ Folding aluminium frame double door (vinyl only cover and optional insulated door cover available) at 1330mm (53") wide by 1830mm (72") tall.
+ Lightweight and specially designed for a high degree of mobility.
+ Designed for lightweight tactical mobility with a superior lifespan which exceeds 20 years.
+ Thermal insulated fabric offers a minimum average thermal resistance of 1.5 K m^2/W (8.8ft2•h•°F/Btu or ~R-9).
+ Thermal insulation fabric utilizes argon filled bubbles which delivers 34% better thermal resistance than air.
+ Delivers superior performance in +50°C to -50°C (+122°F to -58°F) ambient temperature range – naturally cooler in tropical environments.
+ Design Shelters offer a standard one year warranty. Extended warranty is available upon request and offered on a case by case basis. Additional cost for extended warranty may be applicable.

STANDARD SHELTER PACKAGE INCLUDES:

- 1 Window Wall Panel with Air Duct
- 3 Window Wall Panels no Air Duct
- 3 Blank Wall Panels no Air Duct
- 1 Aluminium Double Door
- 1 Threshold Ramp
- Field Repair Kit
- Heavy Duty Integral Vinyl Floor System



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SPECIFICATIONS

Area	26m^2 (280ft^2)
Hospital Bed Capacity	4-5
Double Deck Bed Capacity	8-10
Diameter (Corner to Corner)	6.0m (20ft)
Width (Flat Edge to Flat Edge)	5.6m (18.3ft)
Length	5.6m (18.3ft)
Vertical Wall Height	1.8m (6ft)
Peak Height	3.1m (10.3ft)
Weight (Fully Insulated Shelter)	220kg (485lbs)
Standard Windows	4 windows
Packaging (Heavy Duty Vinyl Field Bags)	9pcs Assorted Bags



ACCESSORY OPTIONS

+ Insulated cover sets.
+ Electrical light and wiring harness set.
+ Additional field support equipment including:
  - Custom fit vinyl ground covers.
  - Air conditioning.
  - Exhaust fans.
  - HEPA air filtration systems.
  - Pressure control for negative pressure isolation or positive pressure containment.
  - Portable water storage bladders.
  - Grey water storage bladders.
  - Power supply (diesel generator).
  - Water/Sand Anchor Bladder Kit.

NOTES

+ Window dimensions - 1,016mm x 762mm (40” x 30”).
+ Air duct access panel dimension - 508mm x 508mm (20” x 20”).
+ Natural ventilation is provided at the peak at the structure to allow hot trapped air to escape.
+ Vinyl fabric is UV protected, fire retardant and tear strength is superior - cuts and abrasions can be easily repaired in the field.
+ 100% waterproof vinyl floors are secured to shelter sidewalls to prevent water entering the shelter.
+ Sewing thread specs- Tex: 135g (0.3lb), Tkt: 20, Ply: 6, Strength: 7097cN, Thickness: 0.45mm (0.02”).

PACKAGING WEIGHT AND DIMENSIONS

	Bags	Weight	Length x Width x Height
Vinyl Roof	1pc	± 40kg (88lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Insulated Roof, Wall Panels	2pc	± 35kg (77lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Insulated Double Doors	1pc	± 25kg (55lb)	1920mm x 680mm x 150mm (75.5” x 26.7” x 5.9”)
Main Frame	1pc	± 37kg (82lb)	2500mm x 520mm x 520mm (98.4” x 20.4” x 20.4”)
Eave and Eaves Bars	1pc	± 28kg (62lb)	2350mm x 180mm x 160mm (92.5” x 7.1” x 6.3”)
Weather Caps, Stainless Steel Frame Clips	1pc	± 5kg (11lb)	490mm x 490mm x 400mm (19.3” x 19.3” x 15.7”)
Repair Kit	1pc	± 4kg (9lb)	690mm x 220mm x 140mm (27.1” x 8.7” x 5.5”)
Threshold Ramp	1pc	± 5kg (11lb)	
TOTAL	9pcs	± 179kg (395lb)	
TOTAL (with crate)		± 258kg (568lb)	

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