MLH1950
Shelter System.



The Long Habitat Series (MLH Series) by Design Shelter is a portable shelter design that draws inspiration from military-grade quality. Its octagonal shape and simple construction make it effortless to assemble and remarkably stable, even in high wind conditions.

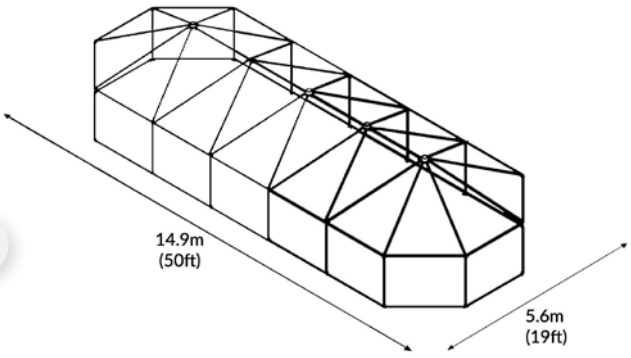
This shelter is a versatile option for various field applications, including sleeping accommodations, medical operations, command and control centers, communications, and project administration.

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:

- 2 Window Wall Panels with Air Duct
- 6 Window Wall Panels no Air Duct
- 6 Blank Wall Panels no Air Duct
- 2 Threshold Ramps
- 2 Aluminium Double Doors
- Field Repair Kit
- Heavy Duty Integral Vinyl Floor System



FABRIC8 INDUSTRIES

Philippines
9B Lot 22 and 38 Efficiency Avenue,
Subic Bay Gateway Park Phase 1
Subic Bay Freeport Zone, Philippines 2222

info@fabric8industries.com
+63-47-250-2854
fabric8industries.com

DESIGN SHELTER INC.

North America
1550 Carletta Drive, Mississauga
Ontario
Canada, L4X 1E3

info@designshelter.com
+1-778-558-2172
designshelter.com

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SPECIFICATIONS

Area	78m² (840ft²)
Hospital Bed Capacity	14-16
Double Deck Bed Capacity	28-32
Width (Flat Edge to Flat Edge)	5.6m (19ft)
Length	14.9m (50ft)
Vertical Wall Height	1.8m (6ft)
Peak Height	3.1m (10.3ft)
Weight (Fully Insulated Shelter)	476kg (1049lbs)
Standard Windows	8 windows
Packaging (Heavy Duty Vinyl Field Bags)	16pcs 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
Thermal Insulated Roof	1pc	± 42kg (93lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Vinyl Roof	1pc	± 53kg (116lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Vinyl Floor	1pc	± 61kg (134lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Window Panels, Wall Panels, Filler Panels	2pc	± 45kg (100lb)	1860mm x 270mm x 680mm (73.2” x 10.6” x 26.7”)
Insulated Double Doors, Filler Panels	2pc	± 26kg (57lb)	1920mm x 680mm x 150mm (75.5” x 26.7” x 5.9”)
Main Frame, Mid-Section Frame	2pc	± 44kg (97lb)	2500mm x 520mm x 520mm (98.4” x 20.4” x 20.4”)
Middle Main Frame	1pc	± 22.5kg (50lb)	2500mm x 520mm x 520mm (98.4” x 20.4” x 20.4”)
Eave and Eaves Bars	2pc	± 25kg (55lb)	2350mm x 180mm x 160mm (92.5” x 7.1” x 6.3”)
Weather Caps, Stainless Steel Frame Clips	1pc	± 5.5kg (12lb)	490mm x 490mm x 400mm (19.3” x 19.3” x 15.7”)
Repair Kit	1pc	± 5kg (11lb)	690mm x 220mm x 140mm (27.1” x 8.7” x 5.5”)
Threshold Ramp	2pc	± 4kg (9lb)	
TOTAL	16pcs	± 333kg (734lb)	
TOTAL (with crate)		± 570kg (1256lb)	

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