

Rapidly Deployable Shelters (RDS)



The Evolution of Expeditionary Solutions™

Rapidly Deployable Shelters (RDS) from World Housing Solution provide unparalleled transportability and thermal efficiency for austere and expeditionary structure solutions. The primary component of the RDS is the Rapidly Deployable Panel (RDP), a composite, heavily insulative panel used for walls, ceiling and floor.

16'x16' Shelters: Assembled in 4 Easy Steps

Rapidly Deployable Shelters (RDS) from World Housing Solution are easy to assemble. No skilled labor, lifting equipment, power machinery, or concrete pad required.



1

Place WHS Subframe Platform
(if required)



2

Lay RDS Floor



3

Erect Walls, Aligning with Tongue/Groove



4

Slide on Ceiling Panels (only 160lbs each)

Rapidly Deployable Shelters (RDS) - Frequently Asked Questions



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What Tools are Required?

The only tools required to assemble the RDS are ladder(s), rubber mallet, and basic hand tools. Due to the extremely light weight of the RDP panels, they may be handled and installed without the need for power machinery.

What Training is Required?

There is no training required. Basic assembly skills and the WHS Installation Manual is all that is required

What Regular Maintenance is Required?

Scheduled maintenance and sustainment is simple, and as follows:

- Monthly visual inspection of platform and cables, adjust as required (if equipped)
- Inspect roof, seams, and waterproofing tape
- Paint waterproofing annually

How Much does the RDS Weigh?

A typical 16'x16' (256 sq. ft.) RDS weighs approximately 3800 pounds when fully assembled. RDS up to 16' wide, for any length, require no internal beams. RDS structures over 16' wide employ composite I-beams which weigh only 33% of their steel counterparts.

What is the Thermal Insulation Rating?

Insulative rating up to R-72 is available for some surfaces; typical RDS overall rating is -R-32. Comparable building material ratings for brick, concrete, and tents are all less than R-1.

What Are The Benefits of Thermal Transference and Bridging?

Thermal transference and bridging (loss of heat, or loss of cooling) via gateways (doors, windows) and leaks are virtually eliminated with the RDS. All walls, roof, and floors are insulated. Unlike stick-built structures, the insulative RDP walls, floors, and ceilings are end-butteted, eliminating the loss gap. Double-paned insulated windows and well-sealed doors are used to avoid all thermal transfer and bridging.

What About Hurricane Force Winds?

RDS is rated for winds to 150MPH when optional securing harnesses are employed. These may be secured to the subframe or to ground anchors. Optional inshore hurricane rated windows are available.

How is it Installed on Uneven or Wet Ground?

RDS may be elevated from the ground with the optional lightweight aluminum subframe. This provides up to 20" of adjustability and clearance below the RDS structure. Uneven ground (and additional clearance) may be accommodated with optional adjustable leveling legs.

How is Electrical Run?

Lights and outlets can be installed virtually anywhere on any internal surface, providing great flexibility in customization. Covered electrical and Cat 5 cable is by surface mount, eliminating thermal transference (loss).

What is the Transportability?

RDS is extremely lightweight. Typically flat-packed for containers or 463L pallets, the RDS fills on volume, not weight. RDS structure maximum sizes by vehicle:

- Hilux: 100 sq. ft.
- C-146: 160 sq. ft.
- C-130: 1120 sq. ft.
- C-17: 4608 sq. ft.
- ISO Container: 480 sq. ft.

What About Water, Sewer, and Power?

WHS is a full-solution integrator. Available systems include:

- Solar and Wind Power
- Battery Power Storage
- Potable Water Processing
- Grey/Blackwater Processing and Storage

Where is it Made?

WHS manufactures RDS and other products in Sanford, Florida (near Orlando). Most WHS suppliers are also based in Florida. WHS is American owned, American operated.

Is the RDS in Use? Where?

RDS is a fielded solution. The RDS at Tyndall AFB has endured two hurricanes and seven tropical storms. Envisioned as a solution for housing during humanitarian crises, the RDS has proven popular with government and military users including USSOCOM, US Marines, US Navy, FEMA and others. RDS is deployed in USA, Africa, Europe, and the South Pacific.

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