

Building Shelves for your Emergency Equipment Cache

Scouting, Labor Unions and other volunteer or youth groups often need community service projects to satisfy one or more requirements for advancement through their own programs. AVERT has prepared the following plans to help your CERT team develop your emergency/disaster cache while also providing volunteer and community service opportunities for others in your neighborhood. The plans presented below were designed to be installed in an 8 ft X 8 ft X 20 ft Land-Sea Container.

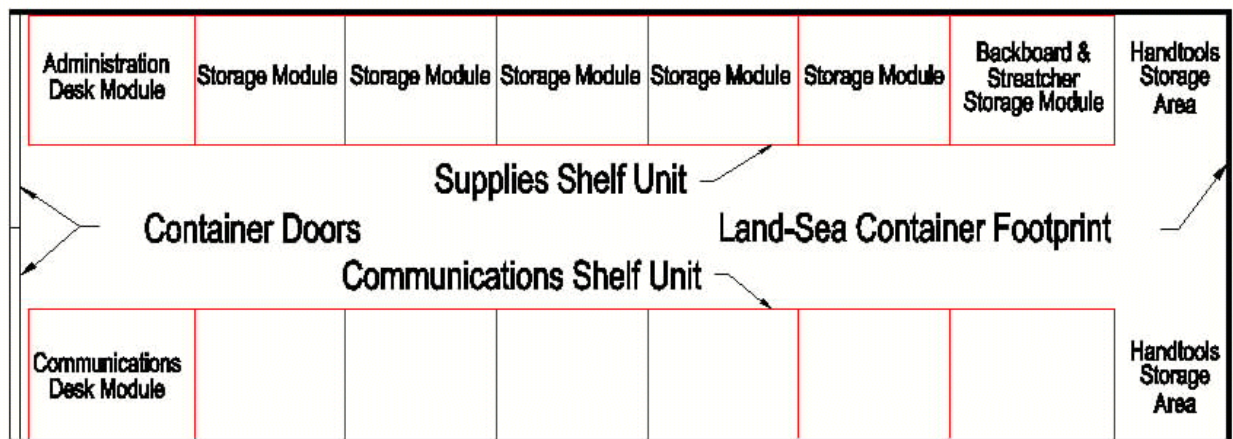
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To begin a project, contact your local CERT Team Leaders and Municipal Emergency Manager to register your project and determine how many units should be produced. If you are a nonprofit 501(c)(3) organization, contact your local lumber yard and offer them the opportunity to donate materials for your project. If you are not part of a nonprofit group, ask the CERT Team Leader or the Municipal Emergency Manager to request a donation.

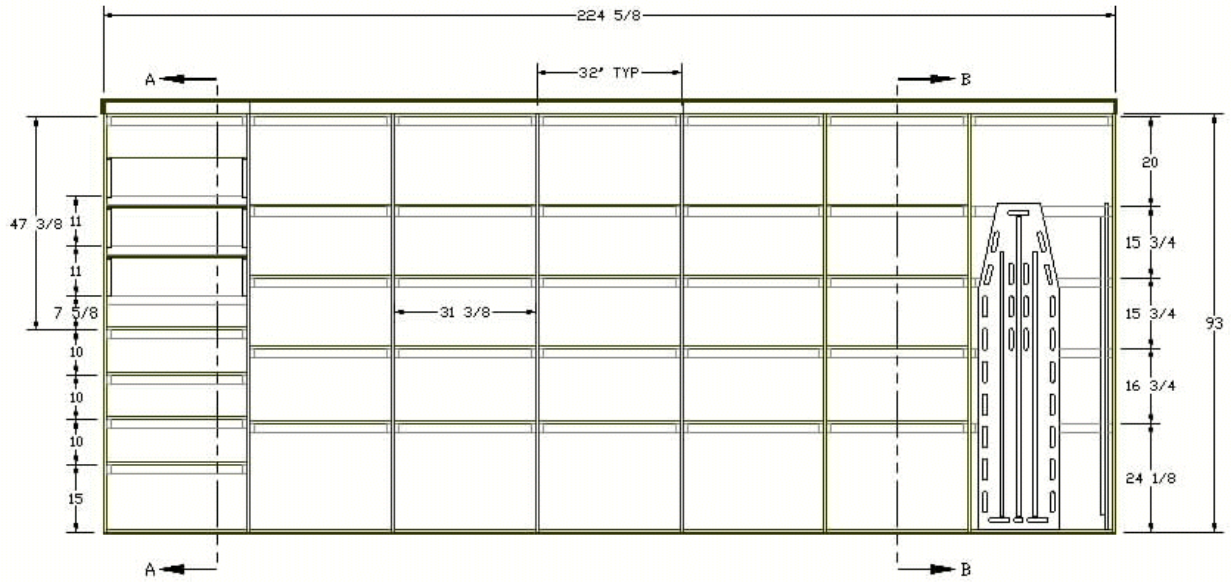
Once the project is approved, and you have received the necessary materials, gather the following tools: hammer, circular saw, sander, 3 inch and 2 inch paint brushes, tape measure or other ruler, framing square and a carpenter's pencil. You will also need a drop cloth or other tarp and plenty of towels for cleaning up spills. A typical project might average material costs of about \$500.00 to \$650.00, if no donations were obtained.

See Figure 1 (below) for a Typical Layout of a Land-Sea Container Cache. Note that the dimensions in the figures are in inches. Also note that these plans do not include mounting instructions or materials. Shelf units should be attached by bolts to the walls of the container. Where bolts protrude from the container's exterior walls, use a sealant that will protect against corrosion from the elements.

Figure 1: Plan View

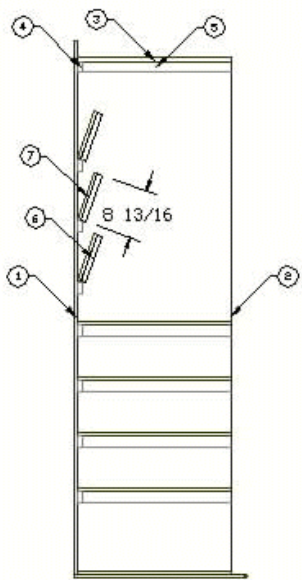


The following drawings (Figures 2, 3 & 4) represent the Supplies Storage Shelf Unit. This unit stores such items as medical or cleaning supplies, water bottles, and other items between 15 and 19 inches in height. It also provides a work station for the team leader or logistics leader. Cargo nets, bungee chords or 1" x 3" wood fascia boards may be attached to the compartment openings to prevent spillage or damage during an earthquake.

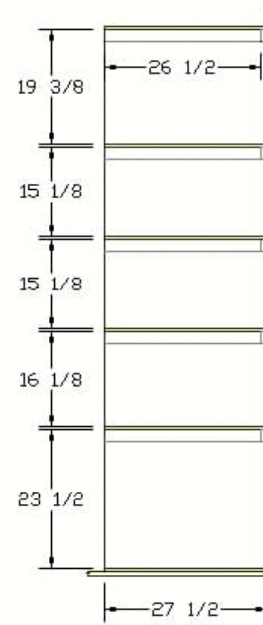
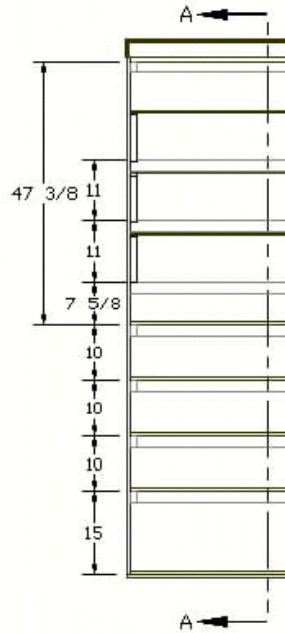


ELEVATION VIEW - SUPPLIES SHELF UNIT

Figure 2 - Elevation



SECTION A-A
END VIEW OF DESK AREA



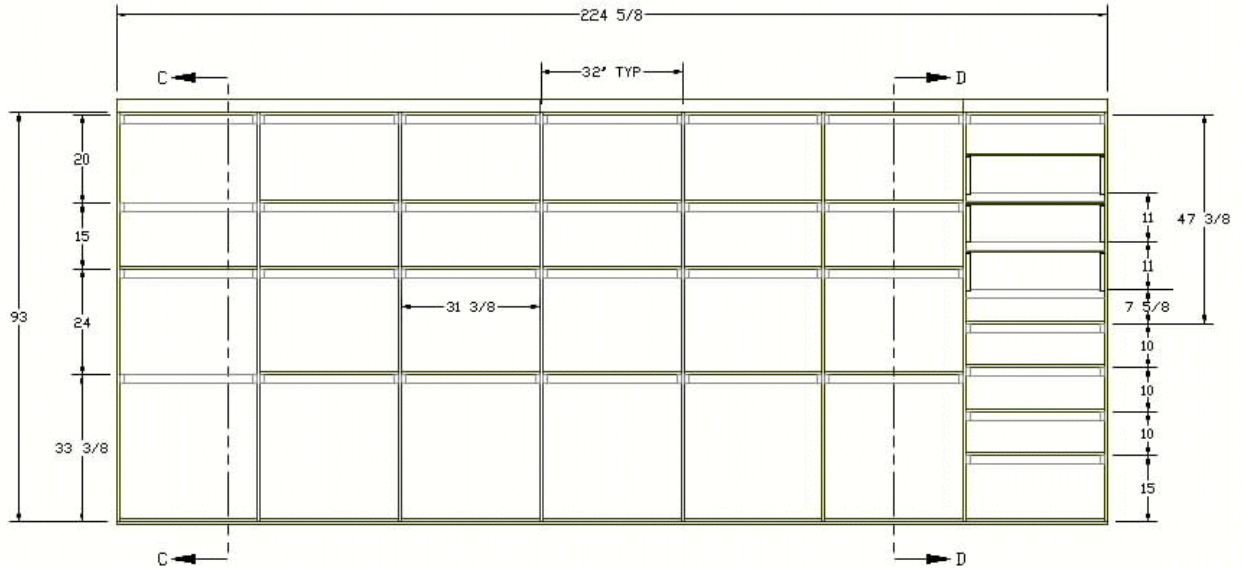
SECTION B-B
CLEARANCE HEIGHT AND DEPTH

Figure 3 - Sections

SUPPLIES SHELF UNIT PARTS LIST		
FN	QTY	DESCRIPTION
1	5	5/8" X 4' X 8' Plywood Backing
2	8	5/8" X 27 1/2" X 93" Plywood Side Panels
3	42	5/8" X 31 3/8" X 27 1/2" Plywood Shelves
4	38	1" X 2" X 31 3/8" Back Shelf Support
5	70	1" X 2" X 26 1/2" Side Shelf Support
6	6	1" X 1" X 8 13/16" Clipboard Rack Support
7	3	5/8" X 31 3/8" X 9" Plywood Clipboard Rack
8	168	1" Long Wood Screw
9	124	1 3/8" Long Wood Screw
10	52	2 1/8" Long Wood Screw
11	6	1" Long Sheet Metal Screw #10
12	6	1 1/8" Long Sheet Metal Screw #10
13	32	3/4" Long Steel Angle Bracket Screw
14	28	Steel Angle Bracket
15	AR	Wood Glue

Figure 4 - Parts List

The following drawings (Figures 5, 6 & 7) represent the Communications Shelf Unit. This unit stores such items as generators, scene lighting, ten-gallon water containers and the like. This unit may be customized by adding or removing shelves to accommodate odd sized equipment. It also provides a desk area for the team communicator. Cargo nets, bungee chords or 1" x 3" wood fascia boards may be attached to the compartment openings to prevent spillage or damage during an earthquake. Contact your local ARES or RACES Ham Radio organization for technical advise when installing the communications equipment.



ELEVATION VIEW - COMMUNICATIONS EQUIPMENT SHELF UNIT

Figure 5 - Elevation

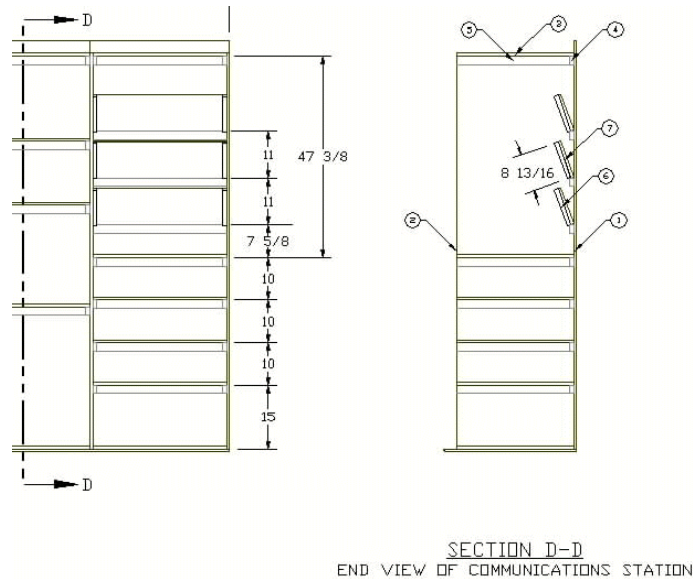


Figure 6 - Sections

COMMUNICATIONS EQUIPMENT SHELF UNIT PARTS LIST		
FN	QTY	DESCRIPTION
1	5	5/8" X 4' X 8' Plywood Backing
2	8	5/8" X 27 1/2" X 93" Plywood Side Panels
3	36	5/8" X 31 3/8" X 27 1/2" Plywood Shelves
4	32	1" X 2" X 31 3/8" Back Shelf Support
5	58	1" X 2" X 26 1/2" Side Shelf Support
6	6	1" X 1" X 8 13/16" Clipboard Rack Support
7	3	5/8" X 31 3/8" X 9" Plywood Clipboard Rack
8	144	1" Long Wood Screw
9	102	1 3/8" Long Wood Screw
10	42	2 1/8" Long Wood Screw
11	6	1" Long Sheet Metal Screw #10
12	6	1 1/8" Long Sheet Metal Screw #10
13	32	3/4" Long Steel Angle Bracket Screw
14	28	Steel Angle Bracket
15	AR	Wood Glue

Figure 7 - Parts List