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Pre-built wood components stored in the basement may be assembled and filled with bricks or concrete blocks for emergency protection.

HOME FALLOUT SHELTER
lean-to shelter
basement location plan f
1x6 T&G BOARDS, GLUE a NAIL TO 2x8's WITH 2-#10 x 2' BARBED SHANK LARGE HEAD ROOFING NAILS EACH BOARD.

NOTE: SINGLE UNIT SHOWN. 3 UNITS REQUIRED.

ISOMETRIC OF LEAN-TO UNIT

SECTION A

FRONT ELEVATION

END ELEVATION

PLAN

STACK 54 CONC. BLKS IN ENTRY AFTER SHELTER IS COMPLETED

STACK 54 CONC. BLKS IN ENTRY AFTER SHELTER IS COMPLETED
GENERAL INFORMATION

This shelter is designed to provide protection from the effects of radioactive fallout in the below grade basement of an existing house. Its advantages are low cost, simplicity of construction, general availability of materials, and the fact that it may be easily disassembled.

TECHNICAL SUMMARY

This shelter design will provide 54 square feet of area and approximately 216 cubic feet of space. It will house three persons. The shelter length can be increased by increments of 3 foot panels. The height may be increased by the use of more materials. This increase will be limited by basement height and handling of the panels.

The materials necessary to construct this shelter should be available from retail lumber yards.

Natural ventilation is obtained by omitting 3 blocks from the top of the entranceway closure and by leaving a 1-1/2 in. gap between the end of the shelter and the basement wall.

Construction time should not exceed 20 man-hours when all the materials are on hand at the shelter location. It is desirable to preassemble the lean-to units and store them in a corner. They can then be installed in the best corner of the basement and stacked with blocks in 1 hour.

MATERIALS LIST

<table>
<thead>
<tr>
<th>Item</th>
<th>Actual Number Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masonry:</td>
<td></td>
</tr>
<tr>
<td>4” x 8” x 16” solid concrete masonry units or 290 blocks or 2-1/4” x 4” x 8” solid bricks 1740 bricks</td>
<td></td>
</tr>
<tr>
<td>Lumber: (“construction” or “No. 1” grades or better)</td>
<td></td>
</tr>
<tr>
<td>stringers 2 x 8 x 9’-7” (45” diag. cut at both ends) 9 pieces</td>
<td></td>
</tr>
<tr>
<td>boards 1 x 6 x 3’-0” T &amp; G (square edge may be used) 69 pieces</td>
<td></td>
</tr>
<tr>
<td>1 x 10 x 3’-0” 1 piece</td>
<td></td>
</tr>
<tr>
<td>2 x 10 x 3’-0” 1 piece</td>
<td></td>
</tr>
<tr>
<td>blocking 2 x 8 x 1’-3-1/2 stress-grade lumber 6 pieces</td>
<td></td>
</tr>
<tr>
<td>4 x 4 x 1’-3-1/2” 3 pieces*</td>
<td></td>
</tr>
</tbody>
</table>

*Rip lengthwise at 45” to provide the 6 pieces required
Hardware:

- 3/8" diam. x 2-1/4" lag screws and washers 12
- 3/8" bolt size lead expansion shield, 9/16” x 2” hole 12
- #10 ga. x 2” barbed shank, large head roofing nails 3 pounds
- 16D common nails 1 pound
- glue, protein emulsion (must develop 450 lbs. /sq. in.) 1-1/2 pints
- #5 x 3” concrete nails 36

Special tools:

- 9/16” star drill to install anchor bolts into concrete basement floor and walls

CONSTRUCTION SEQUENCE

1. Prepare shelter units.
   b. Fit in, glue and nail remaining bottom boards with large head roofing nails.
   c. Units can be stored assembled, if desired, to save time. It is desirable to locate lag screw holes and install lead shields in floor and basement wall.

2. Assemble shelter (emergency actions)
   a. Turn this panel right side up and place it in its permanent position. Fasten the panel to the floor with lag screws in lead shields leaving a 1-1/2” gap between the end of the shelter and the basement wall. If lead shields have not been installed ahead of time, use concrete nails as shown in the detail.
   b. Fasten in sequence as many panels as are to be used. Nail to wall with concrete nails.
   c. Fill panels with 2 layers of solid concrete block or brick starting at bottom.
   d. Build end wall of 76 stacked blocks 456 bricks.
   e. Place 50 blocks or 300 bricks in the shelter for emergency closure of entranceway.