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SurvivalRing has as its goal the ideal of being the leading source of survival, preparedness, and self reliance information on the Internet. Linkage, assistance, and creation of digital content in areas that until now have only been hinted at or impossible to find, is being added to everyday via the Survival-Ring website and email lists.

Thousands of hours of searching, writing, and communications have been spent collecting over 2 gigabytes of digital content, as well as tens of thousands of pages of hard copy original public domain material in the areas of civil defense, survival, training, and preparedness, from all over the globe. As much as possible is being put online at his website at

http://www.survivalring.org



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There are too many situations and incidents that can come to pass in everyday life, that when time is taken to learn and skills obtained, can mean the difference between life and death. Sept. 11, 2001 proved to the world that no matter how safe a person thinks they may be, death and injury can come from the most UN-LIKELY place, at any time. The documents presented in this series of digitized works, can help the average person with the knowledge within, to know how to save those persons closest to them in REAL disaster. Help spread this idea of sharing SURVIVAL INFORMATION.

If you have documents from any era, on any disaster or civil defense area, PLEASE contact Richard at his email address of **RAFLEET@AOL.COM**. Check the website for the LATEST additions to the CIVIL DEFENSE NOW online library archive. All data online, and much more, is also available on CD-ROM. Information is available at the website on how to obtain it. Thanks for your support, and enjoy the information contained on the following pages. Share them with those who will learn from them and teach what they know to others.

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#### MILWAUKEE CITY CIVIL DEFENSE ADMINISTRATION ESTIMATE OF GENERAL COST OF MATERIALS FOR THE BASEMENT, CONCRETE BLOCK, 6 PERSON, FAMILY FALLOUT SHELTER

#### by Robt. E. Weigend, P.E.

MATERIALS	OCDM Shelter Dwg.No.SC-1 Booklet MP-15	Milwaukee juxe Fout Shelter
4" x 8" x 16" Solid Conc. Blk. @ 23¢ each	\$116.15	-
8" x 8" x 16" Hollow Core Conc. Blk. @ 23¢ each		\$ 2.99
12" x 8" x 16" Hollow Core Conc. Blk. @ 30¢ each		45.00
Mortar Mix @ \$1.95/bag	15.60	
Cement @ \$1.50/sack		18.00
3/4" Crushed Bank Run Gravel @ \$2.00/cu.yd.		12.00
4" x 4" Posts and Beam @ 24¢/lin. ft.	9.36	
2" x 6" Joists @ 17¢/lin. ft.	13.60	
5/8" Plyscore @ \$7.14/4' x 8' sheet	21.42	1
3/4" Plywood @ \$10.35/4' x 8" sheet		31.05
l/2" x 7" Bolts with Expansion Sleeves @ 34¢ each	3.40	
16 penny nails @ 22¢/lb.	,66	
6 penny nails @ 25¢/lb.		
3" x 3" x 1/4" Steel Angle Iron @ 69¢/lin.ft.	- <u></u>	44.73
Total General Cost of Materials	\$180.94	\$153.77
CONSTRUCTION INFORMATION		

THE MILWAUKEE DELUXE FALLOUT SHELTER is similar to the OCDM model described in Booklet MP-15, but it is <u>easier to build</u> and it offers <u>double the protection</u> at a <u>lower cost</u> than the OCDM standard basement family fallout shelter besides giving an <u>unemcumbered wall area</u>.

The shelter is first located and the basement floor and walls must then be scored or chipped to provide a bond for the cement. The bottom course of 12" Hollow Core Concrete Block is then layed in place dry.

"Soil Cement" is then mixed as follows: 1 sack of Portland Cement is torn open at its end and the cement is dumped onto a working space on the basement floor; the empty sack is then filled 6 times with 3/4" Crushed Bank Run Gravel and these 6 sacks of gravel are added to the pile of cement; the dry contents of the pile must be mixed thoroughly with a shovel and shaped into a "doughnut-ring" on the floor; NOT MORE THAN 6 gallons of Water is then poured, a little at a time, into the center of the "doughnut-hole;" the dry mixture of cement and gravel is then pulled, a little at a time, into the water where it is mixed to a working consistency, not so stiff that it will stand by itself, yet not so wet that it will flow like soup. [Not all the 6 gallons of water may be used in one batch of Soil Cement, because the gravel may already contain moisture which might then make the mix too "soupy.")

The Soil Cement is shoveled into the cores of the concrete block where it is tamped and rodded (a steel rod about 3/4" in diameter and 18" long is plunged approximately 20 times into the filled cores of each block to get rid of all spaces or voids formed when the Soil Cement is shoveled into them). The filled blocks should be rocked lightly to make the Soil Cement should be kept an inch or so below the top of the blocks so as to afford a bonding space for the Soil Cement in the next course of blocks.

The walls of the Deluxe Fallout Shelter should be built up level and plumb until 9 courses are in place before starting construction of the Steel Angle Iron frame and roof. The ends of some of the 10th course blocks must be chipped back to fit the curved part of the  $3^* \times 1/4^*$  leg of the angles before the steel is set between the blocks. Holes to receive the angles must also be carefully cut into the existing back wall so that the angles will be level when cemented into place along with the 10th course of block.

The entire plywood roof should be cut to fit snugly in place with the long dimension of the sheet crossing as many angles as possible before the course of  $8^{\circ}$  blocks is layed on wall number 1. The plywood and top course of block should be covered with plastic sheets (tablecloths) to form a moisture barrier before 16° of dry 3/4° Crushed Bank Run Gravel is shoveled on top of the shelter and rammed into place. The final blocks can then be layed, draped with plastic sheeting and backfilled to finish off your Milwaukee Deluxe Fallout Shelter.

The size of the Milwaukee Deluxe Fallout Shelter can easily be increased (with no decrease in strength or protection) by lengthening wall number 1 in the ratio of 3 blocks and 3 angles plus plywood and gravel for every 2 additional persons. This shelter can also be reinforced by inserting rods, pipes, bars, or angles in the cores of the block after the Soll Cement has been tamped and rodded.

### YOUR ONE DEFENSE AGAINST FALLOUT IS AN ADEQUATE FALLOUT SHELTER

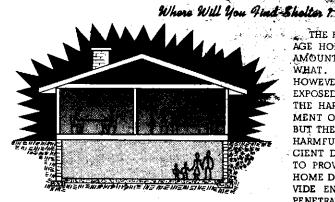
Milwaukee's Deluxe FALLOUT SHELTER

# Radiation Decays And Dies - Don't Die With It

DEADLY RADIOACTIVE FALLOUT IS A THREAT TO SURVIVORS OF A NUCLEAR ATTACK ANYWHERE IN OUR COUNTRY. UNTLE THIS DEADLY RADIATION LEVEL DECAYS, YOUR LIFE AND THE LIVES OF YOUR FAMILY ARE THREAT-ENED. RADIATION INTENSITY IS LOWERED BY MASS--AND THE HEAVIER THE MATERIAL BETWEEN YOU AND THE RADIOACTIVE FALLOUT, THE MORE PRO-TECTION YOU HAVE.

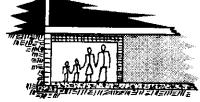
## Now Much Radiation Is Potal ?

RADIATION IS MEASURED IN ROENTGENS. DURING THE TWO CRITICAL WEEKS FOLLOWING A NUCLEAR ATTACK, A PERSON IN AN AREA COVERED BY RADIOACTIVE FALLOUT COULD HAVE HIS BODY EXPOSED TO A TOTAL OF 10,000 ROENTGENS OF RADIOACTIVITY (AND 700 ROENTGENS IS CONSIDERED A FATAL EXPOSURE!).



THE FIRST FLOOR OF AN AVER-AGE HOME WILL CUT DOWN THE AMOUNT OF RADIATION SOME-WHAT. IN TWO WEEKS TIME, HOWEVER, YOU WOULD STILL BE EXPOSED TO A PATAL DOSE OF THE HARMFUL RAYS. THE BASE-MENT OF THE HOME IS BETTER, BUT THE TOTAL EXPOSURE TO THE HARMFUL RAYS IS STILL SUFFI-CIENT DURING THE TWO WEEKS TO PROVIDE A FATAL DOSE. THE HOME DOES NOT OF ITSELF PRO-VIDE ENOUGH BARRIER TO THE PENETRATING RAYS.

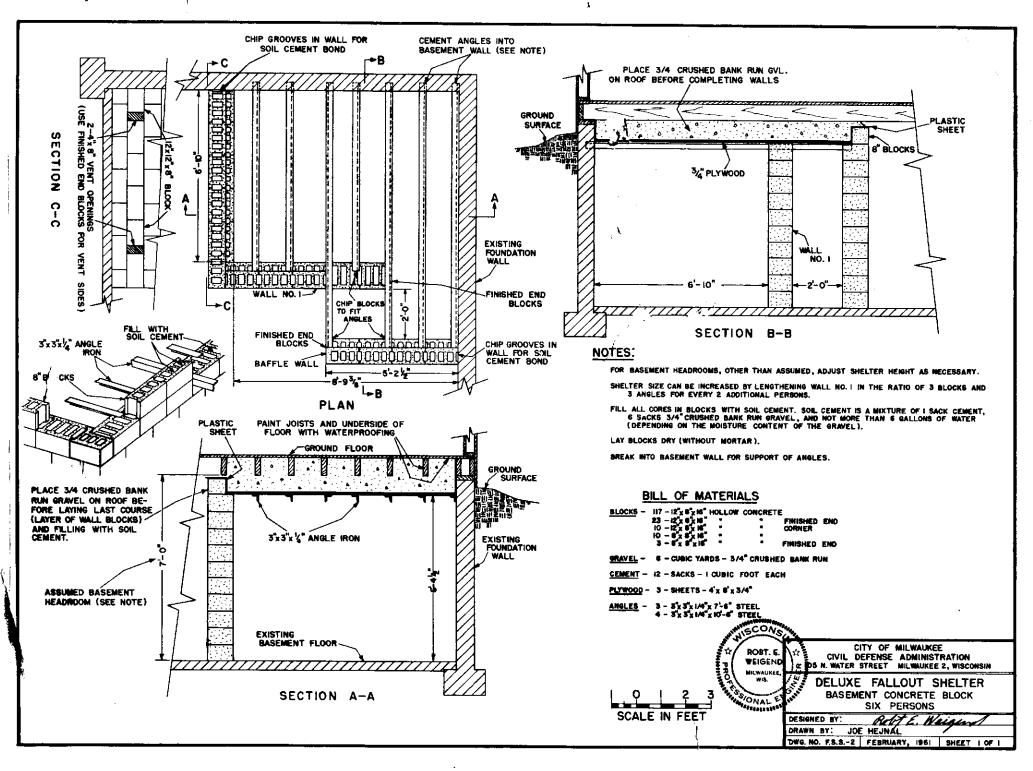
The Answer – Propared Shelter



THE ONE DEFENSE AGAINST RADI-OACTIVE FALLOUT IS AN ADEQUATE FALLOUT SHELTER. THE <u>MILWAUKEE</u> <u>DELUXE</u> FALLOUT SHELTER USES A COMBINATION OF CONCRETE AND BANK RUN GRAVEL TO PROVIDE A MASS NECESSARY TO STOP THE

HARMFUL RAYS. IT IS EASY TO BUILD AT A REASONABLE COST. A PERSON IN THIS SHELTER WOULD RECEIVE LESS THAN 1% OF THE OUTSIDE DOSE OF RADIATION. THUS, EVEN IF THE OUTSIDE RADIATION AMOUNTED TO AS MUCH AS 10,000 ROENTGENS DURING THE TWO CRITICAL WEEKS FOLLOW-ING AN ATTACK, THESE HARMFUL RAYS WOULD NOT SERIOUSLY AFFECT PERSONS INSIDE THE PREPARED SHELTER.

> Milwaukee City Civil Defense Administration 105 North Water Street Milwaukee 2, Wisconsin



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