



WALL CONSTRUCTION	WALL CONSTRUCTION		CEILING CONSTRUCTION		VAPOR BARRIER	ZONE			
	WALL UNITS	INSULATION	INSIDE FINISH	APPR. R. VALUE			INSULATION	INSIDE FINISH	APPR. R. VALUE
I	8" con. masonry or struct. clay tile	none	3/4" D & M boards	4.48	3/2" Insul. board	none	6.74	Ceiling	2 (average)
II	8" con. masonry or struct. clay tile	3/2" Insul. board	1/4" asbestos cement, hard board or plywood	5.93	3/2" Insul. board	3/4" D & M boards	7.87	Walls & ceiling	1 (average)
III	8" con. masonry or struct. clay tile	Voids filled with granular insul.	none	5.00	3" dry shavings	1/4" asbestos cement, hard board or plywood	12.10	Walls & ceiling	1 (cold part)
IV	4" con. masonry or struct. clay tile	none	1/2" cement plaster	3.75	none	1/2" D & M boards	5.68	none	2 (warm part)
IV	4" con. masonry or struct. clay tile	Cavity filled with granular insulation	none	6.94	2" blanket, bat or fill insulation	1/4" asbestos cement, hard board or plywood	12.10	Walls & ceiling	1 (cold part)
V	4" con. masonry or struct. clay tile	none	3/4" D & M boards	5.58	3/2" Insul. board	1/4" asbestos cement, hard board or plywood	7.13	Ceiling	1 (warm part) 2 (cold part)
VI	4" con. masonry or struct. clay tile	3/2" Insul. board	1/4" asbestos cement, hard board or plywood	7.18	Reflective insul. with air space each side	3/4" D & M boards	9.00	Walls	1 (cold part)

Ceiling constructions need not be used with wall construction shown and may be used with any other wall construction suitable for the same zone.

NOTE 5:  
 (1) Vapor barriers to be building paper infused and coated with asphalt or metal foil.  
 (2) Vapor barrier to be 2 coats asphalt base aluminum-flake paint applied to inside surface.  
 (3) Plywood to be exterior type.  
 (4) In hurricane areas, top masonry walls with 8" x 8" concrete beam reinforced over openings.  
 (5) 8"-0" to be used with Manger (A).  
 8"-6" to be used with Manger (B) or (C).  
 See Dwg. 5661 for details.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND  
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

BARN WALL & CEILING CONSTRUCTION  
 2-STORY MASONRY BARN

U.S.O.A. '48 EX. 5671 SHEET 1 OF 1

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