

MAP SHOWING TEMPERATURE ZONES

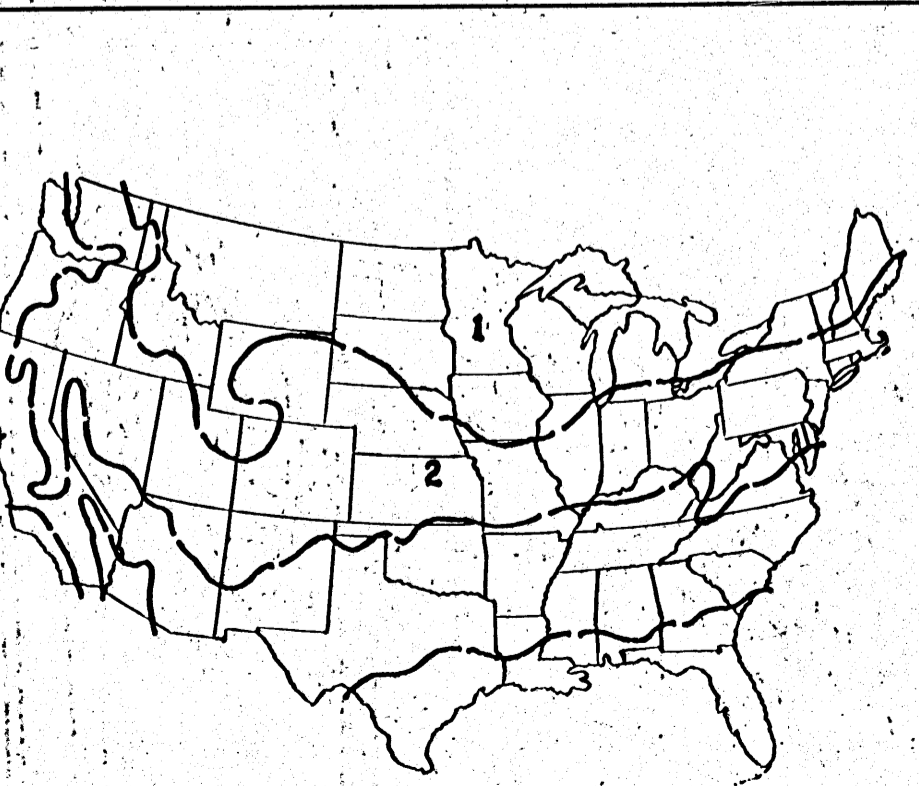


TABLE DESCRIBING SUGGESTED WALL & CEILING CONSTRUCTION FOR VARIOUS TEMP. ZONES

ZONE	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 1/2" insul. board	none	6.74	Ceiling	2 average
II	8" con. masonry or struct. clay tile	2 1/2" insul. board	1/4" asbestos cement, hard board or plywood	5.93	2 1/2" 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	3/4" cement plaster	3.75	none	3/4" 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	2 1/2" 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	2 1/2" insul. board	1/4" asbestos cement, hard board or plywood	7.18	Reflective insul. with airspace 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:**  
 (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  
 STATE OF MISSISSIPPI  
 MISSISSIPPI STATE UNIVERSITY  
 AND  
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

**BARN WALL & CEILING CONSTRUCTION**  
 1 1/2-STORY MASONRY BARN

U.S.D.A. '49 EX. 5670 SHEET 1 OF 1