



MAP SHOWING TEMPERATURE ZONES



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

WALL UNITS	WALL CONSTRUCTION			CEILING CONSTRUCTION			VAPOR BARRIER	ZONE
	INSULATION	INSIDE FINISH	R-VALUE	INSULATION	INSIDE FINISH	R-VALUE		
I 8" concrete masonry or structural clay tile	none	3/4" D & M boards	4.48	1/2" insul board	none	6.74	Ceiling	2 (average)
II 8" concrete masonry or structural clay tile	1/2" insul board	1/2" concrete cement hard board or plywood	5.93	1/2" insul board	3/4" D & M boards	7.87	Walls & Ceiling	1 (average)
III 8" concrete masonry or structural clay tile	voids filled with granular insul.	none	5.00	5" dry shavings	1/2" concrete cement hard board or plywood	12.10	Walls & Ceiling	1 (cold part)
IV 8" concrete masonry or structural clay tile	none	1/2" cement plaster	3.75	none	3/4" D & M boards	5.68	Walls & Ceiling	Plenum part
V 8" concrete masonry or structural clay tile	ceiling filled with granular insul.	none	6.94	2" plaster, part or full insul.	1/2" concrete cement hard board or plywood	12.10	Walls & Ceiling	1 (cold part)
VI 8" concrete masonry or structural clay tile	1/2" insul board	1/2" concrete cement hard board or plywood	7.18	1/2" insul board	3/4" D & M boards	9.00	Ceiling	1 (cold part)

NOTES:

- (1) Vapor barrier to be building paper regulated one side and 2 coats of No. 15 or 17 aluminum-flake paint applied to inside surface.
- (2) Plywood to be exterior type.
- (3) Plywood to be exterior type.
- (4) In hurricane areas top masonry walls with 8" x 8" concrete beam reinforcement openings.
- (5) 8" x 8" to be used with Manager 8 or 8-6" to be used with Manager 8 or 8-6" See Div. 5661 for details.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE

BARN WALL & CEILING CONSTRUCTION

2-STORY MASONRY BARN

U.S.D.A. 48 EX. 8671 SHEET 1 OF 1