



CONCRETE MASONRY & FRAME

STRUCTURAL CLAY TILE

CONCRETE MASONRY

STRUCT. CLAY TILE

CAVITY WALL CONCRETE MASONRY OR STRUCT. CLAY TILE UNITS



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	RFR. VALUE	INSULATION	INSIDE FINISH	RFR. VALUE		
I 6" con. masonry or structural clay tile	none	3/4" D & M boards	4.48	3/4" insul. board	none	6.74	Ceiling	2 over-logs
II 6" con. masonry or structural clay tile	3/4" insul. board	1/2" asbestos cement hard board or plywood	5.33	3/4" insul. board	3/4" D & M boards	7.87	Walls & ceiling	1 over-logs
III 6" con. masonry or structural clay tile	voids filled with granular insul.	none	5.00	3" dry-shrinkings	1/2" asbestos cement hard board or plywood	12.10	Walls & ceiling	1 cold part
IV 6" con. masonry or structural clay tile	none	3/4" cement plaster	3.75	none	3/4" D & M boards	5.68	none	2 warm part
IV 6" con. masonry or structural clay tile	con. masonry or structural clay tile	con. masonry or structural clay tile	6.34	2" bonded, 1/2" or 1" insul.	1/2" asbestos cement hard board or plywood	12.10	Walls & ceiling	1 cold part
V 6" con. masonry or structural clay tile	none	3/4" D & M boards	5.58	3/4" insul. board	1/2" asbestos cement hard board or plywood	7.13	Ceiling	1 warm part
VI 6" con. masonry or structural clay tile	3/4" insul. board	1/2" asbestos cement hard board or plywood	7.18	1/2" insul. board	3/4" D & M boards	9.00	Walls	1 cold part

NOTE: (1) Vapor barrier to be built up paper-jointed (2) Insulation board to be 1/2" or 1" thick of base aluminum - fide 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" to be used with Manger (A) or (B) or (C). 6" to be used with Manger (D). See Dwg. 3661 for details.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

BARN WALL & CEILING CONSTRUCTION

1 1/2" STORY MASONRY BARN

U.S.D.A. 48 EX. 8870 SHEET 1 OF 1

SUGGESTED WALL CONST. FOR VARIOUS TEMPERATURE ZONES

