



MAP SHOWING TEMPERATURE ZONES	TABLE DESCRIBING SUGGESTED WALL & CEILING CONSTRUCTION FOR VARIOUS TEMP. ZONES									
	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	4.40	3/4" insul board	Asbestos cement or hard board	5.55	Ceiling	2(warm part)	
	II 8" con masonry or struct clay tile	3/4" insul board	Asbestos cement hard board or plaster	5.93	2" commercial or 3" dry shavings	Wood, asbestos cement, hard board or plywood	10.60	Walls & ceiling	2(cold part) 1(warm part)	
	III 8" con masonry or struct clay tile	voids filled with granular insul.	optional	5.00	"	"	"	10.60	Walls & ceiling	1
	IV 8" con masonry or struct clay tile	none	3/4" cement plaster	3.75	3/4" insul. board	Asbestos cement, or hard board	5.55	Ceiling	2(warm part)	
	IV 8" con masonry or struct clay tile	Cavity filled with granular insul.	optional	7.00	2" commercial or 3" dry shavings	Wood, asbestos cement, hard board or plywood	10.60	Walls & ceiling	1	
	V 8" con masonry or struct clay tile	none	3/4" D & M boards	5.73	"	"	"	10.60	Ceiling	2
VI 8" con masonry or struct clay tile	3/4" insul board	Asbestos cement, hard board or plaster	7.18	"	"	"	10.60	Walls & ceiling	1	

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) 8'-0" to be used with Manger (A) Bar (C) 8'-6" to be used with Manger (B) Bar (C). See Dwg. 5661 for details.
 (5) For details of roof trusses see dwgs. EX. 5658 for 34 ft. & 36 ft. barns and EX. 5665 for 38 ft. barns.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
 AND
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING
 BARN WALL & CEILING CONSTRUCTION
 1-STORY MASONRY BARN
 U.S.D.A. '49 EX. 5669 SHEET 1 OF 1
 51619

CONSTRUCTION