SUGGESTED CEILING SECTIONS

1 1/2 & 2 Story Barns
- 8.54 D&M flooring
- Reflective insulation (shiny surface both sides)
- R-16.77 U-0.08

1 Story Barns
- 8.54 D&M flooring
- 2" batt blanket or fill insulation or 3" dry shavings vapor barrier
- R-10.6 U-0.094
- Ceiling finish (any type shown on this sheet)

Gold areas of ZONE 1 (large or small barns)

2 Dry shavings
- Vapor barrier
- Ceiling finish (any type shown on this sheet)
- R-8.13 U-0.123

Average areas of ZONE 2 (large or small barns)

R-12.09 U-0.083
- 2" batt blanket or fill insulation or 3" dry shavings vapor barrier
- Ceiling finish (any type shown on this sheet)
- R-8.94 U-0.144

Reflective insulation (shiny surface both sides)
- R-6.74 U-0.148
- R-5.32 U-0.10

Vapor barrier
- R-6.55 U-0.18

Average areas of ZONE 2 (large or small barns)

MAP SHOWING TEMPERATURE ZONES

SUGGESTED WALL SECTIONS

Bevel siding
- R-6.07 U-0.165
- R-8.83 U-0.027
- Asbestos-cement
- 1/2" gypsum sheathing
- R-8.54 D&M boarding
- Vapor barrier
- R-16.77 U-0.08

Gold areas of ZONE 1 (large or small barns)

Cold areas of ZONE 1 (large or small barns)

Warm areas of ZONE 1 (large or small barns)

Average areas of ZONE 2 (large or small barns)

Cold areas of ZONE 2 (large or small barns)

Warm areas of ZONE 2 (large or small barns)

Asbestos-cement, asbestos, or metal siding

R-4.68 U-0.0268

Building paper
- R-6.00 U-0.134

Average areas of ZONE 1 (large or small barns)

Average areas of ZONE 2 (large or small barns)

Average areas of ZONE 2 (large barns)

Warm areas of ZONE 2 (large barns)

NOTE: These wall and ceiling sections show types of construction suitable for the temperature zones shown on the map of right.

In most cases the insulating value is minimum for the part of zone indicated.

Vapor barriers shall be either shiny-surfaced building paper infused with asphalt or metal foil. When insulation board is used as inside finish, the vapor barrier shall be two coats of asphalt base aluminum-flake paint applied to the inside surface of the board.

MAP SHOWING TEMPERATURE ZONES

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE

BARN WALL AND CEILING SECTIONS
FRAME CONSTRUCTION

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