

THERMAL AND MOISTURE CONTROL IN INSULATED ASSEMBLIES—APPLICATIONS

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IN THE ORIGINAL planning phase of buildings, the thermal and moisture design and long-term performance must be considered. Installation of adequate insulation and moisture control assemblies during construction can be much more economical than installation later. Proper selection of thermal insulation and moisture control assemblies must be based on

- Thermal and moisture properties of the materials
- Other properties required by the location of the materials
- Space availability
- Compatibility of the materials with adjacent materials
- Interior and exterior climate
- Performance expectations

Types of thermal insulation, their properties, economic thickness, and principles of moisture control and moisture transport are discussed in Chapters 23 and 25. Insulation in various assemblies that can be used interchangeably for a given construction, as well as specific moisture control options for various climatic regions, are discussed in this chapter. For specific industrial applications of insulated assemblies see the appropriate chapter in other ASHRAE Handbooks. In the 1998 *ASHRAE Handbook—Refrigeration*, for refrigerators and freezers, see Chapters 47, 48, and 49; for insulation systems for refrigerant piping, see Chapter 32 and this chapter; for refrigerated facility design, see Chapters 13 and 39; for trucks, trailers, and containers, see Chapter 29; for marine refrigeration, see Chapter 30; and for environmental test facilities, see Chapter 37.

GENERAL BUILDING INSULATION PRACTICE

WOOD FRAME CONSTRUCTION

Wood framing members and structural panels such as plywood, particleboard, and fiberboard only provide limited resistance to heat flow; therefore, wood frame construction is well suited to application of both cavity insulation and surface-applied insulation. The most common materials for cavity insulation are glass fiber, mineral fiber, cellulose, and spray-applied foams. For surface applications, a wide variety of sheathing insulations exists.

The preparation of this chapter is assigned to TC 4.4, Building Materials and Building Envelope Performance.

Roof decks of wood, metal, or preformed units may be insulated on top of or below the deck.

Attic construction with conventional rafters and ceiling joists or roof trusses can be insulated between framing members with batt, blanket, or loose-fill insulation. In warm climates, radiant barriers, low emissivity surfaces, and reflective insulations further reduce cooling loads. The Radiant Barrier Attic Fact Sheet (DOE 1991) provides information on climatic areas best suited for radiant barrier applications. This document also provides comparative information on the relative performance of these products versus conventional fibrous insulations.

The cavities of **cathedral ceiling construction** (in which the ceiling insulation and interior finish are parallel to the roof plane) can be insulated using glass fiber, cellulose, rigid foam, or spray-applied insulation. The surface above cathedral ceiling framing may be insulated with insulating panels or structural insulated panels (SIPs). The placement of insulation directly beneath a sloped roof deck in standard flat-ceiling construction, with or without ventilation, has been called "cathedralized" construction.

The **wall cavities** of wood frame construction can be insulated with batt, blanket, and loose-fill or spray-applied insulation. When using insulation materials in wall applications, extra care must be taken during the installation to eliminate voids within the wall cavity. When installing loose-fill insulation during retrofits of existing construction, all cavities should be checked prior to installation for obstructions such as fire stop headers and wiring that could prevent complete filling of the cavity. In addition, the material must be installed at the manufacturer's recommended density to ensure the desired thermal performance.

In addition to being properly insulated, the **exterior envelope** of a building should be constructed to minimize airflow into or through the building envelope. Airflow may degrade the thermal performance of insulation and cause excessive moisture accumulation in the building envelope. The use and function of airflow retarders are discussed in both in Chapter 23 and in this chapter.

COLD-FORMED STEEL FRAME CONSTRUCTION

Conventional light frame construction with cold-formed steel framing has many characteristics in common with light frame wood construction. The greatest differences are the increased thermal conductivity and the dimension and shape characteristics of steel framing members. Barbour et al. (1994) and Tubaca and Gorthada (1999) found that the conductivity and framing member spacing

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