

Division 07

Modify Section Heading 07 00 00, and text in subsections 07 00 01 and 07 20 00 per the following (deletions are shown struck through and additions are double underlined). Remainder of sections in Division are unchanged.

07 00 00 THERMAL AND MOISTURE PROTECTION

Formatted: Not Highlight

07 00 01 Owner General Requirements and Design Intent

.01 General

Formatted: Not Highlight

A. Design of building envelope for new or renewed facilities shall include selection of thermal and moisture protection systems, including insulation, weather barriers, air barriers, and light colored (high heat reflective and emissive) exterior wall and roof finishes in accordance with 01 80 00 PERFORMANCE REQUIREMENTS.

Formatted: Bullets and Numbering

Field Code Changed

Formatted: Not Highlight

.04-02 Roofing Systems

- A. The University relies on proper design, materials selection, and rigid inspection for adequate performance of roofing systems. Roofing systems shall be installed according to manufacturer's recommended installation procedures.
- B. All roofing systems shall meet the appropriate FM Global criteria for wind loss prevention.
- C. All roofing systems shall have a class "A" rating as listed by Underwriters Laboratory, Inc., for fire resistance and all products shall bear the appropriate listing mark or classification marking and the company's name, trade name, trademark, or other recognized identification.
- D. Roofing systems will be reviewed with the Professional on a project-by-project basis, and the University reserves the right to change details as job conditions dictate.
- E. All roofs must have a minimum of 1/4" per foot slope.
- F. Provide special surface treatment that does not block drainage, at roof areas subject to foot traffic.
- G. The University discourages the use of APP (Atactic polypropylene) modified bitumen systems.

- H. Refer to 01 81 13 Sustainable Design Requirements related to roofing systems.
  - 1. Evaluate vegetated (green) and/or high SRI (cool) roof options and design for lowest life cycle cost.
  - 2. Coordinate design of green roofs with requirements in 33 40 00 STORM DRAINAGE UTILITIES.

Formatted: Not Highlight

Field Code Changed

Formatted: Not Highlight

Formatted: Not Highlight

Formatted: Bullets and Numbering

Formatted

Field Code Changed

Formatted: Font: (Default) Arial, 10 pt

Formatted: Not Highlight

Formatted: Bullets and Numbering

07 20 00 THERMAL PROTECTION

.01 Roof Insulation General

A. Typical design of building envelope assemblies for new or renewed facilities shall include selection of thermal insulation materials with R-values that comply with the Prescriptive Envelope Requirements in the Energy Efficiency section of the High Performance Building Standard referenced in 01 80 00 PERFORMANCE REQUIREMENTS.

Field Code Changed

1. Exceptions:

Formatted: Not Highlight

a. Existing facilities in which it is not feasible to achieve due to general construction constraints. In those cases, add as much as possible.

Formatted

b. If Performance Option is used for compliance path.

Formatted

## **.02 Roof Insulation**

- A. The University discourages the use of vegetable or cane fiber-type board insulation.
- B. Expanded plastic can be installed unprotected on concrete roof decks. On metal decks, a base layer of 5/8" moisture resistant, fire-rated gypsum board may be used prior to installation of expanded plastic insulation or a combination expanded plastic and gypsum or perlite base layer-type insulation may be used.
- C. All proposed roof insulation systems shall be reviewed by the University during the project design stage.

**END of revision**

### **Update Commentary:**

Section was updated primarily for the following reasons:

- 1) *Add cross references to Div 1 for Performance Requirements of thermal insulation.*
- 2) *Add cross reference to Div 33 Storm Drainage Utilities for coordination of green roof requirements.*