

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

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07 05 00 COMMON WORK RESULTS FOR THERMAL AND MOISTURE PROTECTION

1. Specify materials and products that contribute to meeting the requirements of LEED-NC 2.2 MR Credit5, EA Prerequisite 2 and EA Credit 1.
2. Roofing insulation to conform to Michigan Energy Code. The University prefers installation in 2 layers, (two 1" layers rather than one 2" layer).
3. Provide minimum R-50 for blown-in attic insulation.
4. Provide adequate attic insulation to prevent excessive ice dams at roof eaves.
5. Insulate heat sources, such as chimneys, recessed light fixtures and exhaust venting to prevent excess heat dissipation into attic space.
6. Roofing and roof insulation to conform to FM wind resistance requirements for this area.
7. Any sloping roof shall have the underside of deck, on which membrane rests, ventilated to outside. Insulation to be below ventilated space.
8. Single ply membrane roofing to be 60 mil EPDM, ballasted or fully adhered. Goodyear is NOT an acceptable supplier. Built up roofing to employ fiberglass felts.
9. Include vapor barrier, if required by roof design and roof material selection.
10. For sloped roofs, provide a minimum 40-mil thickness ice shield under roofing shingles. For roof slopes of 4:12 or greater extend ice shield, using standard widths as required, to overlap interior side of exterior wall by 24 inches minimum and for roof slopes less than 4:12, 36 inches minimum.
11. On sloped metal roofs use snow fence style design to control slide-off. Use of individual "snow jacks" or clips is prohibited. Avoid roof designs at building entrances that allow snow and ice to slide-off or drop onto entry walks below.
12. Roofing shingles shall be nailed with minimum .080 shank diameter; 1-1/4" long galvanized roofing nails.
STAPLING IS STRICTLY PROHIBITED.
13. All "flat roofs" shall be designed so as to provide positive drainage and prevent ponding of water. Ponding of water is defined as water that remains on roof surface after 48 hours. Roof surfaces should try to provide a minimum of 1/4" per foot of slope to roof drain locations. This is particularly critical at saddles and valleys
14. For LEED approved roofs, membrane roofs shall be any LEED acceptable color other than white.

07 10 00 DAMPPROOFING AND WATERPROOFING

07 13 00 SHEET WATERPROOFING

1. For below grade application, preferred product is Carlisle CCW MiraDRI 860/861 with CCW protection board. If Foundation drains are used, use CCW MiraDRAIN 6000/6200 drainage board in lieu of CCW Protection Board.
2. Bituthene 3000, with compatible protection and/or drainage boards, is an approved alternative product.

07 40 00 ROOFING AND SIDING PANELS

07 41 00 ROOF PANELS

07 41 13 METAL ROOF PANELS

1. On all sloped metal roof panel applications provide continuous snow fencing to prohibit snow slide-off. Style and location of snow fencing is to be reviewed and approved by the University. Individual clips of "snow jacks" are prohibited. Roof design shall not allow roof slopes coming down toward or over paths of building entry or exit.

END OF SECTION