

SECTION 07 10 00 – Damp proofing & Waterproofing

Document revision history: 08/2019 – Original Publication

Date	Section	Description of Change

PART 1 – GENERAL**1.1 Summary**

- a. 20-year manufacturer warranty required for all damp proofing and waterproofing; from date of Substantial Completion.
- b. 2-year installation warranty required for all damp proofing and waterproofing; from date of Substantial Completion.

1.2 Submittals

- a. Not applicable.

1.3 Qualifications

- a. Not applicable.

PART 2 – PRODUCTS**2.1 Materials**

- a. Not applicable.

PART 3 – EXECUTION**3.1 Installation**

- a. Damp proofing and/or Waterproofing at footing and foundation walls:
 - Extend on outside faces of footings.
 - Extend onto intersecting walls and footings, but do not extend onto surfaces expose to view at project completion.
- b. Install flashings and corner protection at all corners, changes in plane, construction joints, and cracks.
- c. Overlap and/or reinforce and seal material at joints and ends.
- d. Install appropriate terminations at all edges with counter-flashings over all exposed edges.
- e. Seal all penetrations through membrane, sheet, etc. watertight.

3.2 Interface with other products

- a. Not applicable.

3.3 Testing

- a. All concealed membranes require third party inspection prior to covering with another material.

3.4 Training

- a. Not applicable.

SECTION 07 20 00 – Thermal Protection

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Date	Section	Description of Change

PART 1 – GENERAL**1.1 Summary**

- a. Not applicable.

1.2 Submittals

- a. Not applicable.

1.3 Qualifications

- a. Not applicable.

PART 2 – PRODUCTS**2.1 Materials**

- a. Minimum of R-30 roof insulation.
- b. Target R-21 or greater. Minimum acceptable R-19

PART 3 – EXECUTION**3.1 Installation**

- a. No fiberglass batt insulation at removable ceilings.

3.2 Interface with other products

- a. Not applicable.

3.3 Testing

- a. Not applicable.

3.4 Training

- a. Not applicable.

SECTION 07 30 00 – Steep Slope Roofing

Document revision history: 08/2019 – Original Publication

Date	Section	Description of Change

PART 1 – GENERAL**1.1 Summary**

- a. CPFM maintains a survey database of all roofs on campus that shall be utilized in all design efforts.
- b. Ice blocking is required over building entries and perimeter walkways when cover/canopy structure slopes towards entries or walks below.

1.2 Submittals

- a. Materials that carry less than a 30-year warranty must be approved through UO Substitution Request.

1.3 Qualifications

- a. All materials to carry 30-year warranty, established from the date of Substantial Completion.
- b. 2-year minimum installation warranty required for all membrane roofing systems, established from the date of Substantial Completion.
- c. Warranties to require that water damage to any other building component and/or building contents due to product defect and/or incorrect installation be corrected at no cost to the UO.

PART 2 – PRODUCTS**2.1 Materials**

- a. Wood shingles for historic preservation use only. Requires approval through UO Substitution Request.
- b. Tile roofing typically not used on campus, requires approval through UO Substitution Request.

PART 3 – EXECUTION**3.1 Installation**

- a. Not applicable.

3.2 Interface with other products

- a. No downspouts from gutters shall run internal to a building without approval.
- b. Minimum 3 inch downspouts and rain leaders required from all roof drains and gutters.

3.3 Testing

- a. Not applicable.

3.4 Training

- a. Not applicable.

SECTION 07 40 00 – Roofing & Siding Panels

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Date	Section	Description of Change

PART 1 – GENERAL**1.1 Summary**

- a. Rain Screen System product warranty of 25 years. Warranty to include replacement of rain screen system along with all other associated components/damage at no cost to Owner.
- b. Installation warranty of 2 years. Warranty to include repair of rain screen system along with all other associated components/damage at no cost to Owner.

1.2 Submittals

- a. Rain Screen Systems require mock-up testing prior to installation.

1.3 Qualifications

- a. Rain Screen System Installer: Personnel installing the products shall provide evidence of factory training and certification. Certification of individuals is required, not just certification of installing contractor.

PART 2 – PRODUCTS**2.1 Materials**

- a. No vinyl siding
- b. No Dryvit systems
- c. Vertical panel systems require rubber gaskets and/or sealed fasteners within fastening methods and assembly.
- d. Vertical panel systems shall not compromise the R value of building insulation.
- e. Rain Screen System shall be previously tested and detailed by the systems supplier.

PART 3 – EXECUTION**3.1 Installation**

- a. Not applicable.

3.2 Interface with other products

- a. Not applicable.

3.3 Testing

- a. Rain Screen Systems require third party on-site inspection on the installed system.

3.4 Training

- a. Not applicable.

SECTION 07 50 00 – Membrane Roofing

Document revision history: 08/2019 – Original Publication

Date	Section	Description of Change

PART 1 – GENERAL

1.1 Summary

- a. CPFM maintains a survey database of all roofs on campus that shall be utilized in all design efforts.
- b. Replacement of existing roof membrane systems shall eliminate use of ballast style systems.

1.2 Submittals

- a. Hot-mopping is **not** generally allowed on campus. For specific circumstances, approval may be provided through submission of UO Substitution Request.
- b. Ballasted membrane systems are not generally allowed on campus. For specific circumstances, approval may be provided through submission of UO Substitution Request.
- c. Green roofing strategies must be approved through submission of UO Substitution Request.
- d. Materials that carry less than a 30-year warranty must be approved through UO Substitution Request.

1.3 Qualifications

- a. Not applicable.

PART 2 – PRODUCTS

2.1 Materials

- a. All materials to carry 30-year warranty, established from the date of Substantial Completion.
- b. 2-year minimum installation warranty required for all membrane roofing systems, established from the date of Substantial Completion.
- c. Warranties to require that water damage to any other building component and/or building contents due to product defect and/or incorrect installation be corrected at no cost to the UO.
- d. Acceptable Materials:
 - 3-ply built-up bituminous
 - Cold-process bituminous roofing
 - Reinforced PVC single-ply membrane
 - TPO single-ply membrane
 - No EPDM roofing.
- e. Reflective materials are to be used when possible; white vs. black.
- f. Green roofing strategies require prior approval, per above. If approved:
 - No soil may be in contact with roofing membranes.
 - Soil must be contained within moveable units to access the membrane and the deck.
 - The weight of one unit must be safely removable and/or moveable by 1 individual.
 - Contractor is required to perform removal and replacement of the green roof system in order to access and repair warranty items.

PART 3 – EXECUTION

3.1 Installation

- a. Mechanically attached and/or fully adhered systems are acceptable. Avoid use of ballasted membrane systems.

3.2 Interface with other products

- a. Provide walk pads from point of roof access to all items requiring routine maintenance or access.
- b. No downspouts from gutters shall run internal to a building without approval.
- c. Minimum 3-inch downspouts and rain leaders required from all roof drains and gutters.

3.3 Testing

- a. All concealed membranes require third party inspection prior to covering with another material.

3.4 Training

- a. Not applicable.

SECTION 07 60 00 – Flashing and Sheet Metal

Document revision history: 08/2019 – Original Publication

Date	Section	Description of Change

PART 1 – GENERAL**1.1 Summary**

- a. 5-year manufacturer and installation warranty required for all flashing; from date of Substantial Completion.
- b. Warranty required to replace system along with all other associated components/damage at no cost to Owner.
- c. Quality Requirements:
 - Design, fabricate, and install sheet metal work in accordance with Sheet Metal and Air Conditioning Contractor’s National Association, Inc. (SMACNA) Architectural Sheet Metal Manual.
 - Design, fabricate, and install flashings at edges of roof for 100mph wind uplift. Ensure that substrate specification and installation is in compliance.
 - Design, fabricate, and install with allowance for thermal movements from the maximum change in ambient and surface temperatures.
- d. Provide clips that resist rotation and avoid shear stress as a result of thermal movement.

1.2 Submittals

- a. Not applicable.

1.3 Qualifications

- a. Not applicable.

PART 2 – PRODUCTS**2.1 Materials**

- a. 2-piece flashing system required at a minimum.
- b. Kynar or electrostatic painted metal flashings only. No shop or field painted flashings.

PART 3 – EXECUTION**3.1 Installation**

- a. Not applicable.

3.2 Interface with other products

- a. Flashing is required at all window lintels and sills.
- b. Head flashing is required at all penetrations, openings, etc. through the exterior skin of the building.

3.3 Testing

- a. All concealed membranes require third-party inspection prior to covering with another material.

3.4 Training

- a. Not applicable.