

Revision Date: 10/16/2023

1. **Design & Performance Criteria:**

- a. Design roofing panels in compliance with code required wind loads.
- b. All roofing assemblies must comply with FM Global (FMG) requirements and be an approved assembly as listed in FMG's "Approval Guide"
- c. Review FMG data sheets and submit compliance with FM Global RoofNav to UVM project manager during design.
- d. Roofing systems shall allow for thermal movement resulting from ambient and surface temperature changes.
- e. Design consultant to specify fasteners that are compliant with engaged materials and meet manufacturer's requirements for warranty.
- f. Design Consultant shall avoid specifying incompatible materials in contact with each other.
- g. Snow guards shall be used on sloping roofs above entrances, exits, walkways, and lower roofs.
 - i. Snow guard installation areas shall consider ricochet areas and areas where snow drifts will accumulate on lower roofs that have the potential to drop secondary accumulation onto doors and walkways below.
- h. Design and locations of valleys shall consider where snow and water will fall below.
 - i. Avoid locating building entrances, exits, and walkways where roof valleys

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- a. FM Global Approvals Guide: <https://www.fmaprovals.com/approval-guide>
 - b. FM Global RoofNav: <https://www.fmaprovals.com/roofnav>
 - c. FM 4471 "Panel Roofs"
 - d. NFPA 285 Design roofing panels in compliance with code required wind loads.
 - e. SMACNA "Architectural Sheet Metal Manual"
 - f. NAAMM "Metal Finishes Manual for Architectural and Metal Products"
 - g. Design Consultant shall specify reference standards appropriate for the metal system used on the project.
3. **Submittals to be reviewed by University:**
- a. All equipment and product information
 - b. All product warranty information
 - c. Shop drawings showing panel sizes, lap joints, dimensioned seam locations, dimensioned fastener locations, edge conditions, side seam conditions, corners, anchorages, trim, closures, and accessories.
 - i. Included shop drawings of snow guards when included in scope of work.
 - d. Verification samples of fully finished metal panels and fasteners.
 - e. Samples of all warranties.
 - f. Maintenance Data
 - g. Product test reports
 - h. Qualification data for qualified installers.
4. **Products, Materials & Equipment:**
- a. Acceptable manufacturers include:
 - i. AEP Span:
 - ii. Atas International, Inc.,
 - iii. Centria,
 - iv. Metecno-Morin,
 - v. Peterson Aluminum Corporation
 - vi. Firestone/Copper Sales, Inc.
 - b. Roofing panels to be factory coated.
 - i. Basis of design is a 3 coat Fluoropolymer finish.
5. **Installation, Fabrication, and Construction:**

