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1. Design Criteria

- a. Commercial quality windows are required in all installations.
- b. Coordinate design and detailing of windows with the air and moisture management layers of the building envelope.
 - i. Window perimeter details are critical for the air and water penetration resistance of the building envelope. The shape of frame members can affect flashing and sealing details. Project detail drawings and specifications need to be coordinated with the intended window types, wall assembly, and construction sequencing to avoid issues during installation.
- c. Vinyl and Steel Windows are prohibited.
- d. Wood Windows are allowed in only special circumstances. Contact the UVM Project Manager for approval.
- a. Operable windows at UVM are generally limited to opening 4" to provide fall protection. Special hardware may be required to be installed by the window manufacturer to achieve this. Retrofitting new windows in the field is not allowed. Review project requirements with the UVM Project Manager to determine any opening limitations.
- b. Replacement windows in historic buildings will most likely be evaluated by the Vermont Division of Historic Preservation in conjunction with the UVM PM. Review the process and the materials requirements by DHP for the evaluation for each project with the UVM Project Manager.
- c. Sill flashing pans are required at windows. Preformed are preferred but shape are acceptable when constructed in a durable and weight manner. Field pans made of self-adhered membrane flashing are also acceptable.
- d. Window manufacturers who have field representatives available to observe the installation process are preferred to those who do not. Manufacturer's certification of proper installation is helpful during construction to establish proper construction.
- e. Window Testing:
 - i. Standard testing requirements may include a quantity of windows that are required to be tested. On smaller projects this quantity may not test enough windows to establish a passing record. For example, a typical requirement that 5% of windows be tested on a 10 window project is only half a window. Verify the number of windows that will be tested according to specified testing requirements are a meaningful number of windows to establish

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2. Field test for air leakage in accordance with ASTM E783.
3. Test for water leakage at sills with simple hose tests filling up exterior sill surfaces with water for a set period of time and observing for