	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01 - Yale Design Standard Division: 08 00 00 Openings	Section: <b>08 60 00</b> Requirements for Wood Windows
		Date: December 2023
		Author: Office of Facilities

## **PART 1 - INTRODUCTION**

### 1.1 PURPOSE

This section contains general design criteria for wood windows.


## **PART 2 - GENERAL DESIGN REQUIREMENTS**

### 2.1 SYSTEM DESIGN AND PERFORMANCE REQUIREMENTS

- A. Wood windows may be used only in historically-designated buildings, or as required by the project.
- B. Wood window units must have a warranted factory finish and require minimal exterior maintenance. Aluminum cladding or high-performance paint finishes are acceptable. Windows must comply with the general requirements of ANSI A200-1 and the Window and Door Manufacturers Association publication, —Industry Standards for Wood Window Units.¶
- C. Provide operable windows in buildings without air conditioning. Yale University will review operable windows in buildings with air conditioning on case-by-case basis.
- D. Windows must facilitate window washing. For existing buildings, incorporate an operating or removable sash above the second story.
- E. Window and curtain wall systems must meet the performance requirements of NWWMA I.S. 2, Class A.
- F. Thermal transfer must have a maximum U-value of 0.66.
- G. The condensation resistance factor must be a minimum of 47.
- H. Plastic units are unacceptable.
- I. Vinyl clad finished are allowed in specific cases if approved by Yale University.

### 2.2 SUBMITTALS

The contractor must provide shop drawings, product data, and samples of each window unit specified.

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2.3 MANUFACTURERS

Subject to compliance with the design requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following.

- Anderson Windows
- Marvin Windows
- Pella/Rolscreen Company
- Eagle Windows

2.4 HARDWARE

Provide heavy-duty hardware made of non-rusting material or steel protected by a rust resistant finish.

2.5 GLAZING

To ensure a single source of responsibility for performance, specify the glazing of windows and caulking of openings as part of the window installation.

2.6 TESTING

The window manufacturer must have had their product tested by an independent laboratory. The same testing must be performed on 2% of window openings. The contractor is responsible for additional independent testing for each unit that fails the initial test.

2.7 WARRANTY

The contractor, manufacturer, or installer must sign and furnish a 10-year, written warranty for window systems from the date of substantial completion. The warranty must state that the contractor, manufacturer, or installer will correct all deficiencies during the warranty period. The warranty must cover—at no cost to Yale University—the removal and replacement of window systems, as well as labor for leaks, glass defects, hardware malfunctions, deterioration of finishes, and other deficiencies caused by defective materials and faulty workmanship.

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