

I. Overview

This document outlines general recommended instructions for combining Fleetwood's window and door products with the Thermal Jamb Mullion (1.88" x 5.75") in the field. The term mulling is used for combining windows and doors side-by-side with a vertical member.

II. Reasons for Mulling:

- Increased structural performance
- Allows the combining of several frames to accommodate large openings
- Allows the combining of different product types (Example: Sliding Door with Fixed Window)

III. Mulling Design Considerations:

When mulling products, structural performance of the mulled connection must be considered. The required strength at the mulled connection is dependent upon the design rating and the net frame sizes. For configurations that exceed the strength of Fleetwood's standard mulled connections, it is the customer's responsibility to provide adequate structural members to meet design requirements.

Fleetwood's mullions are designed to handle more wind load than a side load. When mulling products such as a swing door next to a fixed window you must consider the side load. The hinged side of the swing door will create a side load on the mullion. This same situation occurs when combining a sliding door with a fixed window. The lock side of the door (if pulled while locked into jamb) will also create a side load.

Note: Structural Members used with thermally broken products may impact energy performance (such as frost, heat, condensation, etc.).

IV. Frame Depths and Mullion Deductions:

The Thermal Jamb Mullion width is 1.875", which is to be considered when determining Net Frame Dimensions of mulled products.

V. Frame Types and Sill Pan:

A block frame is required **at the sill** and at locations where products **are being joined**. Mullions provided by Fleetwood will not work with nail-fin frames. A full-length sill pan is required with all mulled products. Fleetwood can supply custom sill pans upon request. Sizes larger than 14' will be sent in sections and the installer is responsible for sealing the seams.

VI. Installation:

1. Place the Thermal Jamb Mullion between frames (examples below, Figure 1-3).
2. On GTF products it will be necessary to remove the glass stops, and depending on glass size, possibly the glass to install fasteners.
3. Pre-drill through frame and into Thermal Jamb Mullion. Install fasteners (not provided by Fleetwood) through the frame and into the Thermal Jamb Mullion.

Note: Structural Engineer to determine anchor size, quantity, and spacing for design load requirements.

4. Seal all fastener heads with compatible sealant.
5. Reinstall glass (as necessary) and glass stops.
6. Apply sealant full length of exterior vertical seams leaving a ½” gap at the bottom for weepage.
7. To ensure water does not run into the mulled units insert backer rod and cover with compatible sealant at top of mullion.
8. Place flashing over top of units for additional moisture protection. Flashing not provided by Fleetwood.

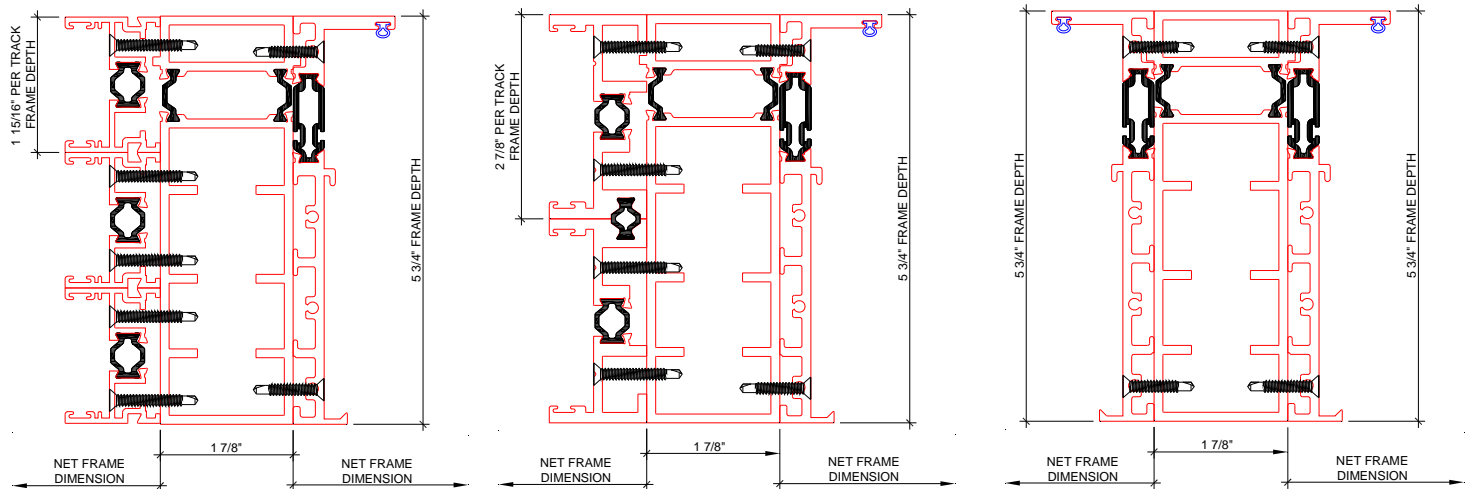


Figure 1:
Series 3070-T Mullied to Series 4800-T

Figure 2:
Series 4070-T Mullied to Series 4800-T

Figure 3:
Series 4800-T Mullied to Series 4800-T