



## WDMA TECHNICAL INTERPRETATION 97-11

Approved: 10/97

**DATE OF INQUIRY:** July, 1987

**PERTINENT SPECIFICATION:** ANSI/AAMA/NWWDA 101/I.S.2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

**SECTION(S) IN QUESTION:** 1.2.2, 1.2.2.1, 1.2.2.2, 1.2.3, 1.2.4 and 3.2.1

**INTERPRETATION REQUESTED:** Dual Windows are defined in Section 1.2.2 of ANSI/AAMA/NWWDA 101/I.S.2-97 as follows:

"A dual window is a window composed of one of the configurations listed in this Section and offered by the manufacturer as a complete factory pre-assembled or integral unit. Operation of the primary and secondary sash shall be completely independent of each other. Dual windows are marketed and tested as integral units.

Only units which are tested as an integral product may be certified as dual windows (DW). The primary window may be tested under the appropriate section of this document as a stand alone unit. The secondary window may be tested separately under AAMA 1002.10. If the primary and secondary units are tested independently for purpose of certification, they may be labeled and marketed independently."

Dual window configurations include:

1. Interior Primary/Exterior Secondary
2. Exterior Primary/Interior Secondary
3. Interior Primary/Exterior Primary

"Primary Window" and "Secondary Window" are defined in ANSI/AAMA/NWWDA 101/I.S.2-97 as follows:

### 1.2.2.1 PRIMARY WINDOW

That window in a dual window unit so designated by the manufacturer, capable of protecting the building's interior from climatic elements as opposed to a secondary window used mainly for energy conservation.

### 1.2.2.2 SECONDARY WINDOW

That window in a dual window unit so designated by the manufacturer, used on the exterior of, or interior of, and in tandem with a primary window for the purpose of energy conservation. Secondary windows are not intended to be used by themselves as primary windows.

### 1.2.3 WINTER MODE

The winter mode is defined as when both the primary and secondary windows, or both primary windows, are closed and the primary window is locked and the insect screen (when offered or specified by the manufacturer) is in the stored position.

### 1.2.4 SUMMER MODE

The summer mode is defined as when the primary window is closed and locked, the secondary window or outer primary window is fully opened and the insect screen (when offered or specified by the manufacturer) is in the functional position.

Furthermore, Section 3.2.1 of ANSI/AAMA/NWDA 101/I.S.2-97 does not allow dual windows to be shipped knocked down:

With the exception of dual windows, windows or doors shall be shipped either completely assembled with or without glass, or knocked down (KD). A KD window or door is complete in its entirety, with exception of glass, glazing materials and/or screen, shipped in a disassembled condition and later assembled according to the instructions of the manufacturer, utilizing all components supplied or specified by the manufacturer. Dual windows shall be shipped completely assembled with or without glass, and not knocked down (KD). Doors may be shipped with the frame in a (KD) configuration.

Based on the above:

1. What is the intent of Section 3.2.1?
2. How should dual windows be labeled recognizing that they may not always be sold with secondary sash?

### **INTERPRETATION MADE:**

1. Dual Windows are designed and fabricated having frames capable of accommodating both the primary and secondary window sash or panels. The “knocked-down” requirement of Section 3.2.1 applies to the frame whereby both its primary and secondary portions must be a factory assembled unit. Primary windows to which secondary “insulating storm units” are field applied are not within the scope of “dual windows” as intended in ANSI/AAMA/NWDA 101/I.S.2-97. The intent of Section 3.2.1 is not to prohibit a dual window frame from being shipped “knocked-down” and the corners assembled at a location other than the manufacturer’s plant.
2. A manufacturer who produces a dual window may furnish the window both with or without the secondary sash. The secondary sash may be furnished when the window is initially shipped or at a later date. The window may be furnished without secondary sash initially and without any intent of ever furnishing them. Manufacturers must have the product tested for compliance to the appropriate specification in ANSI/AAMA/NWDA 101/I.S.2-97 as follows:
  - A. Test the window as a dual window in accordance to ANSI/AAMA/NWDA 101/I.S.2-97.
  - B. Test the window with only the primary sash or panels for air infiltration and water resistance. Performing the uniform load structural test is not required since dual windows are required to have this test preformed in both the summer and winter modes.

The certification label shall indicate both specifications, e.g., DH-C20 and DH-DW-C20.

If a thermal tab is to be used for the product tested both as a non-dual and dual window, the appropriate thermal tab shall be applied, indicating the thermal classes for the DH-C20 and DH-CW-C20.

**REVIEWED/ APPROVED BY:**

<b>COMMITTEE</b>	<b>COMMENTS / ACTION</b>	<b>STATUS</b>
<b>JDMG</b>		
<b>WDMA</b>	Reviewed by NWWDA Standards Maintenance Committee	Approved – 10/97
<b>AAMA</b>	Approved by AAMA Technical Policy Planning Committee as AAMA Technical Interpretation #45.	Approved – 10/88 Ed. Revised - 2/94, 1/98