

FMA/AAMA/WDMA 500-16

Standard Practice for the Installation of Mounting Flange Windows into Walls Utilizing Foam Plastic Insulating Sheathing (FPIS) with a Separate Water- Resistive Barrier (WTB)



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FOREWORD

This standard practice encompasses procedures for the installation of windows into walls utilizing foam plastic insulating sheathing (FPIS); and addresses installations for residential and light commercial buildings of not more than three stories above grade plane in height.

This standard practice is to address: attachment and continuous support of the window and water management principles for windows installed with FPIS.

1.0 SCOPE

1.1 This standard practice addresses residential and light commercial buildings in new construction of not more than three stories above grade plane in height, utilizing a water-resistive barrier (WRB) and FPIS. It is expected that all referenced components shall meet code requirements in force at the time of installation.

1.2 The provisions in this standard practice are not intended to prevent use of alternative constructions following rational methods of evaluation in accordance with accepted engineering practice, test methods, and building code requirements.

1.3 To simulate installation conditions, and demonstrate the effectiveness of the standard practice, installation methods that are consistent with this document that employ sill drainage have been water tested up to a test pressure of 360 Pascals (7.50 psf) using the ASTM E547 water test. The installation methods described in this document that employ a continuous seal around the entire exterior perimeter of the window have not been tested. This does not advocate field or lab testing to those levels as a requirement for this standard practice.

1.4 This practice applies to windows which employ a mounting flange when installed in wood frame construction with exterior insulating sheathing. When mounting flanges are used, they may be attached to the exterior window perimeter frame, with or without a mounting flange on the sill, and are designed as an installation appendage. Non-flanged and brick mold windows are beyond the scope of this practice. See manufacturer's instructions for those applications.

1.5 This practice addresses scenarios in which the FPIS may be installed over or under a separate water resistive barrier (WRB) layer; and the resulting water management considerations are discussed. The FPIS referenced in this standard practice is being utilized for its thermal value. The use of FPIS as an air barrier, drainage plane, structural window support or structural sheathing is beyond the scope of this practice.

***CAUTION:** This standard practice's tested method is limited to a WRB or drainage plane that consists of a correctly shingled mechanical lap of a water-resistive material over any joints or seams in the structural sheathing or FPIS.*

1.6 This standard practice covers the installation process for windows from pre- to post-installation. It does not include factory or field fabrication techniques that would be required to join individual windows to each other, either horizontally or vertically.

1.7 This standard practice provides recommended requirements for window installation. If the window manufacturer provides installation instructions, the manufacturer's instructions shall take precedence.

1.8 This standard practice addresses water management concerns at the rigid insulating sheathing and window interface. Issues regarding the adequacy of anchorage and structural support for windows are beyond the scope of this document. Consult window manufacturer's installation instructions or an approved design for direction on anchorage and structural support.

1.9 This standard practice allows for the FPIS to be installed before or after the window installation. The FPIS and WRB are required to be properly installed according to the FPIS and WRB manufacturer instructions.

1.10 This standard practice does not address safety concerns, either from the installation process or those that may be present at the building site. It shall be the responsibility of the user of this standard practice to ensure that all appropriate health and safety practices have been implemented.