



Fenestration Canada Technical Services Committee

Recommendation on the Use of Engineering Calculations to Determine Design Pressure Ratings of Fenestration Products under NAFS-08¹

September 2014

The NAFS standard requires the air-water-structural performance of fenestration products to be determined by physical testing. It also provides guidance, by reference to other standards, for the limited application of engineering calculations and principles to determine the design pressure component of fenestration Performance Grades. All such standards referenced in NAFS-08 have been superseded by more recent versions, and one has been replaced by a more comprehensive standard.

It is the opinion of this committee that the most recent version of the standards referenced in NAFS-11 for this purpose define the state of the art with respect to the methods used to determine design pressure ratings for fenestration Performance Grades. Engineers engaged to determine NAFS-08 Performance Grades for fenestration products are advised to consider this in their analysis.

These references are summarized in the table below for both the 2008 and 2011 versions of NAFS.

NAFS-08 ¹		Current Status	NAFS-11 ²
AAMA 450-06, Voluntary Performance Rating Method for Mullled Fenestration Assemblies	Superseded by AAMA 450-10		AAMA 450-10 , Voluntary Performance Rating Method for Mullled Fenestration Assemblies
WDMA I.S.11-02, Voluntary Analytical Method for Design Pressure Rating of Fenestration Products	Superseded by WDMA I.S.11-13		WDMA I.S.11-09, Voluntary Analytical Method for Design Pressure Rating of Fenestration Products
AAMA TI 33 (revised 1998), Method for Extrapolating Uniform Load Structural Test Results to Fixed Windows of a Size Other Than That of the Test Specimen	Superseded by AAMA 2502-07		AAMA 2502-07 , Comparative Analysis Procedure for Window and Door Products

¹ In this document the acronym NAFS-08 refers to AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS—North American Fenestration Standard/Specification for windows, doors and skylights*.

² In this document the acronym NAFS-11 refers to AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS 2011—North American Fenestration Standard/Specification for windows, doors and skylights*.