

FGIA & WDMA Joint Technical Bulletin
Update to Bulletin No. 14-01, Equivalency of Editions of NAFS

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Pertinent Joint AAMA/WDMA/CSA Specification(s):

AAMA/ WDMA/CSA 101/I.S.2/A440-08, NAFS, North American Fenestration Standard / Specification for windows, doors, and skylights.

AAMA/ WDMA/CSA 101/I.S.2/A440-11, NAFS, North American Fenestration Standard / Specification for windows, doors, and skylights

AAMA/ WDMA/CSA 101/I.S.2/A440-17, NAFS, North American Fenestration Standard / Specification for windows, doors, and skylights

In 2014, AAMA, WDMA and CSA issued an equivalency memo outlining the comparison of the testing and specification differences between the 2005, 2008 and 2011 editions of the North American Fenestration Standard/Specification for window, doors and skylights. This is an addendum to the previous Bulletin (14-01) and builds upon the previous declaration of equivalency between various editions of the NAFS Document. FGIA (formerly AAMA) and WDMA have conducted a side-by-side comparison of the testing and specification differences between the 2008, 2011 and the 2017 editions of the NAFS document.

Based on this comparison, FGIA and WDMA have determined that (in all but a few instances enumerated below) the requirements of NAFS-17 are either identical to, or editorial enhancements to, the requirements of NAFS-08 and NAFS-11, or provide revised language that does not adversely affect the performance or durability of NAFS-08 or NAFS-11 compliant products.

FGIA and WDMA recommend that except for the products specifically identified below, any products which are deemed compliant with NAFS-17 through certification by an ANSI-accredited certification agency or by product approval may also be considered compliant to NAFS-08 and/or NAFS-11, subject to approvals by an ANSI-accredited certification agency or by product approval. Further, the FGIA and WDMA agree that except for the products specifically identified below, any products which are deemed compliant with NAFS-17 through certification by an ANSI-accredited certification agency or by product approval may be considered as having met NAFS-08 and/or NAFS-11 without the need to list these older editions on the certification or product approval label, subject to approvals by an ANSI-accredited certification agency or by product approval. Likewise, any products that are deemed compliant to NAFS-

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08 and/or NAFS-11 by an ANSI-accredited certification agency may also be considered compliant to NAFS-17 except as noted below.

The following is the list of five (5) product categories to which this general equivalency does not apply:

1. Folding Door Systems (FLD) and Top-Turn Reversible Windows (TTR) rated under NAFS-17 cannot claim compliance to NAFS-08 or NAFS-11, unless identified as a Specialty Product.
2. US/Canadian Air infiltration and exfiltration rates have changed for gateway size tested fenestrations in the CW & AW performance classes. In certain cases, products rated under NAFS-17 cannot claim compliance with previous editions, unless specific testing of the products shows conformance with the air infiltration/exfiltration requirements of the previous editions.
3. Operating forces have changed. In certain cases, products rated under NAFS-17 cannot claim compliance with previous editions, unless specific testing of the products shows conformance with the operating force requirements of the previous editions.
4. Dual action side hinged doors and exterior folding doors applying the exclusion of locking/latching hardware from water testing when rated under NAFS-17 cannot claim compliance to NAFS-08 or NAFS-11.
5. Products rated under NAFS-17 that also claim compliance to NAFS-08 and/or NAFS-11 are permitted to use ASTM E1300-16 or later editions for glass strength and selection.

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Comparison of Significant Changes in the Criteria between the 2008, 2011 and 2017 Editions of the NAFS Standard			
Category/ Topic	AAMA/WDMA/CSA 101/I.S.2/A440-08 (Windows, Doors & Skylights) [CSA format]	AAMA/WDMA/CSA 101/I.S.2/A440-11 (Windows, Doors & Skylights) [CSA format]	AAMA/WDMA/CSA 101/I.S.2/A440-17 (Windows, Doors & Skylights) [CSA format]
General and window topics			
Format	Unchanged	Organized by product type, Performance Class, materials and components	Added Clause Labels and direct link to commentaries
Performance Grade Tables	Unchanged	Unchanged	Gateway and Optional performance grade tables combined including combination of US and Canadian water resistance test pressure in same table with note for US cap value
Product Type Designation	Unchanged	Added POW, SSP (-CSD, -JSD, - SGE, -SGI, -FWE, -FWI, -HWE, - HWI, -VWE, -VWI).	Added FLD, LWFLD, TTR and TASSP also X suffix to SHD's, DASHD's and FLD's
US operating force	CW: Same as Class C Class R Hung increased from 30 to 35 lb. Class LC Hung increased from 35 to 40 lb.	Unchanged	Operating force for US and Canada have been combined and include initiating force criteria. Force to maintain motion unchanged.
Canadian operating force	Optional, but now based on "Normal Use" and "Cleaning & Maintenance" categories	Unchanged	
US air leakage	CW: Same as Class C	Unchanged	Fully harmonized for CW and AW including air exfiltration requirements, R and LC remain unchanged.
Canadian air leakage	Optional. CW: Same as Class C	Unchanged	
Glass Strength Standard – basis of glass selection	ASTM E 1300-04 - use weakest glass for testing	ASTM E 1300-09a- use weakest glass for testing	ASTM E 1300-16- use weakest glass for testing
Materials referenced	Unchanged	Unchanged	Removed wood fiber and ABS Added lead testing and general category designated other
Mullion definitions and illustrations	Unchanged	New ratings and designations	Added combination mullions and reinforcing mullions of combination assemblies rated per option 2 AAMA 450

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Category/ Topic	AAMA/WDMA/CSA 101/I.S.2/A440-08 (Windows, Doors & Skylights) [CSA format]	AAMA/WDMA/CSA 101/I.S.2/A440-11 (Windows, Doors & Skylights) [CSA format]	AAMA/WDMA/CSA 101/I.S.2/A440-17 (Windows, Doors & Skylights) [CSA format]
Topics specific to doors			
Side-hinged exterior door types	Unchanged	Unchanged	Added FLD
US air leakage for SHD	Same as for windows	Same as for windows	Same as windows with the exception of requirements for CW and AW which are not harmonized for SHD and FLD
Canadian air leakage for SHD	Same as for windows	Same as for windows	
Limited water rating	Unchanged	Unchanged	Added DASHD and FLD
Hardware water testing	Unchanged	Unchanged ^a	Added exclusion for water penetration through the locking/latching hardware for SHD ² , also applicable to DASHD and FLD
Topics specific to skylights, etc.			
Primary designator example	Class CW-PG30: Size tested 1200 × 1200 mm (48 × 48 in)-SKG	SKG-PG30: Size tested 1200 × 1200 mm (48 × 48 in)	Unchanged

Table Footnote:

a. An update was approved in 2017, which allows the optional exclusion for water from penetrating through the locking/latching hardware for SHD for Canadian applications only retroactively applied to the NAFS-2011 and NAFS 2008.

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