Proposed Revisions to ANSI/AMD 100-2013
May 22, 2015

Summary of Revisions

1. General – Throughout the standard, all references to "Association of Millwork Distributors" and "AMD" have been changed to "World Millwork Alliance" and "WMA." These changes are clerical in nature.
2. Alpha Numeric Reference – modified to reflect new acronym due to name change.
3. Title of Standard – clarifying language added to title of the standard
4. Forward – revised to provide an introduction to the purpose of the standard.
5. Section 4 – Referenced Standards and Publications
    a. Listing revised to reflect most current editions of the standards listed.
    b. ANSI/BHMA A156.5 has been deleted. Since AMD 100 was first published BHMA has changed A156.5. This document number still exists, but its content has changed. The content has been rolled into ANSI/BHMA A156.12 and .13 (which is already referenced in Section 4).
    c. ANSI/BHMA A156.37, A156.39, and A156.40 have been added. BHMA has published these three new lock standards since the AMD 100 was first published: A156.37 for multipoint locks, A156.39 for residential locks, and A156.40 for residential deadbolts. These new standards have been added so as not to restrict what can be used for qualifying reference standards.
6. Section 6 – Units of Measurement – revised to include metric units of measurements (SI-International System).
7. Section 8.1 - Approximate SI conversion values added in parentheses where an IP value is shown.
8. Table 8.1 – Configuration Qualification – Removed references to XXXX and O/XXXX configurations.
9. Section 8.7 - Approximate SI conversion values added in parentheses where an IP value is shown.
10. Sections 9.2 and 9.3 - Approximate SI conversion values added in parentheses where an IP value is shown.
11. Figure 9.1 - Approximate SI conversion values added in parentheses where an IP value is shown.
12. Section 16.1.2 – Appropriate BHMA standard references added/removed.

Standard Method of Determining

Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution

ANSI/~~AMD~~ WMA 100-201~~3~~X

Published by:

~~Association of Millwork Distributors~~World Millwork Alliance
10047 Robert Trent Jones Parkway
New Port Richey, Florida 34655

FOREWORD

~~(This Foreword is not part of American National Standard ANSI/AMD 100-2013)~~
ANSI/WMA 100 is a test standard for determining structural performance ratings of residential Side-Hinged Exterior Door Systems (SHEDS) which includes procedures for component substitution. The testing required follows ASTM E330, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*.

The standard was developed by WMA to provide door pre-hangers and distributors a means by which to test and rate the structural performance of a SHEDS, and substitute or qualify components in that rated SHEDS.

~~The material contained in this document~~The ANSI/WMA 100- has been developed under the auspices of the Industry Standards and Certification Committee (ISCC) of the ~~Association of Millwork Distributors~~World Millwork Alliance (~~AMD~~WMA). ~~Suggestions for improvement~~Comments or questions regarding the standard are welcome and should be ~~sent~~ addressed to:

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[Sections 1 through 3 – No changes]

4. REFERENCED STANDARDS AND PUBLICATIONS

ASTM E 330-2014 — *Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*

ASTM E1300 -2012-– *Standard Practice for Determining Load Resistance of Glass in Buildings*

16 CFR 1201- 2002 – *Safety Standard for Architectural Glazing Materials*

AWC-NDS-2015 – *National Design Specification for Wood Construction*

ANSI/BHMA A156.1-~~2006~~ 2013 - *Butts and Hinges*

ANSI/BHMA A156.2-~~2003~~ 2011 - *Bored and Preassembled Locks and Latches*

~~ANSI/BHMA A156.5-2010 - *Auxiliary Locks and Associated Products*~~

ANSI/BHMA A156.12-~~2005~~ 2013 - *Interconnected Locks ~~and Latches~~*

ANSI/BHMA A156.13-~~2005~~ 2012 - *Mortise Locks and Latches*

ANSI/BHMA A156.37-2014 – *Multipoint Locks*

ANSI/BHMA A156.39-2015 – *Residential Locksets and Latches*

ANSI/BHMA A156.40-2015 – *Residential Deadbolts*

[Section 5 – No Change]

6. GENERAL

6.1 Units of Measurement

6.1.1 This standard allows for values and measurements in both the Imperial System (IP – inch/pound) and International System of Units (SI or metric system).

6.1.2 The values given in IP units are the primary units used. Approximate SI units are provided in parentheses. Users of this standard shall test to IP values or SI conversions of the IP values.

6.1.3 ~~Primary units used in this standard are imperial (inch-pound).~~ Design pressure (DP) ratings shall be reported as whole numbers in one pound increments and shall be permitted to be reported as one design pressure representing both positive and negative pressures, or as separate positive and negative design pressure ratings. When a single rating is required, the rating shall be given as the lesser value of the positive and negative results, if they differ.

[Section 7 – No Changes]

8. RATED DOOR SYSTEMS

8.1 Door systems shall consist of door slab(s) of the largest width, height, and system configuration for which a rating to this standard is sought. (See Table 8.1 for configuration qualification rules.)

8.1.1 Minimum door slab size to obtain a rating for a single door system shall be 2’6’’ (762 mm) wide x 6’ 8” (2,032 mm) high.

8.1.2 Minimum width for multiple slab door system testing shall be measured in multiples of 2’6” (762 mm) wide.

8.1.3 Minimum test size for sidelights shall be 1’0” (304.8 mm) wide x 6’8” (2,032 mm) high.

[Sections 8.2 through 8.3 – No Changes]

Table 8.1 — Configuration Qualification

X	Testing a single operable door shall only qualify that configuration
XO – Jamb-hinged	Testing an operable door (jamb-hinged) with a single fixed door or sidelight shall qualify OX or XO jamb and/or mull-hinged, X, and O configuration
XO – Mull-hinged	Testing an operable door (mull-hinged) with a single fixed door or sidelight shall qualify OX or XO mull-hinged only, X, and O configurations
XX	Testing a double operable door system shall qualify XX and X configurations
OXO	Testing a single operable door with fixed flanking doors or sidelights shall qualify OXO, XO or OX jamb and/or mull-hinged, X or O configurations
OXXO	Testing a double operable door system with fixed flanking doors or sidelights shall qualify OXXO, XXO, OXX, OXO, XX, OX or XO mull-hinged and/or jamb-hinged, X, or O configurations
OXXX	Testing a triple operable door system with fixed flanking door or sidelight shall qualify ~~XXXX~~, OXXO, XXO, OXX, OXO, XX, OX or XO jamb and/or mull-hinged, X, or O configurations
O/OXXO	Testing a double operable door system with fixed flanking doors or sidelights with a transom shall qualify O/OXXO, O/XXO, O/OXX, O/OXO, O/XX, O/OX or O/XO mull-hinged only, O/X, OR O/O configurations
O/OXXX	Testing a triple operable door system with fixed flanking door or sidelights lights with a transom shall qualify ~~O/XXXX~~, O/OXXO, O/XXO, O/OXX, O/OXO, O/XX, O/OX or O/XO jamb and/or mull-hinged, O/X, or O/O configurations

[Sections 8.4 through 8.6 – No changes]

8.7 Rating

Door systems shall be rated for Design Pressure in one pound increments for both positive and negative pressures with a minimum 15 psf (720 Pa) design load.

[Sections 8.8 through 9.1 – No Changes]

9.3 A load shall be applied through a 2.5 inch (63.5 mm) diameter by 0.25 inch (6.35 mm) thick steel pad to a point centered 3 inches (76.2 mm) from the top edge and 3 inches (76.2 mm) from the latch stile face at the unclamped corner. Slab deflection under load shall be measured to the nearest 0.01 (0.25 mm) inches at the same point as the applied load.

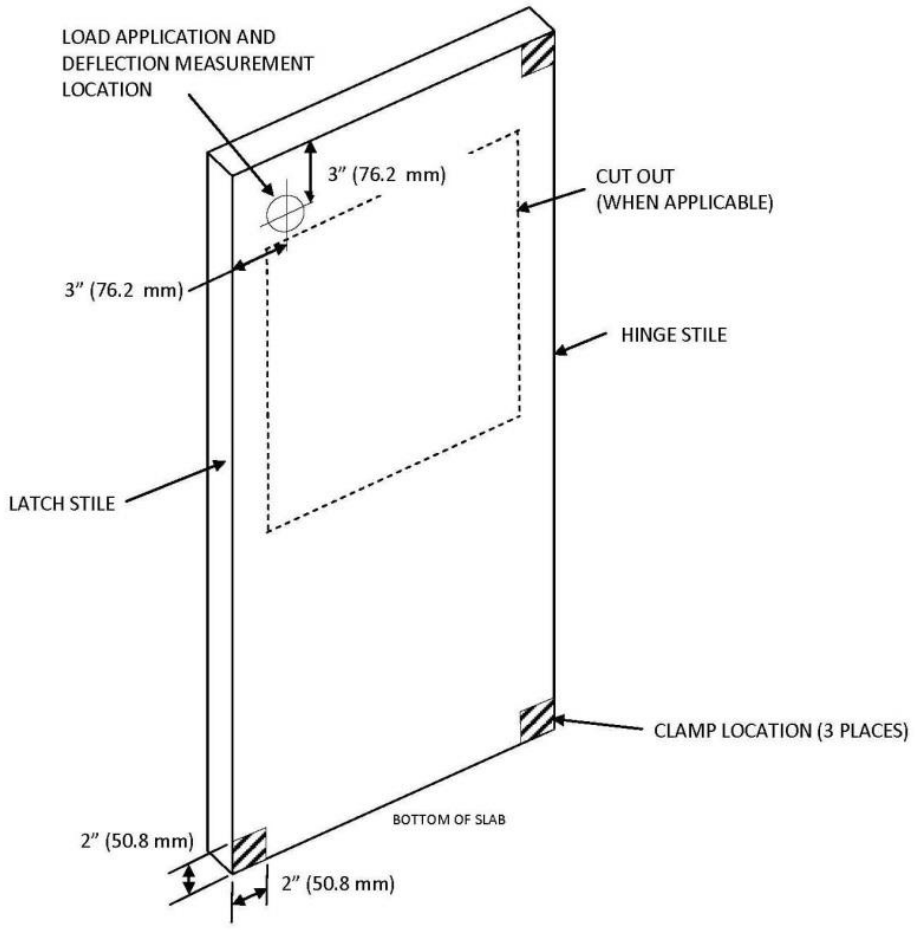
A. For opaque doors, the applied load shall be 100 lb (444.8 N).

B. For integral glazed doors, the applied load shall be 100 lb (444.8 N).

C. For doors open for glazing, the applied load shall be 75 lb (33.6 N).

[Section 9.4 – No Change]

Figure 9.1 – Slab Stiffness Test



[Sections 10 through 16.1.1 – No Changes]

16.1.2 Locksets shall be permitted to be substituted for locksets of the same type without testing if they meet the same grade as the existing rated lockset, as defined by one or more of the following standards: ANSI/BHMA A156.2, ~~A156.5,~~ A156.12, ~~and~~ A156.13, A156.37, A156.39, and A156.40.

[Section 16.1.3 to the End of Document – No Changes]