

ANSI/BHMA A156.22 – 2005



**AMERICAN NATIONAL STANDARD
FOR
DOOR GASKETING and EDGE SEAL SYSTEMS**



**SPONSOR
BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.**

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AMERICAN NATIONAL STANDARDS INSTITUTE

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AMERICAN NATIONAL STANDARD**

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FOREWORD (This Foreword is not a part of ANSI/BHMA A156.22)

The general classification of builders hardware includes a wide variety of items which are divided into several categories. To recognize this diversity, a sectional classification system has been established. Door Gasketing Systems is one such sub section and this Standard is a result of the collective efforts of members of the Builders Hardware Manufacturers Association, Inc. who manufacture this product. The total Product Standards effort is, therefore, a collection of sections, each covering a specific category of items.

Performance tests have been established to ensure safety and stability to which the public is entitled. There are no restrictions on design.

This Standard is not intended to obstruct but rather to encourage the development of improved products, methods and materials. The BHMA recognizes that errors will be found, items will become obsolete, and new products, methods and materials will be developed. With this in mind, the Association plans to update, correct and revise these Standards on a regular basis. It shall also be the responsibility of manufacturers to request such appropriate revisions.

The BHMA numbers which indicate functions of gasketing do not identify size or design and are not intended to be used without necessary supplementary information. Individual manufacturer's catalogs are to be consulted.

TABLE OF CONTENTS

1. SCOPE.....	5
2. DEFINITIONS.....	5
3. GENERAL.....	6
4. TEST EQUIPMENT.....	6
5. TEST PROCEDURES FOR ALL GASKETS.....	9
6. TEST PROCEDURES FOR NON INTUMESCENT GASKETS ONLY.....	10
7. TESTS FOR INTUMESCENT MATERIALS ONLY.....	11
8. TYPE NUMBERS AND APLICATIONS.....	13
9. EXPLANATION OF THE NUMBERING SYSTEM.....	16
APPENDIX A USERS GUIDE.....	18

1. SCOPE

1.1 This Standard establishes requirements for the performance and installation of gasketing systems including intumescent materials applied to, or mortised to doors, frames or both. Included are performance tests intended to provide installation guidelines, resistance to smoke and air infiltration, and measure the life and durability of gasketing materials.

1.2 Requirements apply to factory or field installed materials.

1.3 Tests described in this Standard are performed under laboratory conditions. In actual usage, results vary because of installation, maintenance and environmental conditions.

2. DEFINITIONS

2.1 For the purpose of this Standard, the following words and terms shall have the meaning indicated in this section. Words not defined shall be considered adequately defined in Webster's Unabridged Dictionary.

2.2 **Applied** The gasketing is installed onto a door or frame or both in the field.

2.3 **Astragal(s)** One or more elements applied to the meeting stile(s) to cover or seal the gap between a pair of doors.

2.4 **Closer** A spring powered device having a controlling means used to close a door.

2.5 **Combination Intumescent Gasket** A product comprised of both intumescent material and other gasketing materials.

2.6 **Edge Seal Systems** Use Category G listed products that may be required to provide protection to the perimeter and meeting edge of doors and door frames to prevent the flow of hot gasses around the assembly in the event of fire.

2.7 **Gasketing** Material applied to a door or frame for the purpose of reducing or sealing the clearances around a door, to reduce the passage of air, smoke, sound, light, or water.

2.8 **Integral** The gasketing is incorporated in a door or frame or both during the manufacturing process.

2.9 **Intumescent** A range of materials that expand in volume when exposed to heat or flame.

2.10 **Kerf** A cut or channel produced by a tool.

2.11 **Latch Bolt** A lock component having a beveled end which projects from the lock front in an extended position but is forced back into the lock case by end pressure or drawn back by action of the lock mechanism. When the door is closed, the latch bolt projects into a hole provided in the strike, and holds the door in a closed position.

2.12 **Retainer** Part of some gasketing types providing a means of holding the gasketing material. Is allowed to have flanges to facilitate mounting or serve as a housing for other components. May also be called a housing.

2.13 **Strike** A plate fastened to the door frame into which the bolts project.