

ANSI/BHMA A156.10 - 2011 Power Operated Pedestrian Doors

1. GENERAL

1.1 Scope Requirements in this Standard apply to power operated doors for pedestrian use which open automatically when approached by pedestrians and some small vehicular traffic or by a knowing act. Included are provisions to reduce the chance of user injury or entrapment. Power operated doors for industrial or trained traffic are not covered in this Standard. 1.1.1 Where this Standard contains specifications relating to minimum or maximum dimensions of various components of power operated doors for pedestrian use and some small vehicular traffic, such dimensions are included to provide user protection for what are, in the industry, standard application conditions. This Standard does not apply to custom installations.

1.2 This Standard does not apply to power assist and low energy power operated doors. Refer to ANSI/BHMA A156.19 for Power Assist and Low Energy Power Operated Doors.

1.3 Required dimensions are expressed in US units first; approximate metric equivalents follow in parentheses. The following is a conversion chart for inches to approximate mm equivalents where not given in the standard. TO CONVERT INCHES TO MILLIMETERS, MULTIPLY INCHES BY 25.4 TO CONVERT MILLIMETERS TO INCHES, MULTIPLY MILLIMETERS BY 0.03937.

1.4 American National Standards referenced in A156.10 are available from BHMA, www.buildershardware.com or the American National Standards Institute, www.ansi.org.

1.5 Tolerances Where only minus tolerances are given, the dimensions are permitted to be exceeded at the option of the manufacturers. All values which do not carry specific tolerances or are not marked maximum or minimum shall have the following tolerances: Linear dimensions shall be +1/16 in (1.6 mm). Pounds or pound force shall be + 2%. Degrees opening shall be + 2 degrees. Electrical measurements shall be + 2%.

1.6 Tests described in this standard are performed under laboratory conditions. Measurements shall be taken under neutral air pressure conditions. In actual usage, results vary because of installation, maintenance and environmental conditions.

1.7 Doors used as fire doors or smoke barriers have additional requirements not covered in this standard.

1.8 Where required by the authority having jurisdiction, products meeting the requirements of this Standard are required to comply with UL 325-Fifth Edition June 2002, and be listed or labeled by a nationally recognized independent testing laboratory and be under a periodic examination service.

1.9 Tests described in paragraphs 7.6 and 12 shall be performed under the supervision of a nationally recognized independent testing laboratory on preproduction samples prior to acceptance of the design for production and subsequent installation. Production units shall be under an in-plant follow-up inspection service.