HardwareHighlights



ANSI/BHMA A156.27-2019 American National Standard For Power And Manual Operated Revolving Pedestrian Doors

A156.27-2011 applies to power operated revolving type doors which rotate automatically when approached by pedestrians, some small vehicular use, and manual revolving type doors for pedestrians. Included are provisions to reduce the chance of user injury and entrapment. For further information about hinges, consult the full standard, ANSI/BHMA A156.27 for Revolving Doors.

BHMA has created this series of *Hardware Highlights* to provide useful, accessible information about builders hardware for architects, specifiers, builders, building code officials – anyone with an interest in devices that hang, control, secure, and trim the doors. BHMA is the trade association which represents almost all of the North American manufacturers of builders hardware. One of its main activities since 1983 has been the development and maintenance of ANSI-approved standards for 35 separate product categories.

Product Performance – Purchasers of Revolving Doors produced and installed in compliance with A156.27 can be assured their products will perform to their expectations.

Below are an explanation and some examples of the performance specifications for revolving doors:

SPEED	EGRESS	SIGNAGE	SENSORS
The maximum allowable	The standard covers all the	A section is devoted to	Sensors to detect the motion or
RPM is specified in tabular	necessary attributes to ensure	describe the necessary	presence of a person or object in
form for each type of door	safe egress in a loss of power.	signage including the	automatic revolving doors are
depending on the diameter.	Breakout with an egress path	familiar "Automatic Door"	described in full detail.
For example, a ten foot	providing a 36in. (910mm)	sign. The exact font size,	Performance of each of the
diameter revolving door	aggregate minimum width is	color and placement are	following types of sensors is
with a center shaft is limited	specified, along with the	shown. The "slow speed	defined: wing, end wall, bottom
to 5.7 revolutions per	applicable breakout forces	activation" sign, and	rail guard, and entry point
minute at standard speed.	and allowable exceptions.	"emergency stop" sign are	sensors
		also covered.	

- **Building Codes**Because Builders Hardware provides several attributes that are essential to building safety and performance, including egress and fire protection. BHMA products are designed to comply with all applicable requirements. For example, hardware for fire doors is evaluated and listed to UL 10C by accredited third party testing laboratories.
- Accessibility There are various types of trim which meet the ADA and A117.1 requirements for operable parts to be "operable with one hand and shall not require tight grasping, pinching or twisting of the wrist." Lever or paddle type trim meets these stipulations, while knob trim should be avoided for accessible routes. In addition, BHMA certified hardware must comply with the operational forces in their respective standards, which have been shown to be suitable for accessible applications.
- **Sustainability** BHMA products contribute to building sustainability through their verified durability, as well as material characteristics such as recycled content and recyclability. The reliable closing and sealing of openings can also contribute to energy conservation. BHMA has developed Product Category Rules, which will further define sustainability requirements and guide life cycle assessments and environmental performance declarations.

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Illustrations and Figures: A set of fourteen detailed figures are provided to augment the written requirements for all types of revolving doors. Sensor safety zones, activating zones, entrapment protection zones and breakout diagrams can be found.

