

Functional Form

Where form always follows function

The DoorWave - Patent Pending by Functional Form, LLC

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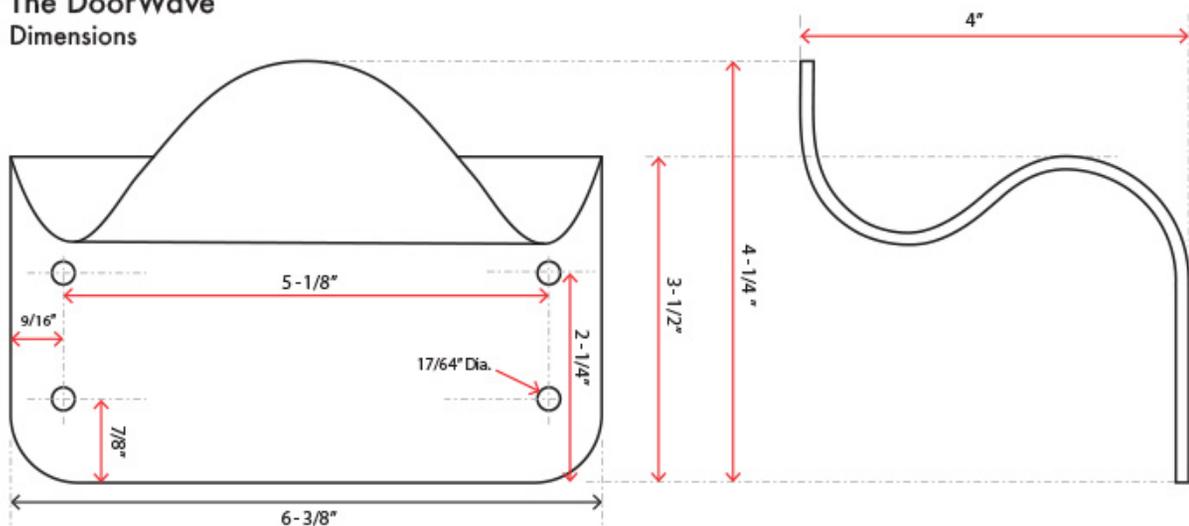
MODEL No: 0011

ISSUED: 6-16-16

REVISED: n/a

Heavy Duty Stainless Steel Hands Free Sanitary Door Pull

The DoorWave Dimensions



FRONT VIEW

SIDE VIEW

SPECIFICATION

Heavy Duty Stainless Steel Hands Free Sanitary Door Pull (DoorWave) for mounting on the inward pulling side of a one way public restroom door or other public door. The target application is a non-locking one way door that typically has a pull handle, whereby the DoorWave is added to the bottom outside edge of the door in addition to the existing door pull handle. This added foot operated pulling plate enables the user to exit the door without using their hands thus providing sanitary benefits. The DoorWave has a brushed stainless steel finish and is constructed of 12 gauge type 304 stainless steel. The DoorWave is manufactured out of one continuous piece of stainless and is designed specifically to prevent the entanglement of shoe laces or clothing material.

Heavy Duty Stainless Steel Hands Free Sanitary Door Pull shall be Model No. 0011 as manufactured by Functional Form, LLC, 702 Wedgewood Park, #506, Nashville, TN 37203.

INSTALLATION

There are two types of installations recommended. Type 1 relates to solid doors typically of wood or similar density material. Solid doors simply require the use of (4) four #14 - 1/4" x 1 3/4" to 2 3/4" (7mm x 45mm to 70mm) Pancake Head Connector Bolt Wood Screws (JCBW). The length depends on the door door thickness which can vary on commercial doors from 1 3/4" to 3". The screw should not protrude the outside of the door opposite the DoorWave device in any Type 1 installation. The screw should extend as far as possible inside the solid door and come within 1/4" to 3/8" of the outside door surface. 3/16" hole size is recommended for softwoods and 7/32" hole size recommended for hardwoods.

Type 2 door installation is specified for hollow doors of all construction types and may be used on solid doors if desired. Type 2 installation requires the use of (4) four 1/4" - 20 x 1 3/4" - 3" Wafer Head Ready To Assemble (RTA) connecting screws used in conjunction with 1/4" - 20 T-Nut embedded in the outside surface of the door. The T-nut is typically recessed and accepts the 1/4" - 20 screw and then is trimmed flush as to not protrude beyond nut so a kick plate may be fitted. Type M6 furniture connecting screw and fastener may also be used if no kick plate is installed on the outside of the door for a finished look.

Both Type 1 and Type 2 mounting of the DoorWave shall be positioned with the bottom edge of the device flush with the bottom of the door edge. It shall be mounted on either the left or right side of the door below the door handle on the inside of a inward opening door. The device when mounted should be parallel to the floor and 1/2" in from the door edge and squarely mounted along the bottom edge of the door. Simply clamp the DoorWave to the door with a c-clamp to use it as a template for drilling holes.

OPERATION

The sanitary hands free door pull can be operated by simply placing the toe of the users shoe below the device and pulling the door inward while applying upward pressure with the users foot. Alternately in the case of open toed shoes or ornamental shoes the user may place the sole of their shoe on the top of the device and while pressing down pull the door inward. The ability to use either the top or the bottom of the device supports numerous shoe types and provides the user with a sanitary option to exit the facility without additional contact to surfaces they may contain viruses or harmful bacteria.