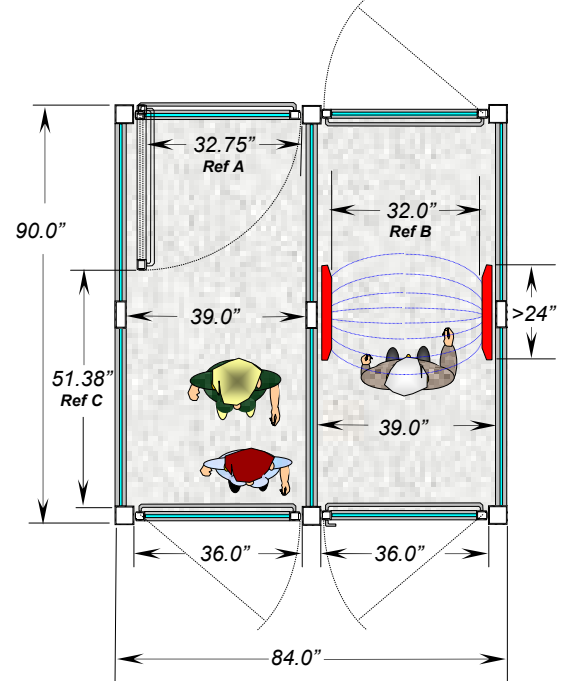


All products come under the guidance of the Federal Government, who's job it is to protect the public and standardize society to a common set of codes. Federal Codes have spawned State, County and City Codes most often associated with installation of all products that work together to provide our industry, and others a safe, secure and convenient way for all pedestrian travel.

These categories are: NFPA (National Fire Protection Association); NEC, (National Electrical Code); IBC, (International Building Code); ADA, (Americans with Disabilities Act); and either the UL (Underwriters Laboratories) or CE (European Union) listings. Only ADA standards are discussed in this document. All others meet or exceed the requirement for Life Safety.

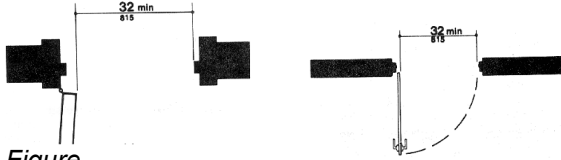
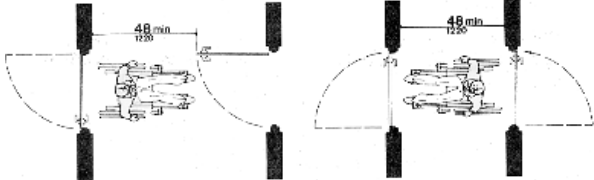
The following "ADA Standards for Accessible Design" #28 CFR Part 36 and their amendments are noted below with applicable comments covering the design for all Isotec products. Those items associated with the design, fabrication and installation are listed below.

**Minimum ADA Compliance Dimensions**



Model 9084A shown - (See CAD packages for other systems.)

ADA Codes	Isotec Interpretation
<b>Wheelchair Passage Width</b>	
<p>4.2.1* Wheelchair Passage Width. The minimum clear width for single wheelchair passage shall be 32 in (815 mm) at a point and 36 in (915 mm) continuously (see Fig. 1 and 24(e)).</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Figure 1</b></p> </div> <div style="text-align: center;"> <p><b>Figure 24e</b></p> </div> </div>	<p>All Isotec door openings are 32.75" clear when fully open while structures are designed with a minimum of 38" for interior passage width, 2" greater than required.</p> <p>Figure 24e refers to the metal detector opening. All metal detectors are purchased with 32" openings.</p> <p style="text-align: center;"><b>Reference 'A'</b></p>

<b>Clear Width</b>		
<p>4.13.5 Clear Width. Doorways shall have a minimum clear opening of 32 in (815 mm) with the door open 90 degrees, measured between the face of the door and the opposite stop (see Fig. 24(a), (b), (c), and (d)). Openings more than 24 in (610 mm) in depth shall comply with 4.2.1 and 4.3.3 (see Fig. 24(e)).</p>  <p>Figure</p>	<p>All standard doors manufactured by Isotec are 36" wide. These doors are center pivoted and when opened measure 32-3/4" clear.</p> <p style="text-align: center;"><b>Reference 'B'</b></p>	
<b>Two Doors in Series</b>		
<p>4.13.7 Two Doors in Series. The minimum space between two hinged or pivoted doors in series shall be 48 in (1220 mm) plus the width of any door swinging into the space. Doors in series shall swing either in the same direction or away from the space between the doors (see Fig. 26).</p> 	<p>Isotec designs its systems with an overall length of 90" minimum. This dimension provides the 48" minimum spacing between doors and allows for the full opening of the opposite door.</p> <p style="text-align: center;"><b>Reference 'C'</b></p>	
<b>Door Hardware</b>		
<p>4.13.9* Door Hardware. Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.</p>	<p>All hardware is ADA compliant.</p>	
<b>Door Closers</b>		
<p>4.13.10* Door Closers. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 in (75 mm) from the latch, measured to the leading edge of the door.</p>	<p>All doors are provided with a 90 degree, no hold open closer, with a variety of adjustments for closer speed, latch speed. All adjustments are made in the field after the ballistic materials are installed.</p>	
<p>A4.13.10 Door Closers. Closers with delayed action features give a person more time to maneuver through doorways. They are particularly useful on frequently used interior doors such as entrances to toilet rooms.</p>	<p>This type of closer is not advisable in this application.</p>	
<b>Door Opening Force</b>		
<p>4.13.11* Door Opening Force. The maximum force for pushing or pulling open a door shall be as follows:</p> <p>(1) Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.</p> <p>(2) Other doors.</p> <p>(a) exterior hinged doors: (Reserved).</p> <p>(b) interior hinged doors: 5 lbf (22.2N)</p> <p>(c) sliding or folding doors: 5 lbf (22.2N)</p> <p>These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.</p>	<p>Isotec uses closers with a number of features including an adjustable Power Adjustment that allows for a 5# to 0-8.5# adjustment of the doors open pressure. This adjustment is made in the field after the ballistic panels are installed.</p>	