

INSTALLATION GUIDE



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We would be very interested to hear any comments you might have on this new installation manual. We are particularly interested in learning of omissions or subjects that are unclear. Please call, fax, or e-mail and direct your comments to Technical Service. Thank you very much for your assistance.

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TABLE OF CONTENTS

1. Overview 3
2. Safety and Quality Assurance ... 4
3. Cautions and Warnings 4
4. Components 5
5. Assembly..... 5

1. Overview

The Tate ContainAire Hinged Door is the recommended door system for both cold and hot aisle containment because it combines cost-effectiveness and ease of installation. Over the long-term the ContainAire Swinging Door will also reduce “total cost of ownership” by making it easier to fully separate cold supply and hot exhaust airflow. The sturdy aluminum frame is designed to be durable and long lasting. Other features include a locking door and magnetic stays and a no-floor threshold which eliminates a tripping hazard.

The ContainAire Hinged Door includes all of the components and fasteners required to assemble and install the door. The door can be installed without having to ‘hang it’ onto the aisle end racks. Instead the door sits on the floor with two small attachments to the top of the racks.

As shown in Figure 1, the door is attached to the floor with four L brackets. The top is attached with two brackets to the top of the aisle end racks. The base can be attached into either the raised floor tiles or into a solid floor. The attachments at the top can be solid brackets that screw into the rack or a combination of a turnbuckle and guide wire that attaches into the racks various openings such as vent slots. The weight of the door rests on the floor. Once installed with the doorposts plumb, the doors will easily open and shut.

2. Safety and Quality Assurance

The following recommendations should be carefully observed as part of any door installation. In particular, the safety of the installers must be placed ahead of all other considerations. Some of the following warnings or cautions have been highlighted in the appropriate sections of the manual.

- **DO** read this Installation Guide thoroughly prior to beginning any work.
- **DO NOT** lift the door alone.
- **DO NOT** drill into the raised floor without first ensuring that no electrical wires are in the area of the drilling
- **DO NOT** screw into the aisle end rack without first ensuring that no electrical cables are in the area of the screw.
- **ALWAYS** have at least one person securing the door remains upright while the installation is taking place.
- **ALWAYS** wear personal protective equipment (PPE) when drilling, cutting, or attaching the door. PPE includes: Gloves, Safety eyeglasses, Hardhats.
- **NEVER** leave the door unattended (secured) until the installation is completed.

3. Cautions and Warnings

This manual contains important information of the installation of your ContainAire Hinged Door . We strongly recommend that you read and follow the instructions contained in this manual.

At several points in the manual items of special interest or significant impact are highlighted by one of the following notices.

Warning:

Hazards or unsafe practices that could cause personal injury or death.



Caution:

Hazards or unsafe practices that could cause product damage.



Note:

Significant points of interest.

4. Components

The ContainAire Hinged Door consists of the following components:

- Door Frame Kit
- Door (Left or Right Handed)
- Floor Anchors

The major components for the door kit are shown under Step 2. This figure shows a fully assembled ContainAire Hinged Door. The door comes in three basic components: The doorframe and one left or right hand door.

Note:

Please refer to the ContainAire Application Guide for additional information and to determine proper product selections.

5. Assembly

Estimated Time Requirement for Unpacking/Assembly/Installation

The experienced installer of the ContainAire Hinged Door should plan on approximately 4 work hours for unpacking, assembly and installation. Two individuals are required for installation, suggesting a total install time of two hours. (4 work hours / 2 individuals = 2 install hours) Inexperienced installers should double the above time estimate.

Floor types (solid, raised) may require different anchoring methods to ensure proper strength. Choose anchors that bolt to the raised floor or solid floor.

Tools Required:

- Drill
- 3/8 drill bit
- 3/16 Allen wrench
- Level
- Plumb bob

Procedure:

1. Unpack the ContainAire Hinged Door and separate the door from the packing material.

Caution:

Use Caution when separating the packing material from the door, cutting into the aluminum or clear Plex material as you separate the packing material from the door will cause damage.



2. Assemble the frame.

- a. Start by attaching the two base pieces to the four doorposts using the 5/16" by 1 3/4" screws.
- b. Insert 1 two-hole sliding nut into each of the 2 channels of each door post where the four floor anchors will later be attached.
- c. Attach the header using the same 5/16" by 1 3/4" screws.
- d. Attach the four floor anchors using the 5/16" by 11/16" bolt.

The door and frame should look like this:

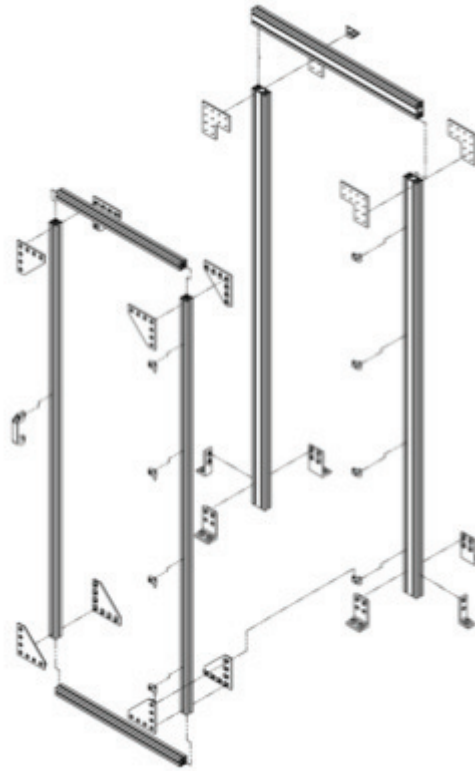


Figure 1: Frame Assembly



Figure 2: Assembled Door Frame

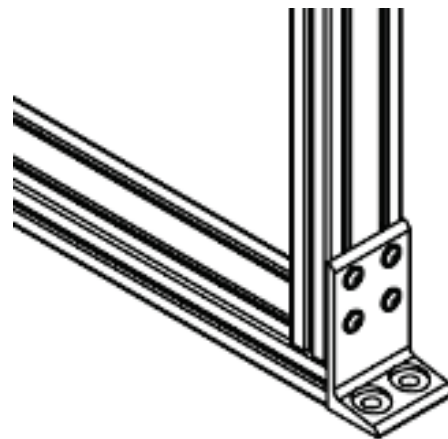


Figure 3: Floor Anchors

3. Position the doorframe

Using two or more people, stand up the frame into what would be its final position. Ensure that the frame is placed so that it allows for safe entrance and exit from the contained aisle. Likewise ensure that the frame fully butts up against the aisle end racks so as to prevent air from leaking around the sides.

Warning:

The doorframe is heavy. Should it fall it could cause injury or even death. Always secure the door by at least one person while measuring the doors layout.



Note:

Only the frame is required to mark the floor anchors. Do not attach the doors to the frame yet.

4. Level and plumb the doorframe

Once the door is in the desired place attach one of the floor anchors on the outside corner. Next use a level to determine that the doorpost is plumb. The attached floor anchor will ensure the frame does not move.

5. Drill the floor for anchor brackets

Mark the floor where the anchor brackets meet the floor. It's best to draw a small circle in the shape of the opening that matches the bolt. Move the frame so as to drill the marked holes.

Drill a 5/16-inch hole on marks that match the doorframe brackets



Figure 4: Drill the floor