FlexTec™ Installation Manual

Rytec Installation Safety information

The meaning of signal words

### Summary

Technical content produced by Rytec includes safety information which must be read, understood and obeyed to reduce the risk of death, personal injury or equipment damage. This information is boxed to set it apart from other text. The boxed text identifies the nature of the hazard and appropriate steps to avoid it.

The safety alert symbol identifies a situation that can result in personal injury. The accompanying signal word indicates the likelihood and potential severity of the injury. The meaning of the signal words is as follows:

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WARNING</strong></td>
<td>Warning indicates a hazardous situation that, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Caution indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.</td>
</tr>
<tr>
<td><strong>NOTICE</strong></td>
<td>Notice is used to address practices not related to physical injury but which, if not followed, could result in damage to the door or other property.</td>
</tr>
</tbody>
</table>

**Installation safety**

- Do not install any Rytec product until you have read and understood the safety information and instructions. Make sure all applicable regulations are observed and obeyed at all times.

- Observe these precautions while installing the door:
  - Only trained, qualified and authorized individuals are to install the door and the control system.
  - The installation site comprises the physical area required to safely uncrate, stage and install the door.
  - Make sure that all personnel at the installation site have been informed of the date, time and location of the installation.
  - Make sure that there is no pedestrian or vehicular traffic within the installation site for the duration of the installation.
  - Make sure you have and use all required Personal Protective Equipment.
  - Make sure you have adequate personnel and equipment to safely perform all lifts.
  - Make sure that you have been informed of any hazardous conditions that exist within the installation site.
  - Make sure that the installation site is kept clear of obstructions and debris and that the floor is dry.
  - Make sure you are aware of the location of all power lines, piping and HVAC systems within the installation site.
  - Make sure all accessories installed with the door are approved by the manufacturer.

### Requirements – Staffing

- Two installers
- A licensed electrician is recommended for making all electrical connections

### Electrician’s responsibilities

Refer to the Rytec System 4® Drive & Control Installation & Owner’s Manual for a complete list of the electrician’s responsibilities.

- **WARNING**
  - Electrical work must meet all applicable local, state and national codes.
  - Failure to wire the door correctly can cause shock, burns or death to the people who install, use or service the door.
  - Failure to comply also voids the warranty for the door.

### Requirements – Site Conditions

- Installers must have unrestricted access to the door opening at all times during the installation.
- Make sure there is no pedestrian or vehicular traffic within the installation site for the duration of the installation.

### Requirements – Lifts

- **WARNING**
  - A forklift is mandatory for the safe and proper installation of this door.
- Forklift that meets the following specifications:
  - Minimum 4,000-pound lift capacity
  - Minimum height ability: door height + 12”
  - 48-inch wide fork
  - Side shift capability
- Scissor lift that meets the following specifications:
  - Can hold both installers
  - Minimum height ability: door height
  - Side shift capability
- Alternatively, two ladders of sufficient height to safely access the door head assembly

### Safety icons used in this manual

- Shock hazard
- Fall hazard
- Crush hazard
- Cut hazard
- Forklift
Terms used by Rytec to describe the parts of the door

This illustration shows the terms used by Rytec technical support to refer to the major components of your door. Using these terms helps technical support provide assistance as quickly as possible.
Call 800-628-1909

How to uncrate the door and inspect the installation site

NOTICE
If more than one door is to be installed, treat each crate as a separate installation. Each door is shipped in a separate crate, and all parts for the door are in the same crate.

Using parts from different crates in the same door voids the warranty for all doors in the installation.

Check the crate. Make sure all serial numbers match the number on the crate, and all visible parts have no shipping damage.

Motor: check the serial number on the attached tag.

Head assembly: drive side may be left (LH) or right (RH). LH is used for this manual.

Small parts box: check the serial number on side of box.

Open box, remove the red documents envelope, then open the envelope and get the object list. Check serial numbers on both.

Systems 4 controller box: check the serial number on side of box.

Counterweight: crated under head assembly.

Motor Cover and Motor Cap (optional): may be 1-piece or 2-piece.

Cover (optional): read section on side columns in this manual before installing.

Side Columns: check the serial number taped to top of columns. Read section on side columns in this manual before installing.

Head assembly end guards: Non-drive side guard has wider flanges than drive side guard.

Check your tools. Make sure you have all tools and supplies for the installation.

Tools you need
- Laser level
- Bar clamp
- Measuring tape
- Spirit level
- Carpenter's square
- Phillips screwdriver
- Hex wrench
- 5/32" 1.5mm wrench
- 5/16" 3/8" 17mm wrench
- Socket wrench
- Two socket wrenches needed

You also provide
- Anchoring tools
- Anchoring hardware
- Shims
- Caulk
- Wood block
- 8"
4 *Check the measurements.* Make sure the door will fit in the installation site.

1. **Locate** the production width \( a \) and the production height \( b \) on the object list.
2. **Check the production width:** measure the distance between the inside edges of the end plates on the head assembly \( c \). Compare \( c \) to \( a \). If they are different, update the object list.
3. **Calculate the width to center:** divide the production width by 2. Write the result on the object list. You will use this measurement when you center the door.
4. **Find the total width of the door:** measure the width of the front spreader \( d \). Write the result on the object list.
5. **Calculate the total height of the door:** measure the height of the front spreader \( e \). Add this to the production height \( b \). Write the result on the object list.
6. **Measure the door opening** to make sure the height and width match the production width and production height on the object list.
7. **Inspect the site around the door opening:** make sure the total width and height of the door will fit in the space, and that there are no obstructions.
8. **Make sure there is enough space to lift the door:** the head assembly is lifted from the top. Make sure the site has space for the total height of the door plus the height of the forklift backrest.

**Call Rytec technical support at 800-628-1909** if you have any questions about the measurements at the site.
How to install the encoder

1. Insert encoder into the mounting bracket and secure it with the provided screws.

2. Ensure the encoder cable is properly connected to the motor control panel.

3. Verify the encoder cable length matches the system requirements. Recommended encoder cable length: 15 meters (49').

How to center the door in the door opening

**IMPORTANT**
Rytec doors are engineered to be centered in the door opening, so follow these steps even if the width of the opening and the production width match exactly.

1. **Measuring tape**
   - Measure width of door opening \( w \), find the halfway point, and mark the centerline of the opening.

2. **Carpenter’s square**
   - Use the width to center from the object list \( \frac{1}{2} a \).
   - Measure and mark the reference line for the drive side column.

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**Serial number**
D0084193-010

**Configuration**
Door Serial Number D0084193-010

**Custom Order**
Standard Order

**DOOR MODEL NAME**
FlexTec Door

**Production Width (in)**
144

**Production Height (in)**
168

**Fabric Type**
1ply Fabric

**Fabric Color**
Blue

**Line Voltage**
460V

**Line Phase**
Three Phase

**Power motor mount side**
Left Hand

**Horsepower**
3.0

**width in feet**
12

**height in feet**
14

**Qty of doors in crate**
1

**Domestic or Export crate**
Domestic Crate

**Control Logic System**
4 door control

**Motor Gearbox Ratio**
8.64

**Motor Duty**
Standard Duty

**Motor Cover**
No Motor Cover

**Loop Seal color**
Black

**Side Column LEDs**
Side column LEDs

**Window Style**
20 x 20 Velcro PVC windows

**Number of windows**
1

**Window location above floor**
59.000

**Motor Cord Length (feet)**
22

**Encoder Cable Length**
15 Meter encoder cable (49’)

**System 4 Enclosure**
Sys4 standard NEMA 4X enclosure

**System 4 Disconnect type**
No Disconnect

**List Price Variant**
20X20 WINDOW

**List Price Variant**
P_FLEXTEC-12X12

**List Price Variant**
P_SEVERE_DUTY

**BOM level**
0

**Control Box Location**
Shipped in Crate

**Mini Display for System 4**
No Sys4 Mini Display

**Source of Rilon Panel**
Make Rilon Panel

**Counterweight Clearance**
39.299

**Counterweight Length**
33.000

**Counterweight travel**
77.701

**Drum Diameter**
4.000

**Drum Revolutions**
5.418

**Weight per counterweight**
41.538

**Panel Thickness**
0.793

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**Order type**
ZP02

**RYTEC MTO Order**

**Order number**
2886902

**MRP controller**
100

**MAIN ZMAT**

**Creation Date**
01/21/2019

**Production scheduler**
T3

**Tier 3**

**Order quantity**
1 EA

**Finish**
01/28/2019

**Start**
01/25/2019

**Material number**
2301

**Material description**
FLEXTEC

**Reservation number**
0002256035

**Status**
REL MSPT PRT PCNF PRC GMPS RESA SETC

**Object list**
Duplicate

**Plant**
1000

Rytec Corporation

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Plumb, level, square: how to position the door correctly as you install the side columns and head assembly

**NOTICE**
Call 800-628-1909 immediately and stop the installation if you are not able to correctly position the door.

1. Remove the top and bottom front covers from both side columns.

**Step 1: Level the site, install and plumb the side columns**

1. **Plumb** the door opening. If the wall is not plumb, or there is bowing or an obstruction in the wall, you will need to shim the columns.

2. **Level** the floor.

   - **Measure** distance from floor to laser line on both sides of door opening.
   - If measurements are the same, the floor is level.
   - If measurements are not the same, shim the side with the larger number. Use the difference for the height of the shim.
   - Measurements should match when you measure with the shims in place.

---

**IMPORTANT SIDE COLUMNS**

- Don’t run anchors through the top two anchor points on the side columns until after the head assembly is installed. These points anchor both the side column and the head assembly.

- Washers must fit within the raised area around the anchor hole (dotted lines). Washers that extend beyond this will block the side column covers.

- Make sure you remove the protective film from both light curtains when the installation is complete. Also, make sure the light curtains are level after the side columns are installed. The light curtains must be vertically aligned to work properly.

- Number of screws varies based on height of door.
3. Clamp the drive side column into place.

- **Clamp**

4. Plumb the drive side column.

- **Laser level**

5. Anchor the drive side column to the wall. Set anchors tight. Remove clamp.

- **Clamp**

6. Measure and mark the reference mark for the non-drive side column.

- **Object list**

7. Clamp the non-drive side column into place.

- **Clamp**

---

**IMPORTANT**

Make sure you use only the bottom four anchor points, and the washers are the correct size.

**Align** inside edge of side column against reference mark you made when you centered the door.

**Make sure** clamp is above Pathwatch LED strips and light curtain.

**Align** inside edge of side column against reference mark.

**Use** the production width from the object list. Measure and mark the reference line for the non-drive side column.

**Make sure** clamp is above Pathwatch LED strips and light curtain.

**Align** inside edge of side column against reference mark.
8 Plumb the non-drive side column.

9 Set a laser line parallel to the wall 1" (one inch) in front of columns. Make sure the line is parallel to the wall.

10 Plumb the columns to each other: make sure distances from front of columns to laser line match.

11 Loosely anchor the non-drive side column to the wall. Remove clamp.

12 Before installing the head assembly, make sure the preinstalled cables for the light curtain (gray) and front and rear Pathwatch (black) are below the third anchor point (dotted line) so they are not pinched or crushed when the head assembly is installed.
Step 2: Install the head assembly

1. Manually pull the door panel into the drive tracks in both side columns. Then finish lowering the head assembly.

2. Make sure the head assembly is aligned correctly.

3. Anchor head assembly to columns.

4. Anchor both side columns to the wall using anchor points ① and ②. Set anchors tight.

5. Remove lift pockets.

6. Note: Head assembly is NOT resting on columns.
Step 3: Recheck and anchor the side columns

1. Plumb both side columns from the front again. Realign if necessary.

2. Square the door: measure from bottom corner of drive side to top corner of non-drive side, then measure from bottom corner of non-drive side to top corner of drive side. Make sure the measurements are the same.

How to run the wires from the non-drive side column

1. On the non-drive side: cut ties, run cables through hole to rear spreader.

2. Thread cables through the rear spreader.

3. Thread cables through hole in drive side column. Run cables together with drive side cables.

4. On the drive side, remove the motor tag and install the drive side end guard. This end guard has shorter flanges.

CAUTION
Self-drilling screws that secure rear seal to rear spreader are exposed along spreader.
How to install the counterweight

NOTICE
Do not unspool or trim the counterweight strap. The strap is pre-cut and pre-spooled to match the door height.

NOTICE
Make sure door is in fully open position before setting counterweight.

1. Cut tie to release strap. Roll strap down side column.

2. Place counterweight on 8-inch block of wood until strap is tightened.

3. Loosen and remove bolts, nuts and retainers. Thread strap through top bracket from front to back and pull strap tight. Replace retainers, bolts and nuts and tighten to secure strap in place.

4. Caulk head assembly and side columns. Install dome plugs from small parts box.

How to finish the installation

1. Install the non-drive side end guard. This end guard has wider flanges.

2. Insert a 12-point 15mm socket into the bottom of the motor and engage the manual axle. Pull down on the brake release lever to release the brake. Turn the wrench counterclockwise to lower the door panel two feet below head assembly, then release the brake release lever.

3. Place counterweight on 8-inch block of wood until strap is tightened.

4. Caulk head assembly and side columns. Install dome plugs from small parts box.

5. 3/8” SMALL PARTS 0550016

6. 5/32” KEEP REUSE 0550088
How to install the cover and motor cover/cap (optional)

**NOTE:** The configuration of the front spreader and cover change based on the width of the door.
- The front spreader is 1-piece up to a production width of 121”.
- It is 3-piece when the production width is greater than 121”.
- The cover is 1-piece up to a production width of 97”.
- It is 2-piece when the production width is greater than 97”.
- The motor cover/cap are a separate option from the cover and may or may not be included. Check the object list.

### How to install the cover

1. **If front spreader is 3-piece:** remove the top bolt and nut from both overlap points so the cover will lie flat.

2. **Line up** the cover panel(s) so that the front lip overlaps the front spreader. **Install** self-tapping screws through all holes in cover.

### How to install the motor cover and cap

1. **SMALL PARTS**

2. **SMALL PARTS**

3. **SMALL PARTS**

4. **SMALL PARTS**
How to install the System 4 controller and wire the door

⚠️ WARNING
All electrical work must be done by a certified electrician, and must meet all applicable local, state and national codes. Failure to wire the door correctly could result in shock, burns or death to the people who install, use or service the door.

⚠️ WARNING
The high-voltage power to the controller must be properly grounded. Improper grounding could result in shock, burns or death to the people who install, use or service the door, as well as catastrophic motor failure.

▪ If the service is floating, ungrounded or open delta type power, an isolation transformer must be installed.
▪ Metal conduit entering the bottom left of the control box contacts the metal protection ground plate inside the controller. If non-metallic conduit is used, a protection ground conductor must be used.

NOTICE
The System 4 installation must meet all of the standards and follow all of the steps shown in these instructions. Failure to do so voids the warranty for the door.

▪ The high-voltage and low-voltage conduits must be separated by a distance that meets all applicable federal, state and local codes and regulations.
▪ Wires must be cut to length. Do not loop wires or leave excess length untrimmed.
▪ Use shielded wiring where indicated in these instructions.
▪ If you splice wires, you must use the same gauge for the entire length. Correct gauge is listed in the steps in these instructions. All field wiring must be a minimum 60°C 600V rated copper stranded type.

Contract Rytec Technical support at 800-628-1909 before starting the installation if you cannot meet any of these standards or have questions about how to implement them.

Before you begin

1 Make sure you have all supplies and tools.

Supplies that you provide
- Conduit for high-voltage and low-voltage wiring
- Mounting hardware for controller (3 anchors)

Tools, you will need
- Power drill
- Step drill bit
- #2 Phillips
- T20 Torx
- Precision screwdriver
- Wire tool
- Cement drill (if needed to mount controller)

2 Check the job site.
- The ambient temperature must be between -4°F and 149°F at all times.
- The mounting surface for the System 4 controller and fused disconnect must be structurally sound and free of mechanical shock and vibration.

Not for freezer doors, the controller and fused disconnect must be mounted on the warm side of the door.

3 Install the high-voltage power supply.
- Provide a high-voltage power supply that matches the electrical spec for the System 4 controller.
- A fused disconnect is recommended. Fuses must meet NEC code for FLA listed on the electrical spec for the System 4 controller.
How to install the System 4 controller

1. **Open** the System 4 controller box and get the controller and ferrite filters. **Loosen** screws on the control box and **open** the cover panel.

   - Ferrite filters: 2 large, 3 small

   - System 4 controller

   - Electrical specs

   - Serial number

   - #2

Verify that the serial number and electrical specs for the controller match the door.

2. **Install** the control box onto the wall using the hardware you have supplied.

3. **Drill** holes through the bottom of the control box for conduit.

   - **NOTICE**
     - Conduit must enter through the bottom of the control box.
     - Drilling holes in the side or top of the control box voids the warranty.
     - High-voltage wires must enter through the left side of the box bottom.
     - Low-voltage wires must enter through the right side of the box bottom.
     - Holes must be drilled. The indentations in the box bottom are not knockouts.

How to install the high-voltage wiring

1. **Connect** the supply voltage wiring from the disconnect.

   - **Wire gauge:** 12 AWG

   - **WARNING**
     - Set the disconnect switch to the **OFF position** and perform a lockout/tagout of the high-voltage disconnect before installing wiring to the controller. Do not set the disconnect switch to the **ON** position until the wiring installation is complete and the controller is fully earth grounded per instructions.
     - Failure to comply could result in shock, burns or death

   - **Do not** try to remove the green terminal block from the circuit board.
     - It is fixed in place and will break.

   - Maximum torque for all screws is 2.5 in-lbs.

   - Place one large ferrite filter around all three wires, and one small filter around each individual wire.
2. Connect the high-voltage wiring from the motor.
   - **Wire gauge:** 16 AWG
   - **Shielding:** braided copper mesh and drain wire

   - **Do not try to remove the green terminal block from the circuit board. It is fixed in place and will break.**

   - **Maximum torque for all screws is 2.5 in-lbs.**

   - **Maximum wire length between motor and controller:** 100’ (one hundred feet).

   - **For p-clip T20**

   - **Place one large ferrite filter around all three wires.**

   - **The shield (braided copper mesh) and drain wire (bare metal) must be in contact with the P-clip. To ensure a tight contact:**
     1. Loosen the P-clip.
     2. Strip high-voltage cable jacket to expose braided shield, then pull back shield and wrap drain wire around it.
     3. Run wires, shield and wrapped drain wire under clip.
     4. Tighten clip.
     5. Trim excess drain wire.

---

**How to install the low-voltage wiring**

1. Connect the brake wiring from the motor.
   - **Wire gauge:** 18 AWG
   - **Shielding:** unshielded

   - **Low-voltage wires can be run in the same conduit.**
   - **All low-voltage wiring must be 24 VDC+ only, installed per NEC to Class II power supply requirements.**
   - **Maximum torque for all System 4 controller screws is 2.5 in-lb.**

2. Connect the wiring from the Pathwatch LED strips.
   - **Wire gauge:** 18 AWG
   - **Shielding:** unshielded

---

**NOTICE**

- Low-voltage wires can be run in the same conduit.
- All low-voltage wiring must be 24 VDC+ only, installed per NEC to Class II power supply requirements.
- Maximum torque for all System 4 controller screws is 2.5 in-lb.
3 Connect the wiring from the encoder.
Wire gauge: 24 AWG
Shielding: metal foil and drain wire

The drain wire (bare metal) must be in contact with the P-clip.
To ensure a tight contact:
1. Loosen the P-clip.
2. Strip encoder cable jacket to expose wires.
3. Trim and bend red, pink, gray and blue wires.
   Tape to jacket.
4. Wrap drain wire around jacket and unused wires.
5. Slide cable under P-clip and tighten.
Make sure there is maximum contact between clip and drain wire.
6. Trim excess drain wire.

4 Connect the wiring from the light curtain.
Receiver: wire gauge: 24 AWG  Shielding: metal foil and drain wire
Transmitter: wire gauge: 22 AWG  Shielding: metal foil and drain wire

Mark controller end of receiver cable (8-wire, yellow connector) as “Light curtain receiver”
Mark controller end of transmitter cable (4-wire, black connector) as “Light curtain transmitter”

**NOTICE**
- Conduit must enter through the bottom of the control box.
- Drilling holes in the side or top of the control box voids the warranty.
- **High-voltage wires** must enter through the left side of the box bottom.
- **Low-voltage wires** must enter through the right side of the box bottom.
- Holes must be drilled. The indentations in the box bottom are not knockouts.
How to set the open and close limits on the door

1. **Do This**: Turn on power to controller
   **Result**: The controller opens at the New Limits (210) parameter. Scrolling message: Press Reset button to begin

2. **Do This**: Hold Reset button if position OK
   **Result**: Scrolling message: Hold Reset button if position OK

3. **Do This**: Hold Reset button if position OK
   **Result**: The controller lowers the door panel to the bottom of the light curtains and waits.

4. **Do This**: Open Limit Set
   **Result**: The controller opens at the New Limits (210) parameter. Scrolling message: Press Reset button to begin

5. **Do This**: Search Edge Auto Close
   **Result**: The controller lowers the door panel to the bottom of the light curtains and waits.

6. **Do This**: Object 232 Acl1 = 4Sec
   **Result**: The controller lowers the door panel to the bottom of the light curtains and waits.

---

**NOTE**: The System 4 display uses hexadecimal numbers. Each digit has 16 possible values instead of 10. The display uses the ten numeric characters (0-9), plus six letters (A-F), which represent the values from 11 through 16. This means, for example, that you must press the UP arrow sixteen times to change a value from 0000 to 0010.

---

**Icon key**

- Press
- Press and hold
- Press UP or DOWN arrow, as needed

---

**CAUTION**

Make sure that people and vehicles do not pass through the open doorway until the automatic calibration is complete. The door can open or close unexpectedly, resulting in injury.

---

**NOTE**: The door may not close completely during automatic calibration. This is normal. When calibration is complete, the door will close correctly.

---

**The Controller Display**

- **Parameter name**: 0 = Operator level access
  S = Service level access

- **Parameter number**: All three digits are hexadecimal

- **Parameter value**: ? = value being changed
  □ = change saved

**Blinking cursor**

- On left side of display: press arrows to change parameter number
- On right side of display: press arrows to change parameter value

---

**The Controller Controls**

- **Stop/Reset Button**: Press to toggle the flashing cursor between left and right
  Press and hold arrows to cycle quickly

- **UP Arrow**: Press to increase a value or a parameter number
- **DOWN Arrow**: Press to decrease a value or a parameter number

---

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How to manually reset the close limit (optional)

First: set the controller to Parameter mode and access Service level parameters

<table>
<thead>
<tr>
<th>Do This</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 sec. You are in Parameter mode. Go to parameter 999.</td>
</tr>
<tr>
<td>2</td>
<td>until 999 displays The Password parameter (999) screen displays.</td>
</tr>
<tr>
<td>3</td>
<td>You can now change the value of parameter 999.</td>
</tr>
</tbody>
</table>

Next: navigate to Parameter 275 and change the value

<table>
<thead>
<tr>
<th>Do This</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>until parameter displays The default value is -12.</td>
</tr>
<tr>
<td>2</td>
<td>You can now change the value.</td>
</tr>
<tr>
<td></td>
<td>The UP arrow increases the value and raises the close limit position for the door.</td>
</tr>
<tr>
<td></td>
<td>The Down arrow decreases the value and lowers the close limit for the door.</td>
</tr>
<tr>
<td></td>
<td>A change of 6 to the value equates to roughly one inch.</td>
</tr>
<tr>
<td>3</td>
<td>until new value displays</td>
</tr>
<tr>
<td>4</td>
<td>The new value is saved You must press and hold the Stop/Reset button for five (5) seconds to save the change.</td>
</tr>
<tr>
<td>5</td>
<td>You return to run mode.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do This</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>You can now go to a parameter 275.</td>
</tr>
</tbody>
</table>

How to test the door and the safety features

1 Run the door through at least forty cycles of opening and closing.
   - Make sure the door panel rises to the fully open position, remains in place for the standard time, then closes to the fully closed position.
   - Make sure the fully open and fully closed positions remain at the levels set by the open and close limits.
   - Make sure the loop seal is level when the door is fully closed.

2 While the door cycles, look and listen for:
   - Unusual noises such as grinding, whining or excessive motor noise
   - Changes in door speed while it moves up or down
   - Excess movement by the motor, drive or drum.
   - Unexpected delay in activation or unusually long time period before automatically closing.

3 Activate the door using each activating system at least three times per system.

4 Make sure the Pathwatch LED strips operate correctly as the door opens and closes:
   - Continuous red light while the door opens or closes.
   - Three-second sequence of red-yellow-combined before the door closes.

5 Test the light curtain by placing your hand in the path of the door at the top (a), middle (b) and bottom (c) of the light curtain while the door panel closes.
   - Make sure the door panel returns to the fully open position each time the light curtain is activated.
   - Make sure the door panel stops immediately when you place your hand at the top (a) of the light curtain, and gradually when you place your hand in the middle (b) or at the bottom (c).

6 Test the self repair system by striking the door panel with your hand while the door opens and closes.
   - Strike hard enough to push both sides of the door panel out of the drive tracks.
   - When the door panel is lowering, the panel should stop, then reverse direction and self repair while it rises.
   - When the door panel is rising, the door should pause, then continue to rise and self repair while it rises.
   - Make sure the door panel has reinserted itself into both drive tracks by the time the door has closed.