ASSA ABLOY

Albany RR300 Stainless Mechanical Install & Owner's Manual

INTRODUCTION

The contents of this manual are designed to help you install and setup ASSA ABLOY Albany RR300 Stainless™ high speed doors. **DO NOT operate or perform maintenance on the high speed door unless you have read through the instructions in this manual.**

The safety alert symbol is used to identify safety information about hazards that can result in personal injury. A signal word (DANGER, WARNING, or CAUTION) is used with the safety alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

⚠ DANGER   **DANGER indicates a hazard that, if not avoided, will result in death or serious injury.**

⚠ WARNING   **WARNING indicates a hazard that, if not avoided, could result in death or serious injury.**

⚠ CAUTION   **CAUTION indicates a hazard that, if not avoided, might result in minor or moderate injury.**

CAUTION   **CAUTION, when used without the alert symbol, indicates a situation that could result in damage to the door.**

NOTICE   **NOTICE is used to inform you of a method, reference, or procedure that could assist with specific operations or procedures.**

Other symbols that may be used in this manual are:

Lock Out / Tag Out	Crushing	Fire	Shock	Read Manual

DOOR INSTALLATION

 WARNING

Improper installation of anchoring devices or installation into aged or unsound concrete block, or other wall material may result in premature wear, product failure, property damage, or serious personal injury.

 WARNING

Lock-Out Tag-out all electrical power supplied to the door before making any electrical installations or connections. Also Lock-out Tag-out any equipment near the installation site if that equipment may be inadvertently operated into the area used to assemble and install the door. Failure to properly de-energize electrical circuits and disable equipment during installation and/or maintenance could result in death or serious injury.

 WARNING

Use proper lifting equipment and techniques. Properly secure all loads. Failure to properly secure all lifting loads could result in death or serious injury.

 Secure the work area so that persons not working directly on the installation do not enter the work area.

SITE PREPARATION

Electrical Supply
> Qualified electrician must make all electrical mountings and connections in accordance with all applicable regulating body(s) electrical codes and standards. See applicable electrical manual for specifications and wiring instructions.

Door Opening
1. Are the door jambs and support wall structurally sound providing a flat surface for the side columns to mount against?
2. Check the width and height of the door opening and verify the measurements against the dimensions of the door.
3. Is the opening square? Plumb?
4. Is the floor level across the opening?

Make all necessary structural repairs and improvements to provide a "yes" answer to each of the questions above.

TOOLS AND MATERIALS REQUIRED

Personnel
- Two people to install the door
- One person qualified to operate forklift, hoist, or crane
- One electrician to install and connect the control panel and all electrical wiring

Tools
- Assorted wrenches
- Tape measure
- Carpenter's square
- Level (4ft minimum recommended)
- Lifting device (fork lift, hoist, crane)

- Lifting Straps
- 2 ladders or personnel lifts (tall enough to reach above the door head)
- Other tools as needed for the type of anchoring chosen

Materials
- Anchors appropriate for the type of wall the door and accessories are to be installed on-to. Albany Doors recommends through-bolting doors whenever possible.
- Wire as specified on the electrical schematic
- Electrical supplies needed to comply with all regulating body electrical codes and standards.

UNPACKING AND PREPARING

1. Inspect and unpack the components. Report any damage immediately to ASSA ABLOY at 877-925-2468. Refer to the serial number tag located on the right door column.
2. DO NOT cut the banding which holds the door in a roll until instructed to do so in a later procedure.
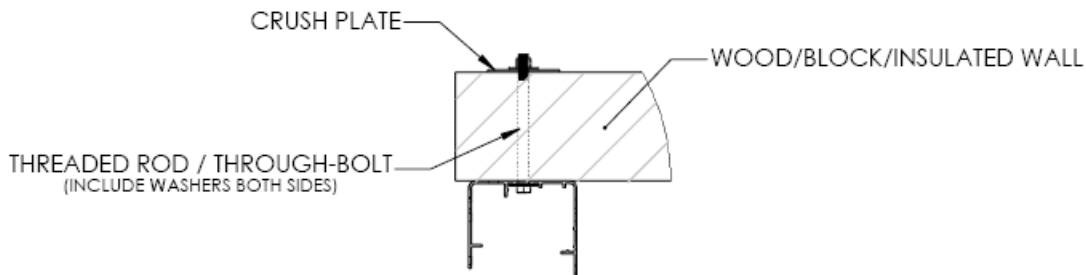
 CAUTION

The door panel and roll assembly could be damaged. Use evenly spaced padded supports to prevent rips, tears, or bending of the roll assembly. Failure to protect the roll assembly could result in damage to the door.
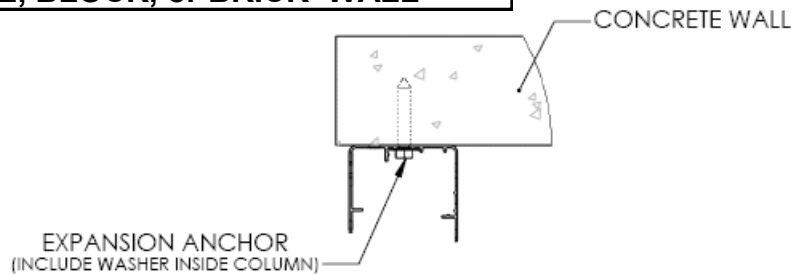
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WALL ANCHORING GUIDE

ASSA ABLOY does not supply hardware for mounting the door to the wall. Use proper hardware best suited for each particular door installation. Some examples are shown below. It is the responsibility of the door owner to ensure that the wall material is strong enough to support the forces of the door and all anchoring hardware. In general, ASSA ABLOY recommends through-bolting wherever possible using 1/2 inch diameter bolts/threaded-rods or 1/2 inch diameter concrete expansion anchors.
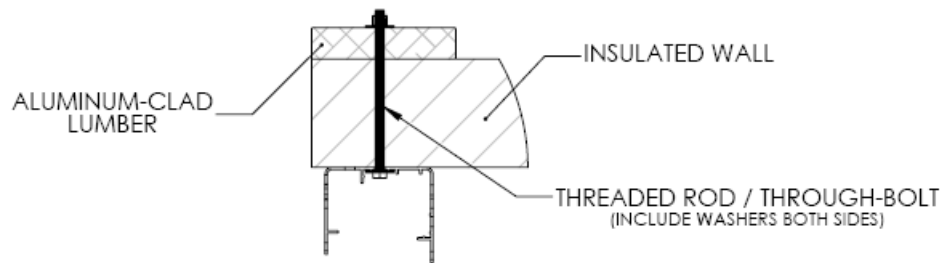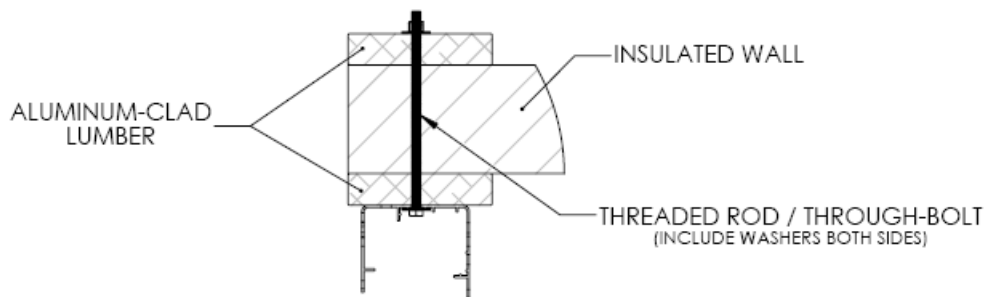
WOOD, BLOCK, BRICK, or INSULATED WALL

CRUSH PLATE

WOOD/BLOCK/INSULATED WALL

THREADED ROD / THROUGH-BOLT
(INCLUDE WASHERS BOTH SIDES)

CONCRETE, BLOCK, or BRICK WALL

CONCRETE WALL

EXPANSION ANCHOR
(INCLUDE WASHER INSIDE COLUMN)

INSULATED WALL

ALUMINUM-CLAD
LUMBER

INSULATED WALL

THREADED ROD / THROUGH-BOLT
(INCLUDE WASHERS BOTH SIDES)

INSULATED WALL

ALUMINUM-CLAD
LUMBER

INSULATED WALL

THREADED ROD / THROUGH-BOLT
(INCLUDE WASHERS BOTH SIDES)
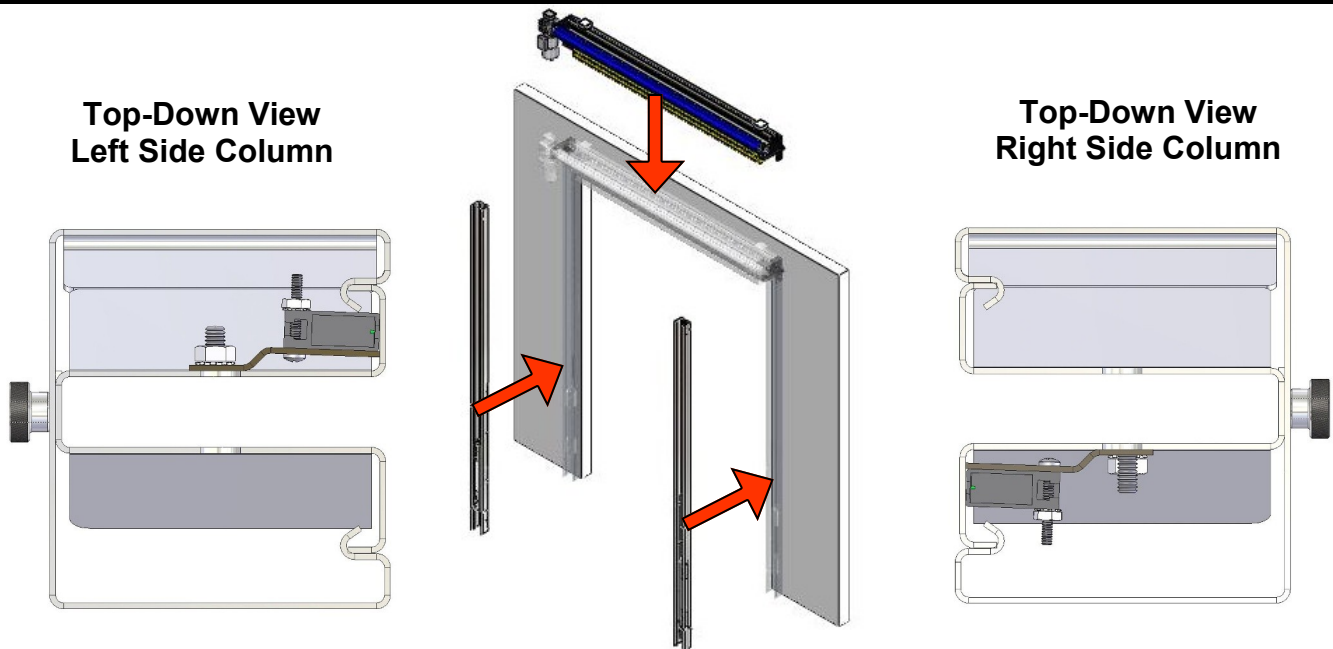
INSTALLATION REFERENCE MARKS

1. Measure from the inside of the left door jamb to the inside of the right door jamb and place a mark on the floor on the door opening centerline.

2. Reference the door's documentation and place two marks on the floor at

$$\frac{DoorWidth}{2}$$

to the left and to the right of the door opening centerline.

3. Measure the distance between the two new marks. The correct distance should be equal to the ordered door width.

$$\frac{DoorWidth}{2}$$

$$\frac{DoorWidth}{2}$$

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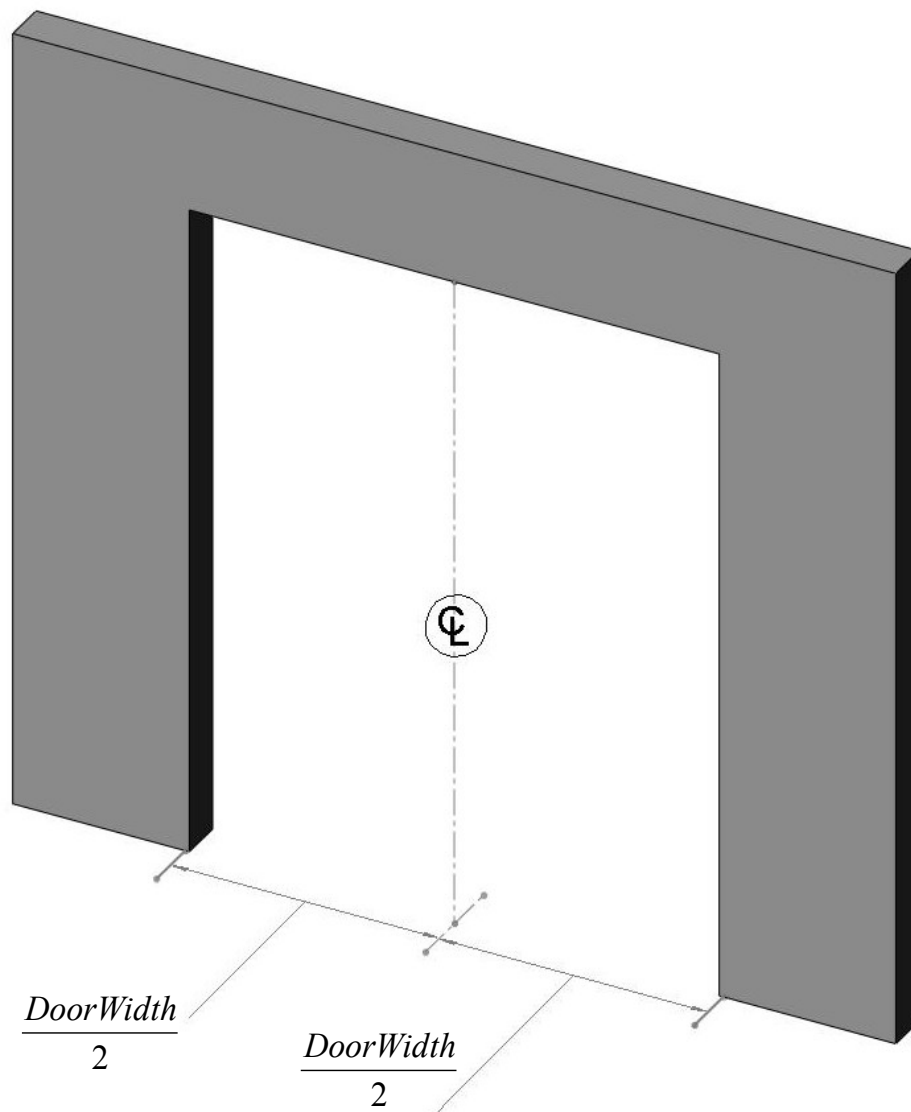
MOUNTING THE DOOR ASSEMBLY

**Top-Down View
Left Side Column**

**Top-Down View
Right Side Column**

ASSEMBLE ON WALL

1. Hold the left side column in place against the wall. Align the base with the marking placed on the floor earlier and bring the column into plumb.
2. Mark the locations of the mounting holes. Prepare the holes and anchor as needed.
3. Loosely install the anchors, recheck for plumb, and tighten the anchors.
4. Repeat steps 1-3 for the right side column.
5. Lay the head assembly on its back on the floor in front of the door opening. Using a safe lifting device, carefully lift the head assembly up into position above the side columns.
7. Position the drum assembly in front of the side columns with the drum shafts in line with the mounting brackets on the side columns and carefully set it into place.
8. Install the two 1/2" flat washers, lock washers, and 1/2"x1" bolts on each bearing on each side of the head assembly to secure it in place.
9. The photo safety cables are marked and bundled on top of the head assembly at the junction box. Route the light curtain cables through the rear of the side column. Note that the wire will enter the top opening of the left side column, while the right side column utilizes a hole in the side of the column.

⚠ CAUTION

The drum assembly is heavy. Use proper lifting devices and techniques to securely and safely lift the drum assembly. Failure to properly secure the drum assembly could result in death or serious injury.

CAUTION

The drum assembly must be lifted level (balanced) and with the motor hanging straight down. Failure to properly position the drum assembly could result in damage to the mounting brackets and/or the side columns.

10. Plug the wires into the appropriate photo device mounted in the column—**note the matching cable markings**. For light curtains, the transmitter will be on the right side and the receiver will be on the left. Ensure that all loose slack in the cables is removed.

11. Set the inner side columns into the outer side columns. If the door was ordered with photo eyes, position the front photo eye mounting brackets against the outside of the side columns and secure them with two self-tapping stainless steel sheet metal screws. Install the knurled hand knobs on the remaining studs protruding through the outside faces of the side columns.

12. Connect the remaining safety cables to the photo safety devices mounted on the outside of the columns and rear side of the door if applicable—**note the matching cable markings**.

13. Install head seals as shown below.

14. Caulk header and door jambs to seal the opening when finished.

15. See the applicable electrical manual for wiring and startup instructions that was included with the door.
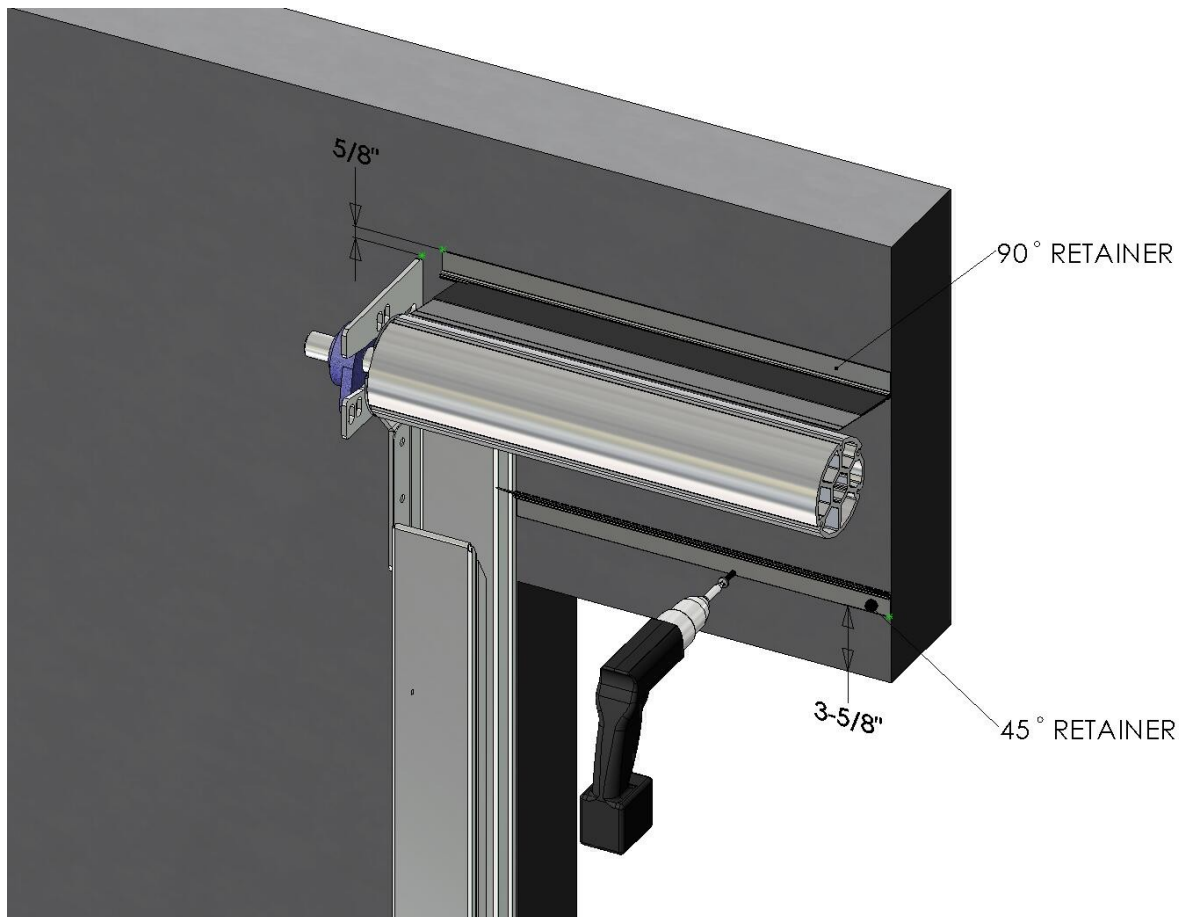
Installing Manual Hoist Brake Release—Optional equipment

Doors equipped with a manual chain hoist will require the installation of a mechanical brake release rod that when actuated will pull down on the manual brake release rod of the motor so that hoisting the door can be performed without having to drive thru the brake of the motor.

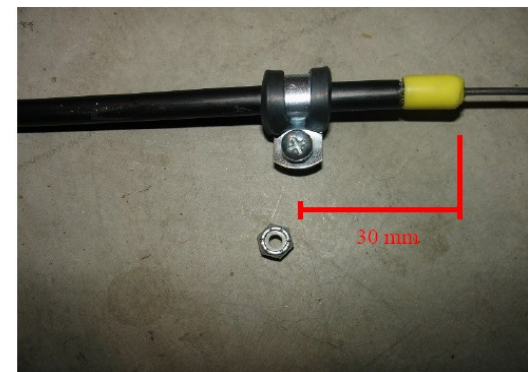Install the 'Z' bracket to chain hoist housing.

Use the nut and bolt to secure bracket to housing.

Locate the brake release cable, hose clamp, one 8-32x1/2" bolt and 8-32 Nyloc nut.

Install hose clamp to brake release cable. Place hose clamp approximately 30mm away from end of cable sheath.
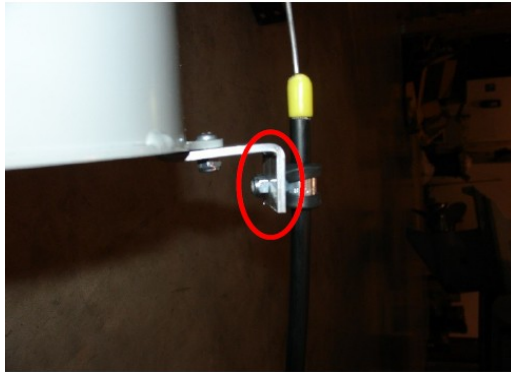
Install 8-32x1/2" bolt into the hose clamp

30 mm

Place exposed end of brake release cable through the thru-hole on brake release arm.

Install brake release cable assembly to the 'Z' bracket.

Fasten the 8-32 nut to bolt to secure hose clamp to 'Z' bracket.

T-handle must be in the fully retracted position during the install and mounting process.

Verify the brake release arm is in the 'Disengaged' or upper position.

Install cable clamp to the exposed end of brake release cable and tighten the two nuts to secure clamp.
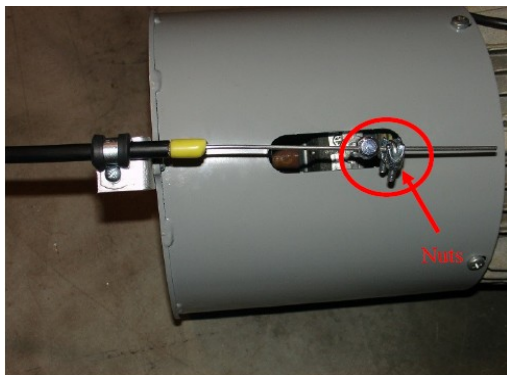
The T-handle mounting bracket can now be wall mount to desired height. Once mounted you will need to verify the functionality of the brake release cable along with the functioning of the manual hoist. If the release rod is working properly the hoist should require little effort to operate. Improper adjustment of the brake release will allow the brake to drag during the hoisting of the door.

⚠ **WARNING**

It is imperative that you verify the electrical interlock function of the hoist. When the hoist is engaged (red handle pulled down) the hoist disengagement switch will open and if properly connected to the control will act as a stop input function disabling the control from operating the door electrically. The control system should not be able to electrically function the door while the hoist is engaged. Refer to the schematics supplied with the door for hoist interlock switch wiring.
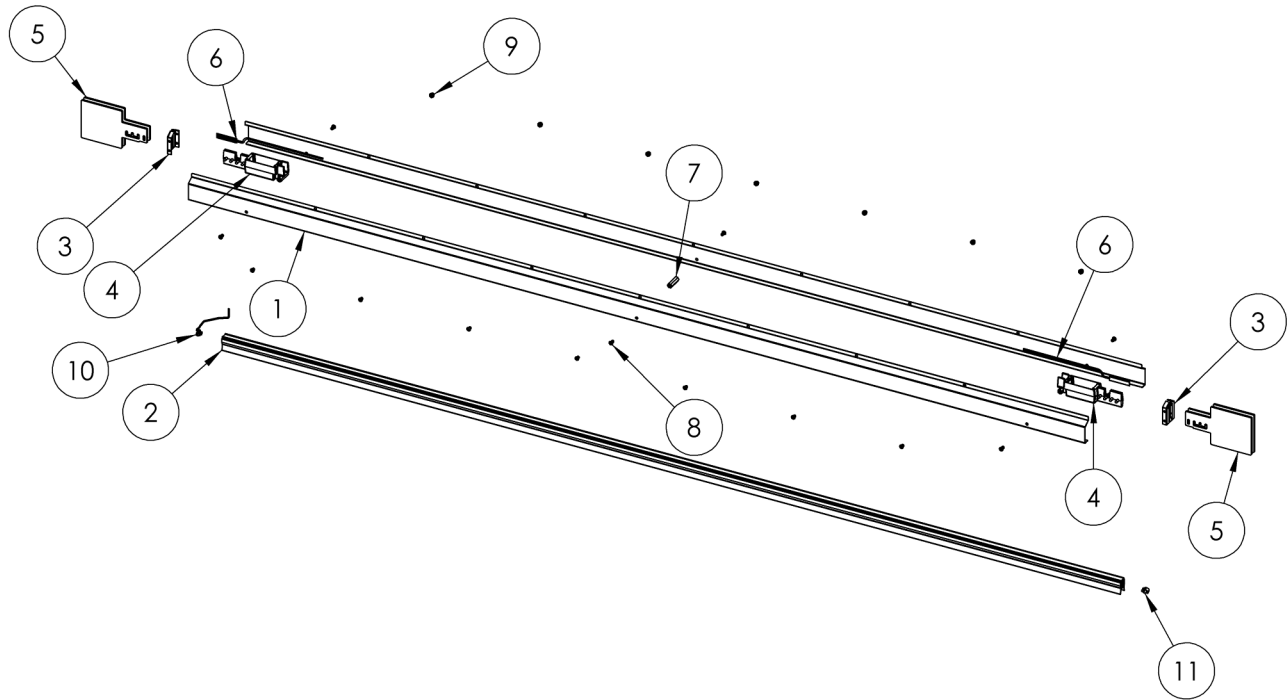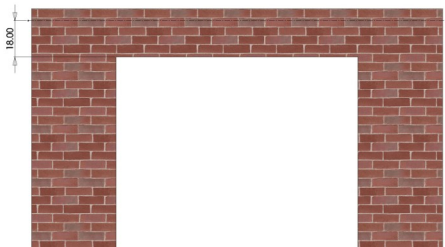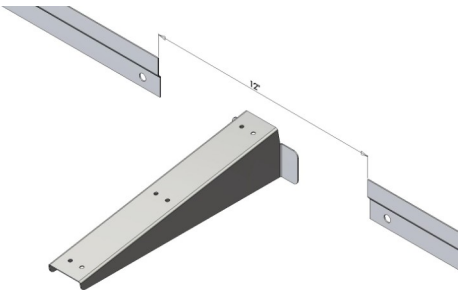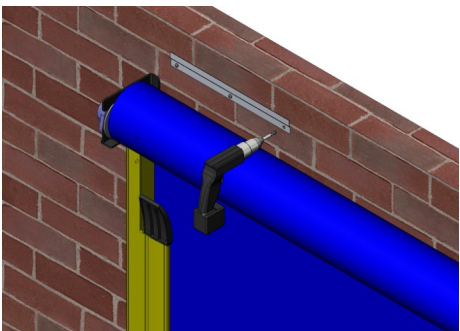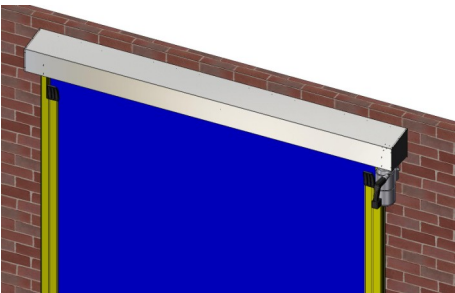
ITEM NO.	PART NUMBER	DESCRIPTION
1	001114	BOTTOM BAR HALF
2	001120	REVERSING EDGE WITH FINS ASN
3	001115	BOTTOM BAR END CAP SS
4	CONSULT FACTORY	BLOCK, ENDCAP, BOTTOM BAR, RF
5	001124	BREAKAWAY TAB SS BOTTOM BAR
6	000967	3.5" BREAKAWAY SWITCH LOW SENSITIVITY
7	001122	THREADED SPACER 1/4"-20 X 1.75" HEX SS
8	001123	SOCKET BUTTON HEAD SCREW 1/4"-20 X 1/2" SS
9	001121	ACORN CROWN NUT 1/4"-20 SS
10	001005	PLUG, SAFETY EDGE WITH CABLE
11	001292	PLUG, SAFETY EDGE, 8.2K

LEFT SIDE

RIGHT SIDE

OPTIONAL
SAFETY
PHOTO EYE
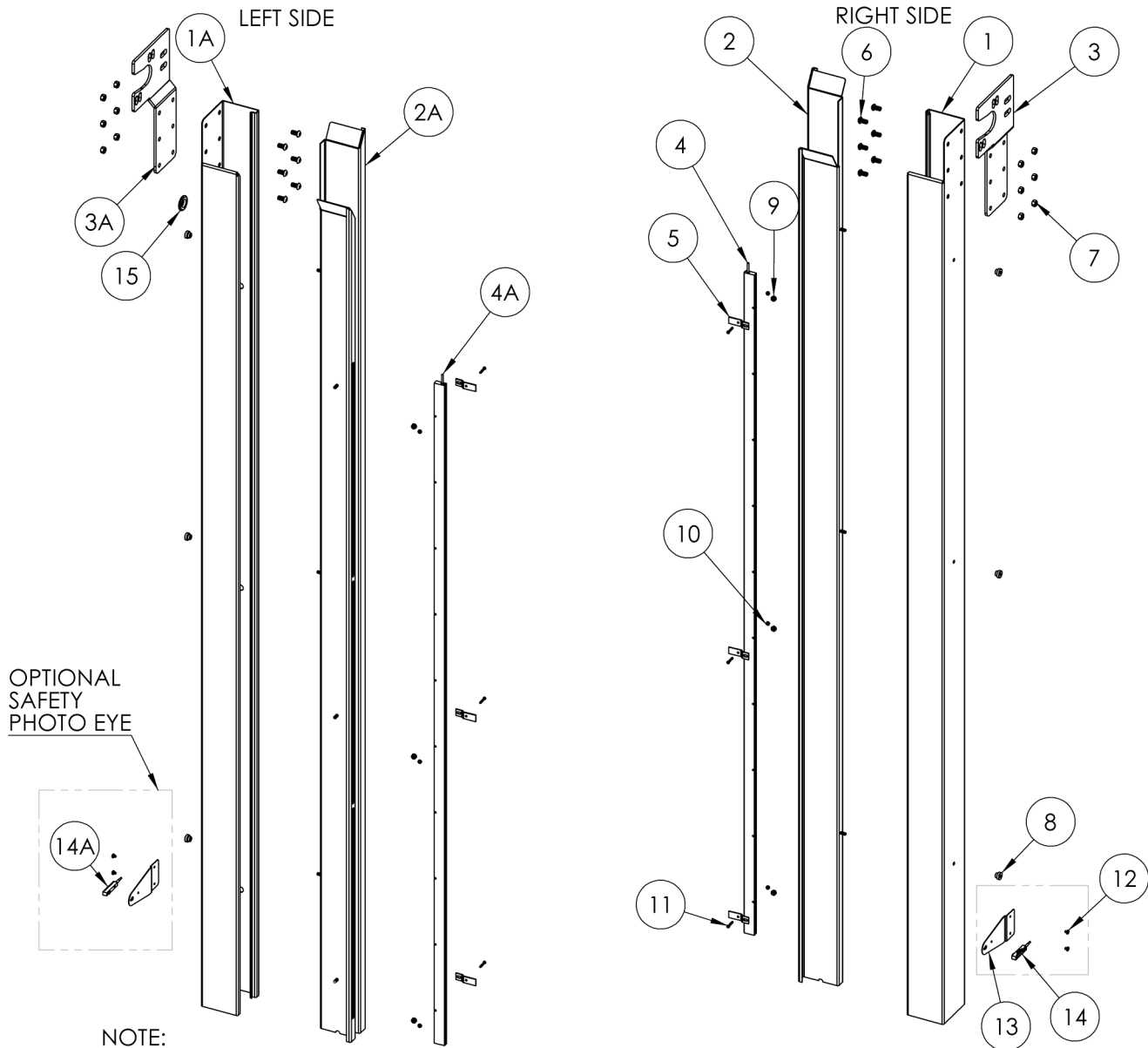
NOTE:
LEFT SIDE COMPONENTS ARE THE SAME AS RIGHT UNLESS SPECIFIED.

ITEM NO.	PART NUMBER	DESCRIPTION
1	001109	OUTER SIDE COLUMN RIGHT
1A	001107	OUTER SIDE COLUMN LEFT
2	001108	INNER SIDE COLUMN RIGHT SS
2A	001106	INNER SIDE COLUMN LEFT SS
3	001111	CORNER BRACKET RIGHT SS
3A	001110	CORNER BRACKET LEFT SS
4	001198	LIGHT CURTAIN SG-14 HIGH GAIN TRANSMITTER M12
4A	001199	LIGHT CURTAIN SG-14 HIGH GAIN RECEIVER M12
5	001369	SS LIGHT CURTAIN BRACKET
6	000412	SCREW BH 3/8 - 16 X 3/4" 18.8 SS
7	000256	NUT HEX NYLOCK 3/8 - 16
8	001116	KNURLED KNOB 1/4"-20 SS
9	000423	NUT KEPS 1/4 - 20 18.8 SS
10	000405	NUT KEPS 6 - 32 18.8 SS
11	000419	SCREW PH PAN # 6 X 1" 18.8 SS
12	000403	SCREW TEKS HEW WASHER #12 X 3/4"
13	001211	PHOTO EYE FRONT BRACKET SS
14	CONSULT FACTORY	PHOTO EYE TRANSMITTER
14A	CONSULT FACTORY	PHOTO EYE RECEIVER
15	001465	GROMMET .875" I.D.

Hood Mounting Instructions

	Mark a level horizontal line on the wall 18" above door opening.
	Space brackets evenly across door opening at marked height.
	Leave a 12" gap between Z-brackets near centerline of door.
	Permanently attach Z-brackets to wall placing the bottom of the brackets on the placement line.
	Assemble hood using self-threading screws as shown in the exploded views. Hang the hood assembly on the mounting brackets and secure

Periodic Maintenance

ASSA ABLOY high speed doors are engineered for low maintenance operation. The door should be visually inspected daily for wear and tear, and operated to verify functions. Quarterly maintenance should be performed to clean components and to check all safety functions and check for mechanical and electrical integrity.

Daily Inspection

1. Inspect the door fabric for wear or damage.

2. Operate the door through several openings and closings. Verify that the door seats against the floor and that the door fabric remains tight and does not wrinkle. Verify that the door opens fully, slightly beyond the wall opening, and does not open too far.

   - If the door does not seat against the floor properly or opens to the wrong position, refer to "Setting Door Limit Adjustments".

   - If the door fabric has diagonal wrinkles the door fabric roll at the top of the door is not level and perpendicular to the side rails. Leveling adjustments should be made as soon as possible to prevent wear or damage. Refer to the installation instructions or contact Albany Door Systems.

3. With the door closing, place an object through the light curtain, or photoeyes, on each side of the door. Verify that the door stops immediately.

4. If a multiple panel door is installed, check at each end of the ribs to verify that they are in place and centered.

5. Inspect the coiled electrical wire for wear or damage if equipped.

6. Check the light curtain slots for dirt or dust accumulation and clean as necessary.

7. While the door is closing, tap the bottom of the door edge wand verify that the door stops and reverses to a fully open position.

⚠ CAUTION

Do not stand under the door when performing the following inspection. If the bottom bar reversing switch is not functioning correctly injury can occur.

8. Perform daily inspection.

9. Check all mounting hardware and verify that all nuts and bolts are tight. Hardware includes: wall anchors, cover hardware, motor mounting hardware, and bearing bolt nuts.

10. Check the break away function by performing the following steps:

    - Stop the door so the bottom rail is between waist and chest high.

    - Push the bottom bar out of one of the side columns.

    - Press the open key pad and verify that the door opens to the break away opening height and that the bottom bar centers in the side rails.

    - Press the close key pad and verify that the bottom rail is centered and the door closes fully.

11. Inspect all side and top weather seals for wear or damage.
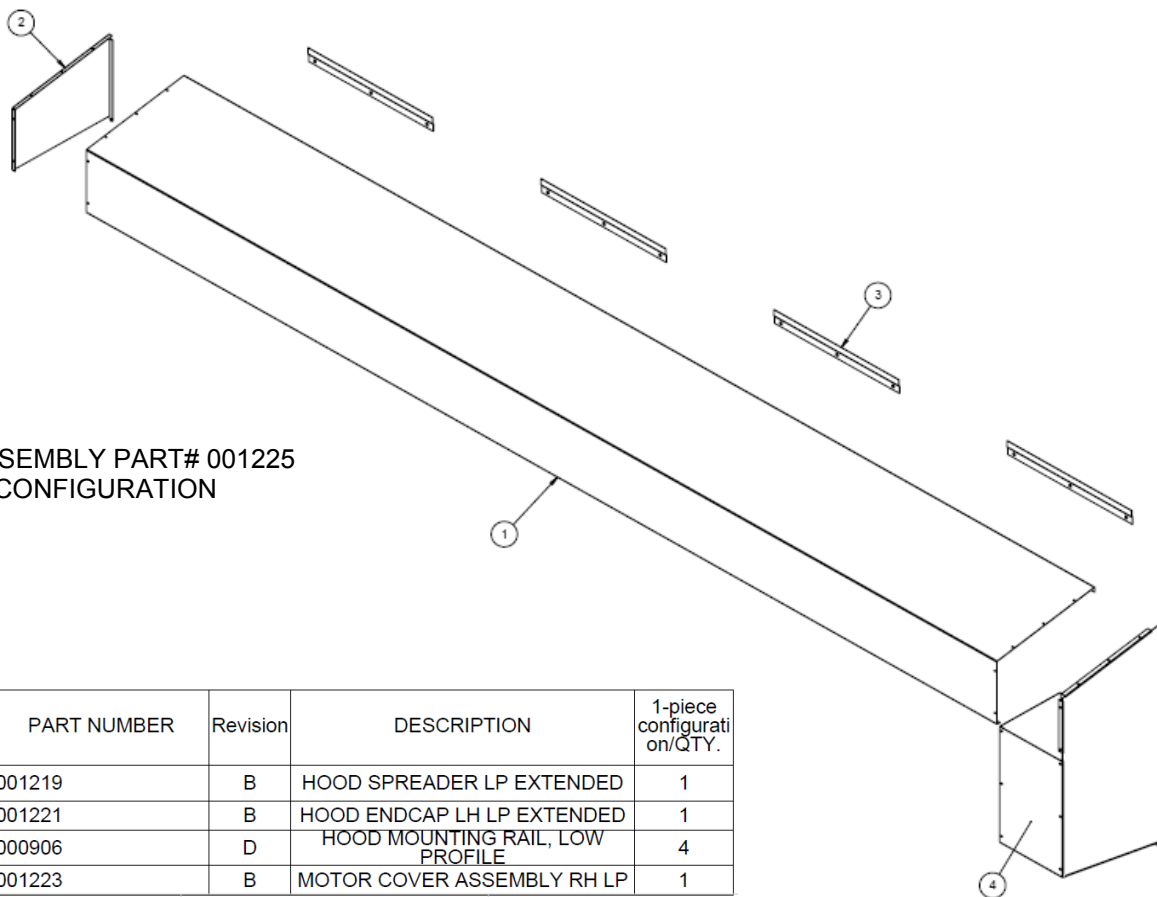
HOOD ASSEMBLY PART# 001225
1-PIECE CONFIGURATION

ITEM NO.	PART NUMBER	Revision	DESCRIPTION	1-piece configuration/QTY.
1	001219	B	HOOD SPREADER LP EXTENDED	1
2	001221	B	HOOD ENDCAP LH LP EXTENDED	1
3	000906	D	HOOD MOUNTING RAIL, LOW PROFILE	4
4	001223	B	MOTOR COVER ASSEMBLY RH LP	1
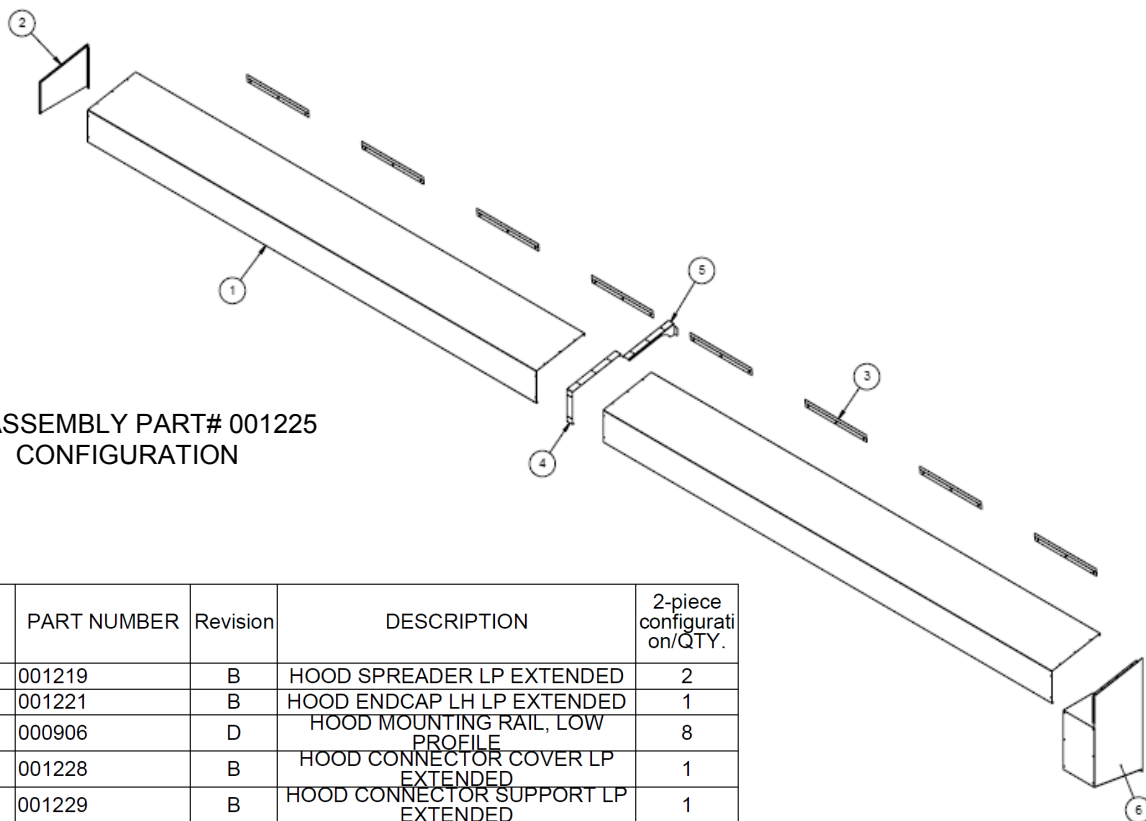
HOOD ASSEMBLY PART# 001225
2-PIECE CONFIGURATION

ITEM NO.	PART NUMBER	Revision	DESCRIPTION	2-piece configuration/QTY.
1	001219	B	HOOD SPREADER LP EXTENDED	2
2	001221	B	HOOD ENDCAP LH LP EXTENDED	1
3	000906	D	HOOD MOUNTING RAIL, LOW PROFILE	8
4	001228	B	HOOD CONNECTOR COVER LP EXTENDED	1
5	001229	B	HOOD CONNECTOR SUPPORT LP EXTENDED	1
6	001223	B	MOTOR COVER ASSEMBLY RH LP	1

Installation Checklist

Please fill out below and return to ASSA ABLOY Entrance Systems

Customer: _____   **Installation Date(s):** _____

Location: _____   **Door Serial #('s):** _____

Contact: _____   **Contact Phone #:** _____

Install Company: _____   **Contact & Phone #:** _____

Mechanical Installation (All Doors):   <u>Yes</u>   <u>No</u>

- Is the door secured to the wall using thru-bolts?   _____ _____

  - If No, what type of anchors were used? _____

- Is the door roll level?   _____ _____

- Are the side columns plumb?   _____ _____

- Is the door caulked or sealed to the wall?   _____ _____

- Are there any visible gaps between the door and the wall?   _____ _____

  - If "No" the above, did the customer contact approve of door to wall seal?   _____ _____

- Is there any visible damage to the door?   _____ _____

  - If Yes, what is the damage: _____

  - Was Albany Customer Service notified of the damage?   _____ _____

  - Was the customer contact notified of the damage?   _____ _____

Electrical Installation: <u>Yes</u>   <u>No</u>

- Were the factory supplied cables (motor, encoder & 7 – wire) cables long enough?   _____ _____

  - If No, which cables were too short? _____

  - If No, was Albany Customer Support contacted and new cables sent?   _____ _____

- Were the schematics easy to read for electrical hook-up?   _____ _____

- What type of conduit was used to route the cables to the door? _____

- Is the conduit routed to the bottom of the control box?   _____ _____

  - If "No" did the customer approve this?   _____ _____

  - If "No," why? _____

  - If "Yes," who was the customer contact that approved? _____

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Door Start-up	**Yes**	**No**
• Was the door start-up procedure easy to follow?	_____	_____

     • If No, what problem(s) did you run into? _____

     _____

     _____

	Yes	**No**
• Was Albany Customer Support Dept. notified of these issues?	_____	_____
• Is the Reversing Edge working?	_____	_____
• Are the front and rear light curtains (or photo-eyes) working?	_____	_____
• Do the bottom bar breakaway switches work?	_____	_____
• Does the door's self-repair feature work when the door is broken away?	_____	_____
• If the door has counterweights, does the egress work?	_____	_____

Activation

• What type of activation is being used? _____

	Yes	**No**
• Was the activation supplied by Albany?	_____	_____
• Did the customer approve of the mounting and operation of the activators?	_____	_____

Comments

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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