



INSTALLATION INSTRUCTIONS SIDE COILING FIRE & SMOKE RATED DOORS WITH INTEGRAL EGRESS DOORS MODELS S9000 & S9500

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INSPECTION OF MATERIALS

Upon receipt of shipment – immediately check that you have received the correct number of pieces, and that the entire shipment is intact and complete. Any damage or shortages should be noted on the freight carrier's bill of lading before signing and accepting the shipment.

Should damage or shortages be found after the shipment has been accepted notify the delivering carrier at once and confirm such notification to them in writing.

Call McKeon Door Company's Customer Service Department for the cost to replace/repair the items in question and submit this information in writing to the carrier. This forms the basis for the required freight claim.

All shipments are made F.O.B. factory, freight allowed, and it is the purchaser's responsibility to file all freight claims. McKeon Door Company will provide any necessary backup paperwork to substantiate your freight claim, but McKeon Door Company cannot file these claims for you, as ownership for the shipment determines who can and must file the freight claim.

Before beginning installation – read the Safety Summary Sheet, As-Built Shop Drawings and these Installation Instructions thoroughly. If you have any questions or concerns please contact our Technical Support Department at 800-266-9392.

INSTALLATION PROCEEDURE

STEP 1 – A Typical Side Coiling Fire Door with Integral Egress Door(s) Will Include The Following Components

- a) Door curtain, consisting of a series of slats assembled together with two (2) counterbalance assemblies already installed in a predetermined coil box assembly.
- b) Model S9000 will include one (1) egress door and frame assembly.
- c) Model S9500 will include two (2) egress doorS and frame assemblies.
- d) Head track assembly of length and configuration as indicated o the As-built shop drawings.
- e) Floor track assembly including removable cover plates of length and configuration as indicated on the As-built shop drawings (optional).
- f) Mounting hardware box.



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- g) Coil box cover panels (if required).
- h) Receiving edge channel.
- i) Motor operator drive assembly already installed onto coil box assembly.

WARNING!

Side coiling fire doors contain two (2) counterbalance assemblies which are both pre-charged from the factory with very high amounts of captured spring force.

1. Tension retaining pin #1 must never be removed (refer to figure 1).
2. Tension retaining pin #2 must not be removed prior to power and central alarm system connection to fire door motor operator and must be removed prior to any operation of the door. For units with operators less than 1-1/2hp, tension retaining pin #2 is located on tension wheel #2 (can be located on either the coil barrel assembly or the pusher barrel assembly) as shown in figure 1 below. Units with operators of 1-1/2hp or greater, tension retaining pin #2 is located on the motor end of the operator and is clearly marked "Warning: Use only during installation. Must remove when powering up."

IMPORTANT NOTE: Not following this procedure as stated above can result in serious injury and / or damage to the door.

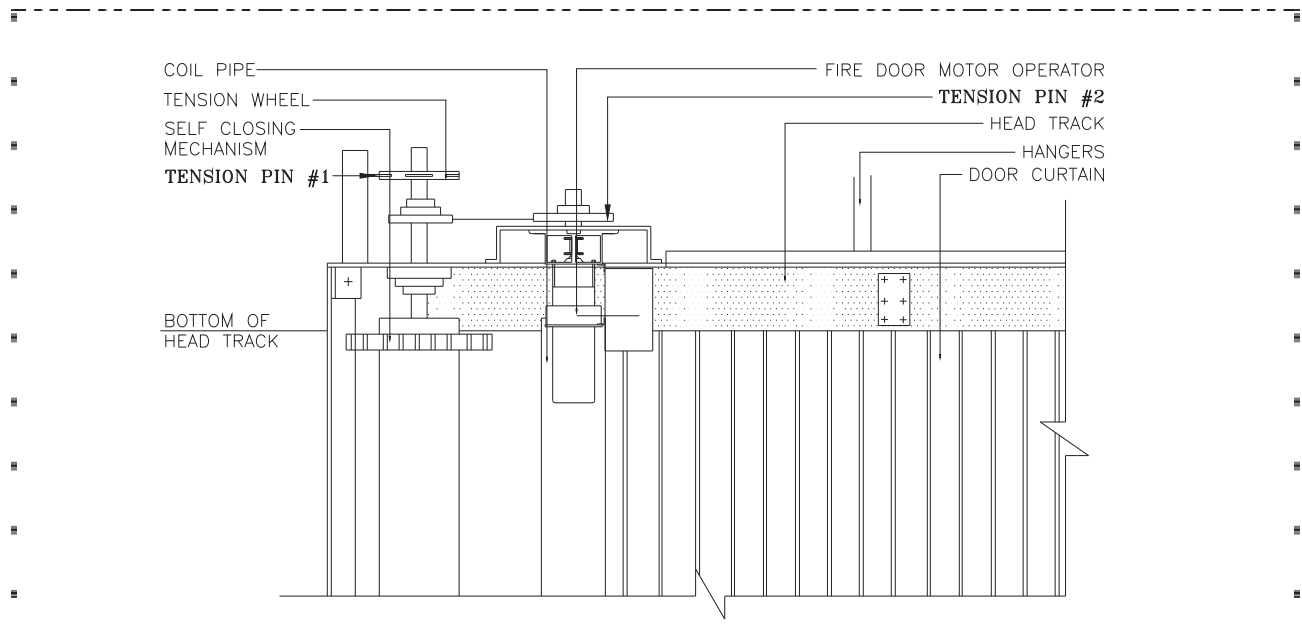


FIGURE 1



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STEP 2 – Placement and Installation of Coil Box Assembly (Refer To Figures 2 & 3)

- a) Verify that the coil box pit has the correct penetration into the floor, is of the correct size and orientation in accordance with the As-built shop drawings.
- b) Carefully raise and place the coil box assembly into the floor pit.
- c) Using the bottom plate leveling bolts raise the coil box so that it stands flat in the coil box pit and is perfectly level.

NOTE: Coil box assemblies are very heavy and may not have a symmetrical center of gravity, Coil box assembly must be moved very carefully.

- d) In some cases depending on you project requirements the coil box assembly may be equipped with supporting clip angles for extra support to the adjacent construction (refer to As-Built Shop Drawing). If your coil box assembly was provided with supporting clip angles install them now.
- e) Make sure that coil box is completely supported before removal of any hoisting or supporting equipment that was used.

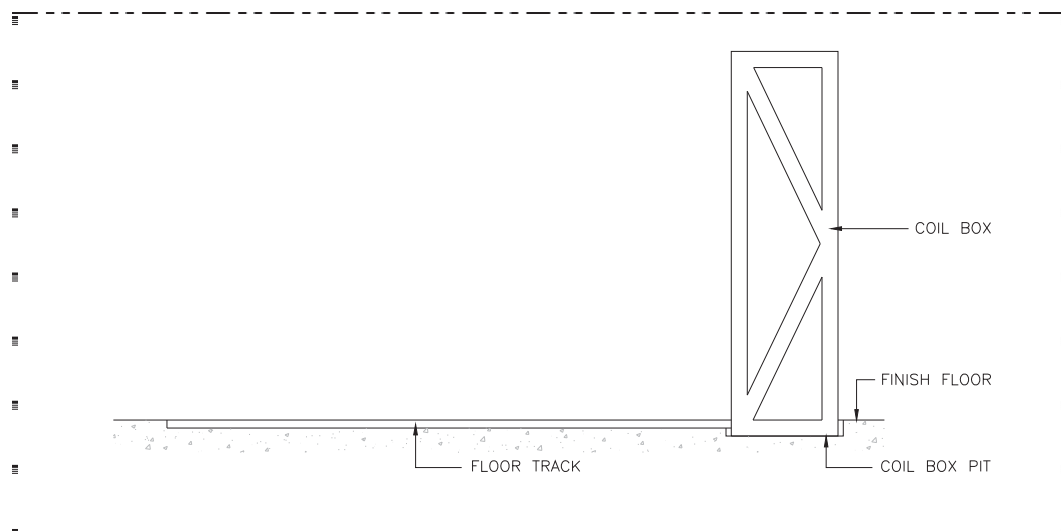


FIGURE 2 – with a floor track assembly



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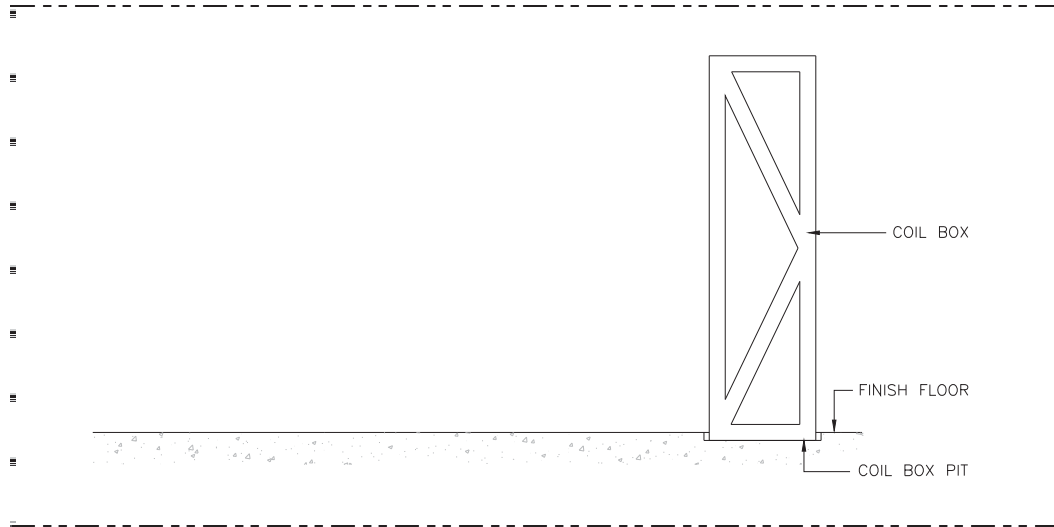


FIGURE 3 – without a floor track assembly

STEP 3 – Installation & Mounting of the Pocket Head Track Section

- Determine the correct height for the pocket head track section as noted on the as-built shop drawings and make sure that dimension matches the current height dimension of the internal head track located inside the coil box assembly.
- If the tip of floor track to tip of head track or the finish floor to tip of head track dimension does not match that which is noted on the as-built shop drawings or that which is required you may need to either raise or lower the coil box assembly.
- If required install pocket head track mounting clips or rods and hardware as required to the existing head track support structure.
- Carefully raise pocket head track assembly into position and secure to the existing overhead structural support.
- Align and secure pocket head track assembly with the internal head track which is located inside the coil box assembly and make sure that the pocket head track assembly is level and true in accordance with the height requirement as noted in the as-built shop drawings.

NOTE: Misalignment of these tracks will cause the door to jam at the point where the door's internal head track and pocket head track meet.



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STEP 4 – Installation of Pocket Side Floor Track Assembly (Optional Component Refer To As-Built Shop Drawings)

- a) Verify that the floor track trench has the correct penetration into the floor, is of the correct size and configuration in accordance with the as-built shop drawings.
- b) Carefully place the floor track assembly into the pocket side floor track trench.
- c) Using shims level the floor track assembly so that it sits flat in the floor track trench and is perfectly level in both directions.
- d) Align and secure the pocket floor track with the internal floor track assembly which is located inside the coil box Assembly.
- e) Secure floor track in place and prep for grouting after the door has been fully installed and tested.

NOTE: Misalignment of these tracks will cause the door to jam at the point where the door's internal floor track and opening floor track meet.

- f) Secure the pocket floor track in place and prep for grouting after the door has been fully installed and tested.
- g) Check and verify overall dimensions in accordance with the as-built shop drawings, Pay special attention to the tip the tip of floor track to tip of head track dimension as this dimension must be exactly as shown and indicated in the as-built shop drawings. Please take note that these dimensions are not adjustable.

STEP 5 – Installation of Egress Door Frame(s) Assembly

- a) From the opening side of the pocket area, slowly slide each frame assembly into track(s) assembly by inserting the top roller assemblies which are located at the top of each frame into the head track (refer to as-built shop drawings). If your door is supplied with the optional floor track make sure the floor pins are also inserted into the floor track assembly.
- b) Attach each frame to the curtain front slat with the hardware which was provided.
- c) Install egress door(s) into the frame assembly.

STEP 6 – Installation of the Opening Head Track Assembly (Refer To Figures 4 & 5)

- f) Determine the correct height for the head track as noted on the as-built shop drawings and make sure that dimension matches the current height dimension of the internal head track located inside the coil box assembly.



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- g) If the tip of floor track to tip of head track or the finish floor to tip of head track dimension does not match that which is noted on the as-built shop drawings or that which is required you may need to either raise or lower the coil box assembly.
- h) If required install head track mounting clips or rods and hardware as required to the existing head track support structure.
- i) Carefully raise head track assembly into position and secure to the existing overhead structural support.
- j) Align and secure opening head track assembly with the pocket head track and make sure that the opening head track assembly is level and true in accordance with the height requirement as noted in the as-built shop drawings.

NOTE: Misalignment of these tracks will cause the door to jam at the point where the door's opening head track and pocket head track meet.

- f) Check and verify overall dimensions in accordance with the as-built shop drawings, Pay special attention to the tip the tip of floor track to tip of head track dimension and the finish floor to tip of head track dimension as they must be exactly as shown and indicated in the as-built shop drawings. Please take note that these dimensions are not adjustable.

STEP 7 – Installation of Opening Floor Track Assembly
Optional Component Refer To As-Built Shop Drawings (Refer to Figures 2 & 5)

- a) Verify that the floor track trench has the correct penetration into the floor, is of the correct size and configuration in accordance with the as-built shop drawings.
- b) Carefully place the floor track assembly into the floor track trench.
- c) Using shims level the floor track assembly so that it sits flat in the floor track trench and is perfectly level in both directions.
- d) Align and secure the floor track assembly with the pocket floor track.

NOTE: Misalignment of these tracks will cause the door to jam at the point where the door's opening floor track and pocket floor track meet.

- e) Secure floor track in place and prep for grouting after the door has been fully installed and tested.
- f) Check and verify overall dimensions in accordance with the as-built shop drawings, Pay special attention to the tip the tip of floor track to tip of head track dimension as this dimension must be exactly as shown and indicated in the as-built shop drawings. Please take note that these dimensions are not adjustable.



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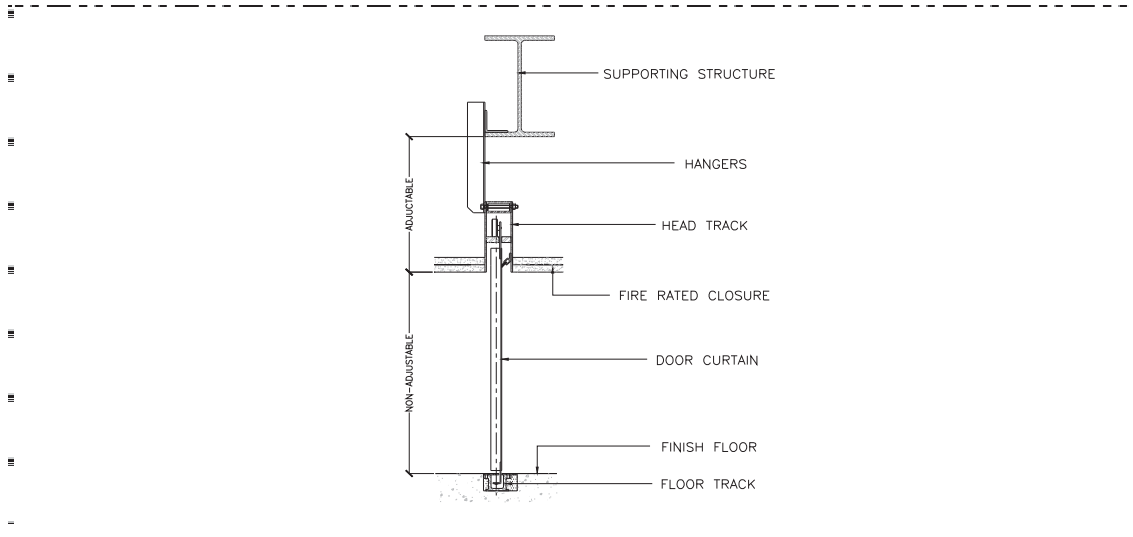


FIGURE 4 – with a floor track assembly

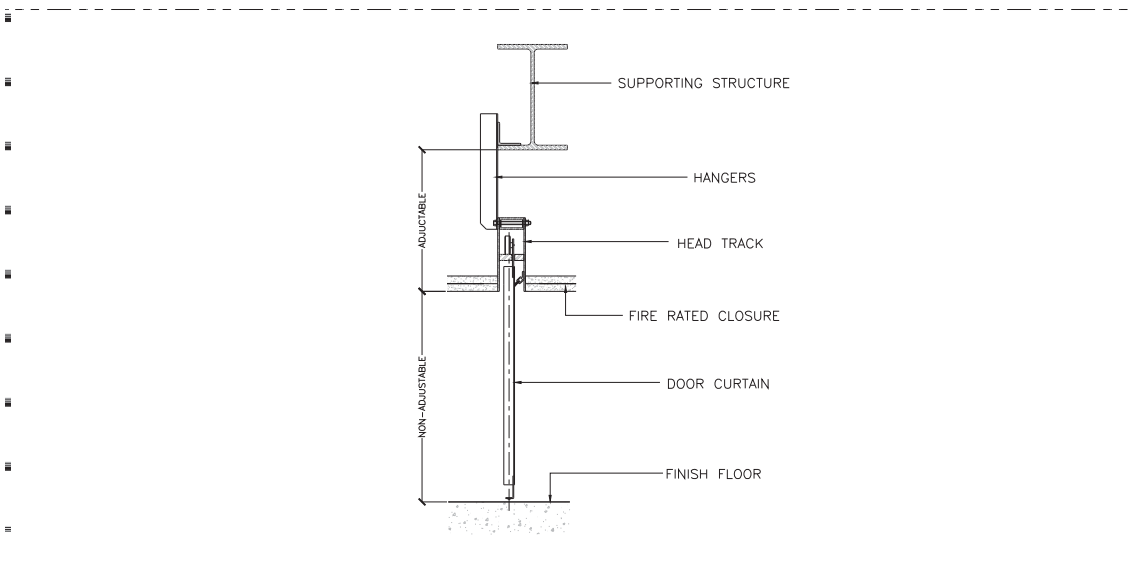


FIGURE 5 – without a floor track assembly

STEP 8 – Installation of Receiving Channel (Refer to Figure 6)

- Position receiving channel upright, straight and plumb at the location as indicated in the as-built shop drawings.
- Make sure that the receiving channel level and square with the head track assembly and if applicable with the floor track assembly prior to securing it in place.



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- c) Be sure that the receiving channel is in the aligned position to receive the leading edge when the door is in the completely closed position.
- d) Secure the receiving channel by bolting it directly to existing structural support member.

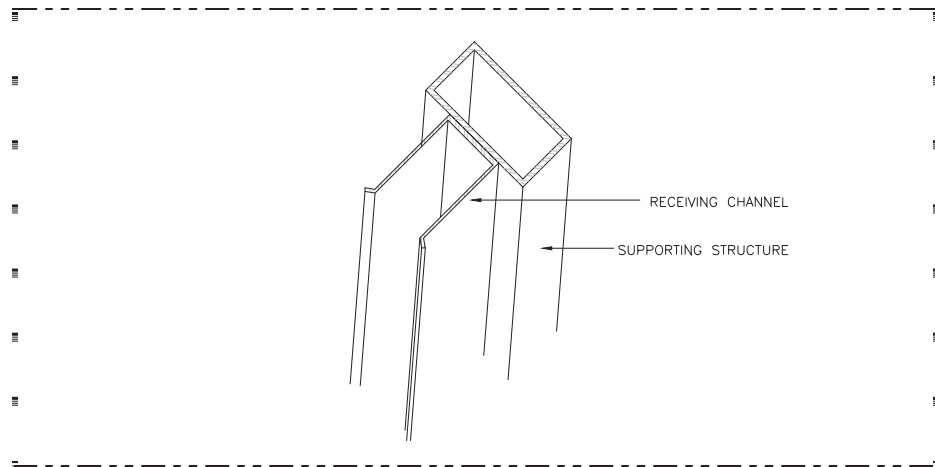


FIGURE 6

STEP 9 – Installation of Coil Box Covers

- a) Install coil box end covers by using the screws that were provided in the hardware package.
- b) Secure and screw strictly around the perimeter of each flat cover directly to the perimeter of the coil box frame.

STEP 10 – Wiring of Motor Operator (Refer To Wiring Diagram Inside Control Panel)

- a) Connect line voltage to the proper terminals in accordance with the instructions noted on the wiring diagram.

NOTE: Line voltage and phase must match that which is indicated on the As-built shop drawings and that which is indicated on the wiring diagram.
- b) Determine location of key switch control station as directed by the owner architect or authority having jurisdiction and mount control station accordingly.
- c) Run wiring from motor operator to the control station and connect wiring in accordance with the instructions noted on the wiring diagram.
- d) Connect fire alarm to the proper terminals as noted on the wiring diagram.



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NOTE: Fire alarm voltage and current must match that which is indicated on the As-built shop drawings.

IMPORTANT NOTE: After connection and activation of the line voltage and the fire alarm has been made to the motor operator make sure to remove tension pin #2 prior to attempting any operation of the door. **Tension pin #2 must be removed prior to any operation of the door (refer to Step 1).** Operating the door prior to removing tension pin #2 will result in damage to the door and/or possible serious injury to personnel.

STEP 11 – Testing & Final Adjustments

- a) Check and make sure that the correct required line voltage and phase has been connected to door's motor operator.
- b) Check and make sure that the correct required fire alarm/smoke detector voltage and current has been connected to door's motor operator alarm terminal strip.
- c) Check and make sure that the control station has been correctly wired to door's motor operator terminal strip.
- d) Prior to attempting to operate the door make sure set and adjust open and closed limit switches in accordance with the limit switch setting instructions located in the motor operator's owners manual.
- e) Prior to attempting to operate the door make sure you tension pin #2 has been removed.
- f) Activate the control station to check the closing and opening cycles to assure of the door's smooth normal operation.
- g) Check the door's self closing operation by activating the fire alarm/smoke detector.