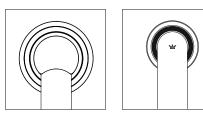


INSTALLATION INSTRUCTIONS

PRODUCT: BALDUR + ODEN

CONFIGURATION: SINGLE DOOR MOUNT: FACE MOUNT



Product is covered by U.S. patents. For more information visit www.krownlab.com

Ι. TOOLS + MATERIALS REQUIRED

TOOLS

- Tape measure
- Imperial allen wrench kit
- Level
- Ratchet with 1/4", 3/8" and 1/2" sockets
- Torque wrench capable of measuring 110inlbs(9.5ftlbs)
- #2 Philips screw driver Power drill
- One or more of the following drill bits depending on product configuration:
 - -13/64" metal drill bit for multiple-track systems -15/64" for soft wood blocking -1/4" drill for hard wood blocking -1/4" drill for wood door -1/2" drill for wood door

-Countersink drill for wood door

TOOLS FOR DRILLING AND CUTTING TRACK

• Miter saw and carbide toothed blade

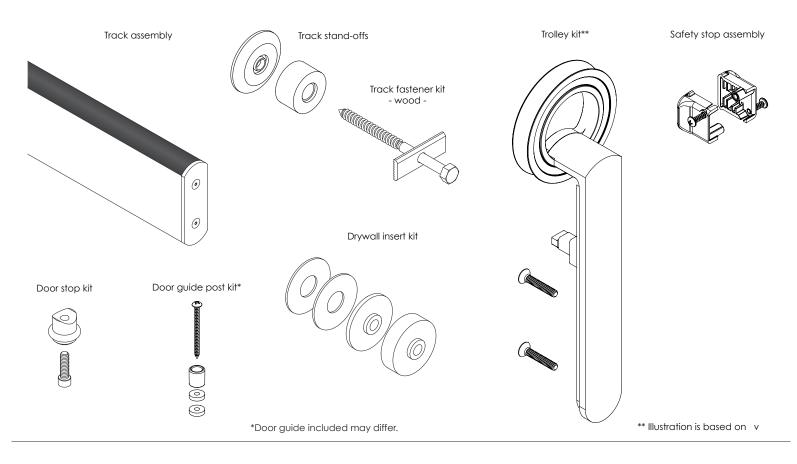
• 1/2" to 11/16" metal drill bit (11/16" holes provide full 1/4" adjustment in any direction)

MATERIALS

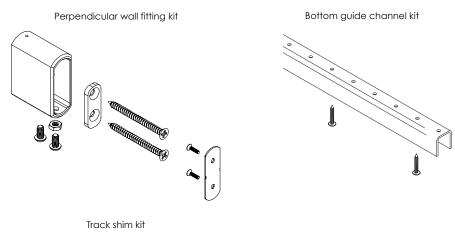
- Blue painters tape
- Pencil or other non permanent marking tool

2. VERIFY ALL COMPONENTS

BASE KIT



SYSTEM OPTIONS AND ADDITIONS







Go to our website for a complete range of door pulls and locks.

3. REMOVE TRACK COVER

- (1) Remove the track from the protective sleeve.
- (2) Gently pry the cover from the base with a slender plastic (non-marring) tool.

4. LOCATE TRACK ATTACHMENT POINTS

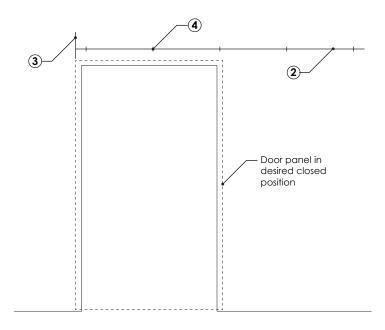
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1) Determine the height of the track centerline:

HEIGHT = DOOR PANEL HEIGHT + 3"

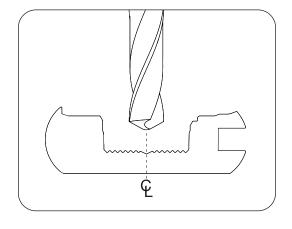
This will result in a 3/8" clearance between your door panel and the floor. Adjust if desired or necessary. Additional clearance can be achieved by the vertical adjustment feature on the trolleys. See step 20.

- Add 3/4" to this dimension if you are using the optional bottom guide channel.
- (2) Mark the track centerline on your wall. (If you run a length of painter's tape along your wall, you'll thank us later!)
- (3) On the wall, mark the desired location of the end point of your track, ideally so that it aligns with the edge of your door panel in the desired closed position.
- (4) Determine and mark the locations of all mounting points along the track centerline. If your track was pre-drilled, simply transfer the hole pattern from the track to the wall. If you purchased an un-drilled track, see step 5.
- Krownlab hardware requires a structural wall to function properly and safely. Each mounting point must engage an appropriate amount of structural material: Wood or metal framed walls must have 3" of solid blocking secured to studs or other framing members.



5. OPTIONAL STEP - UNDRILLED TRACK

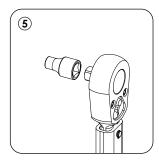
If your track is undrilled, please refer to the included instructions to drill the track properly for the weight of your panel.

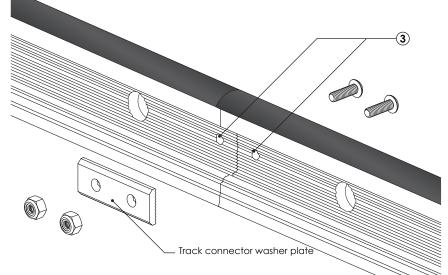


6. LINK MULTIPLE TRACKS

Track Connectors are included with multiple-track systems to keep the tracks in alignment. Skip to the next step for single-track installations.

- 1 Using a 1/16" allen wrench, remove the end cap from the correct end of each track.
- ② Butt tracks end to end as they will be installed on your wall. Using the track connector washer plate centered over the seam between the tracks as a template, mark each track for drilling.
- (3) Drill a 13/64" hole in each track.
- (4) Connect tracks by assembling the track connector washer plate as shown. Ensure that washer teeth align with teeth in the track before tightening fasteners.
- (5) Install a 3/8" socket onto a torque wrench and torque the nuts to 48 inch-lbs (4 ft-lbs). You may need to use a 1/8" allen wrench to prevent the screws from rotating while torquing.

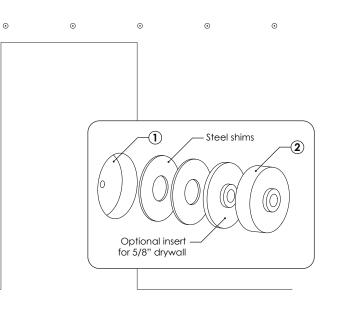




7. INSTALL DRYWALL INSERTS

This step is for walls with a non-structural surface only. I.e., drywall, pin-up board or other materials that are weaker than the wood blocking behind them. Skip to the next step for installations without these materials.

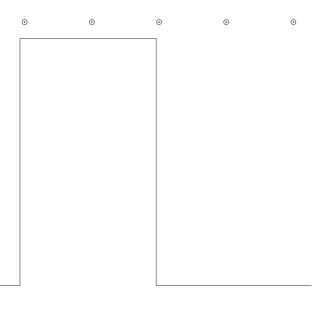
- () Use a 1-3/4" spade bit to remove the drywall at each mounting point.
- (2) Place a drywall insert into each drywall cavity.
- To perform their function, drywall inserts must be up against the structural material of your wall and flush with the finished surface of the drywall. If needed, use the included steel shims as shown.



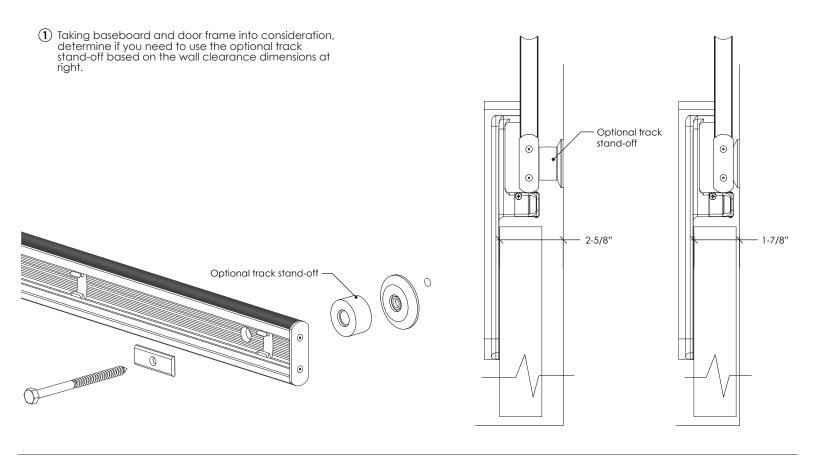
8. PREDRILL STRUCTURAL WALL

1 Drill a pilot hole for each mounting point.

Make sure that each mounting point engages an appropriate amount of structural material: Wood or metal stud framed walls must have 3" of solid wood blocking secured to studs or other framing members. Predrill 15/64" pilot hole for lag into soft wood blocking. (1/4" for hardwood)

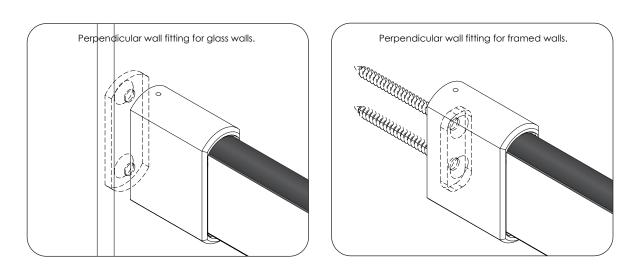


9. DETERMINE DESIRED WALL CLEARANCE



10. OPTIONAL STEP - INSTALL PERPENDICULAR WALL FITTING

If your order included a perpendicular track attachment, please proceed to the separate installation instructions to install the fitting. Once complete, resume the next step in these instructions.



II. MOUNT TRACK TO WALL

- Slide springs to the ends of track, but keep 1" away from holes to prevent clamping a spring under track washer plate. Evenly space springs along the length of track to ensure the cover is well-retained.
- (2) Ensuring that the black plastic track cap faces up, loosely install one end of your track with the appropriate track spacers and hardware.
- 3 Repeat with the opposite end of the track.

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See step 9

- Support the track assembly along its length if multiple tracks are linked together.
- (4) With both ends of the track now supported, loosely install the remaining mounting points.

(4)

3

2

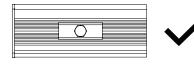
12. LEVEL AND ADJUST TRACK HEIGHT

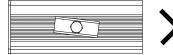
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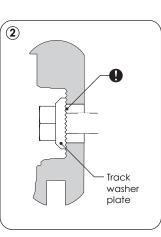
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Optional track stand-off

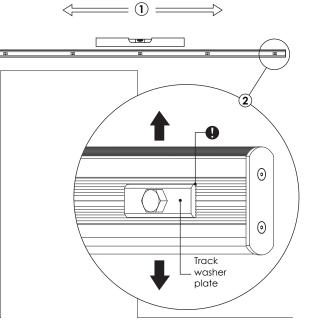
- Snug, but don't yet tighten each track fastener starting at the center and moving toward the ends. For maximum adjustability, start by positioning the washer plate in the center (neutral) position.
- Be sure to account for sloped or uneven floor when setting track height.
- (2) Use the Tru-Level[™] System to make sure track is level: adjust the position of the washer plate at each mounting point until track is level.
- Ensure that washer teeth align with teeth in the track before tightening fasteners.







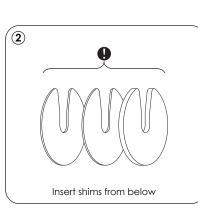
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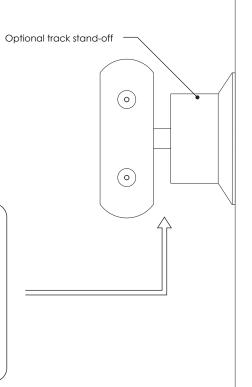


13. OPTIONAL STEP - INSTALL TRACK SHIMS

- (1) Sight down the length of your track to determine if unevenness in the wall is causing your track to bow. If necessary:
- (2) Loosen track attachment points as needed and insert shims from below. Ensure that the opening of the shim faces up. Start with one of the thinner shims, adding and swapping shims as needed until the track is straight to within the thickness of one shim.
- Never use more than one shim kit at any mounting point. Track shims may only be used at mounting points that pull the track out of true.

NOTE: Bowing in the track will negatively affect the performance of the entire system, causing increased friction and excessive wear on some components. Krownlab's warranty does not cover wear caused by improper installation.



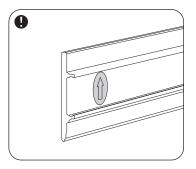


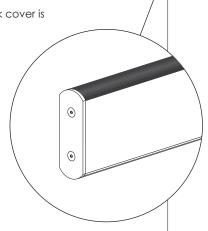
14. SECURE TRACK TO WALL

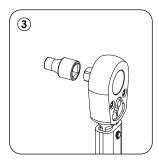
(1) Confirm the track has been leveled, shimmed, and all mounting points have been securely fastened.

Do not use shims with the purpose to extend the track standoff distance.

- (2) Inspect each track spring to ensure they are not interfering with the mounting hardware and evenly spaced along the length of the track.
- (3) Install 1/2" socket onto a torque wrench and torque the track bolts to 120 inch-lbs (10 ft-lbs).
- (4) Carefully reattach the track cover.
- (5) Confirm the track cover is fully seated and securely attached along the length.
- Ensure that the arrow on the inside of the track cover is facing up.

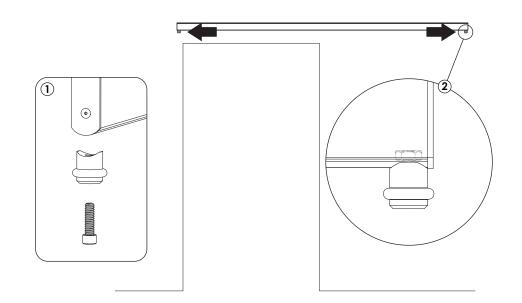






15. ATTACH DOOR STOPS

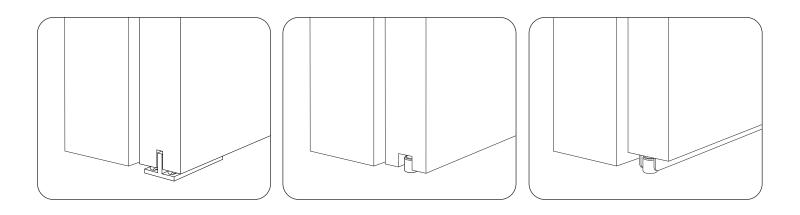
- (1) Locate the preinstalled nuts in the bottom of the track. Loosely screw a door stop to each nut.
- (2) Temporarily slide one door stop to each end of the track. Do not tighten the stops yet.



16. PREPARE DOOR FOR DOOR GUIDE

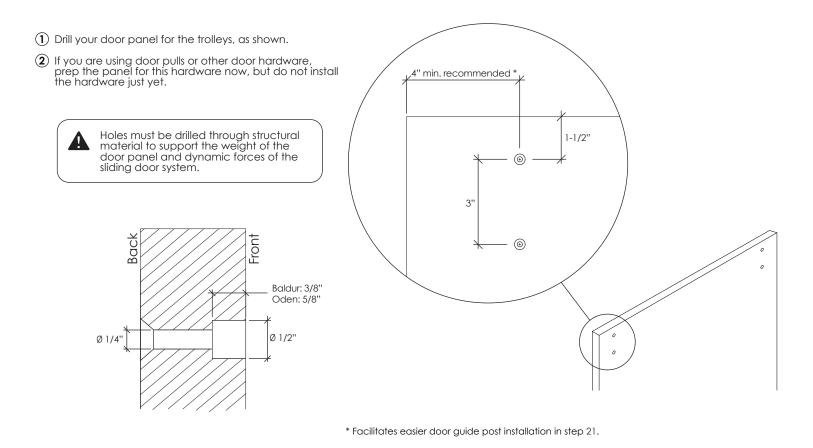
Refer to the separate installation instructions for the door guide that is included with your order*. Once door is prepared, return to this document for next steps.

*Included door guide may vary from examples shown below.



Installation of a door guide is required, and must always be engaged for safety.

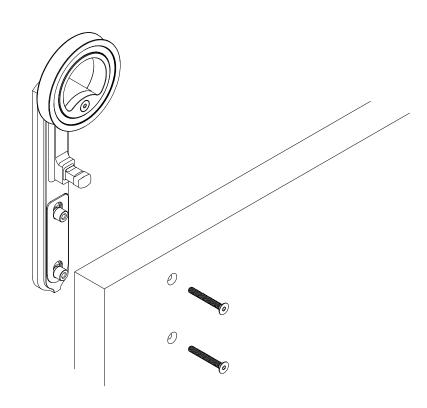
17. DRILL DOOR PANEL

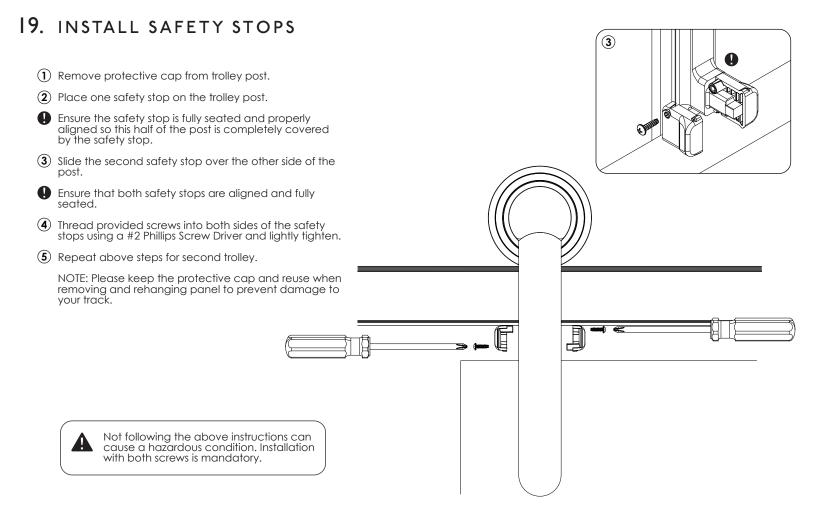


18. ATTACH TROLLEYS TO DOOR PANEL

- (1) Attach the trolleys using the correct length fastener as shown in the table below.
- (2) Gently tighten. For Baldur only: back out each screw a half turn. This will allow you to adjust the panel height after installation.
- (3) Carefully hang your panel.
- Do not yet install your door pulls or other door hardware.

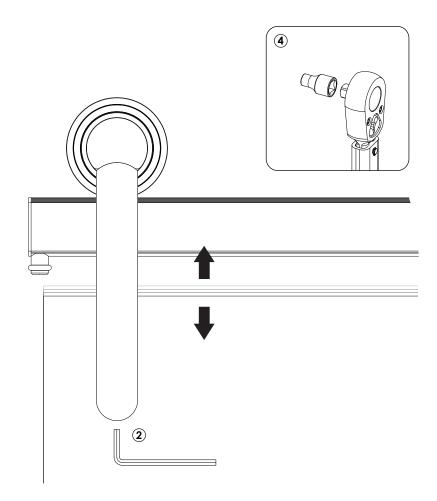
Panel thickness	Screw length
3/4" - 1-1/8"	1"
1-1/4" - 1-5/8"	1-1/2"
1-3/4" - 2"	2''
2-1/8" - 2-1/2"	2-1/2"





20. ADJUST PANEL HEIGHT

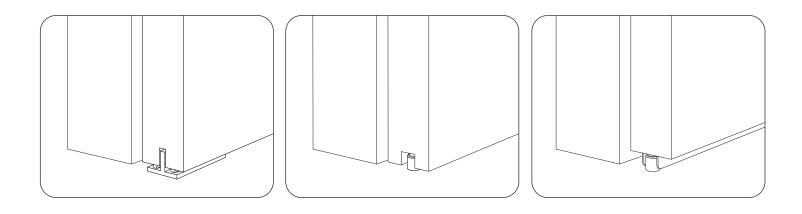
- FOR ODEN: SKIP TO STEP 21
- (1) Check for any interference due to an uneven floor by sliding the panel back and forth.
- (2) If necessary, adjust the height of the panel by loosening the set screws at the bottom of each trolley with a 1/8" allen wrench. Trolleys are shipped in the up position.
- (3) After the panel height has been adjusted, tighten the trolley screws by hand with a 5/32" allen wrench on the backside of the panel.
- (4) Insert the provided 5/32" hex bit into a 1/4" socket on a torque wrench, and torque between 36 and 108 inch-lbs (3-9 ft-lbs), depending on door materials. A denser door material (ex. Metal) will need more torque than a lightweight material (ex. Wood).
- If additional vertical adjustment is required, unhang the door panel, remove the track cover, and adjust the track up or down as needed.



21. INSTALL DOOR GUIDE

Refer to the separate installation instructions for the door guide that is included with your order*. Once installed, return to this document for next steps.

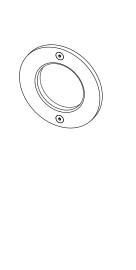
*Included door guide may vary from examples shown below.



Installation of a door guide is required, and must always be engaged for safety.

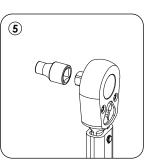
22. INSTALL DOOR PULLS

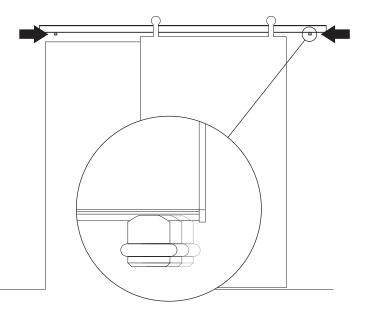
1 If applicable, install door pulls following applicable installation instructions.



23. SET DOOR TRAVEL

- (1) With the door in the desired closed position, slide the door stop so that it touches the safety stop of the nearby trolley.
- Note any protruding door pulls!
- (2) Repeat with the door in the open position, sliding the door stop so that it touches the safety stop of the nearby trolley.
- Verify that the door guide is properly engaged in the fully open and fully closed positions. Ð
- (3) Tighten the door stops in place by hand with a 3/16" allen wrench.
- 4 Confirm locations haven't shifted while tightening. Adjust if needed.
- (5) Insert the provided 3/16" hex bit into a 1/4" socket on a torque wrench, and torque to 110 inch-lbs (9.5 ft-lbs).





24. MAINTENANCE AND CARE

Routine Maintenance:

- Periodically check tightness of fasteners, particularly in high-use installations.
- Using a dry cloth, wipe bearing and wheel wearing surfaces and remove any build-up of dust or debris every few thousand cycles or every few months, whichever comes first.
- Bearings without seals should occasionally be lubricated with bearing oil. (e.g. SHC 630 Synthetic Gear and Bearing Oil by Exxon Mobil Corp: www.mobil.com)

Chemicals:

- This product contains elastomers, polymers, adhesives and special finishes. Chemicals must be checked for compatibility before using on product.
- Never use ammonia-based cleaners or anaerobic thread lockers on or near product.

Cleaning:

- To clean any time after installation, use a clean and dry non-abrasive lint free cloth. A mild soap may be used if extra cleaning is Select Black Stainless parts like the bearings can be re-enhanced with furniture style carnauba wax. If needed, apply a thin coating with a clean cloth, let dry, then buff clean. Do not apply to plastic or rubber components.
 Do not use steel wool, or a Scotch Brite pad, as it can scratch the product.