

OPEN RAKE SYSTEM ■ INSTALLATION INSTRUCTIONS



ELEVATED PANELS

DESIGNED FOR 7-1/2" RISE AND 10" RUN (37°)

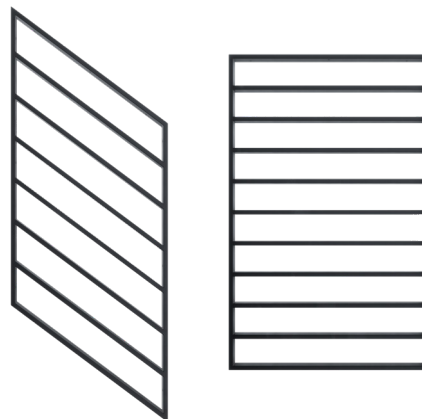
POWDER COATED STEEL - SATIN BLACK FINISH - FOR INTERIOR USE ONLY

TOOLS & MATERIALS

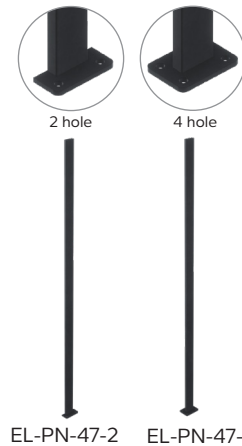
- POWER DRILL
- RIGHT ANGLE DRILL ATTACHMENT(OPTIONAL)
- HACKSAW OR ANGLE GRINDER W/ CUTOFF WHEEL
- MITER SAW
- SQUEEZE CLAMPS
- SQUARE OR PHILLIPS SCREW TIP
- 5/32" HEX HEAD OR ALLEN WRENCH
- 1/8", 3/16", 1/4", 3/8" TWIST BITS
- TWO PART EPOXY W/ APPLICATOR
- TAPE MEASURE
- SAFETY GLASSES

SYSTEM COMPONENTS

RAKE PANELS BALCONY PANELS



OPEN RAKE NEWELS



NEWEL BOLT



EL-PB-1-10 (10 pack)
EL-PB-1-50 (50 pack)

NEWEL SCREW



EL-NS-234-10 (10 pack)
EL-NS-234-50 (50 pack)

HANDRAIL SCREW



EL-HS-114-10 (10 pack)
EL-HS-114-50 (50 pack)

OPTIONAL SYSTEM COMPONENTS

UNIVERSAL NEWEL



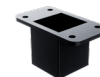
EL-UN-47-4

RAIL SUPPORTS

(For use with universal newel)



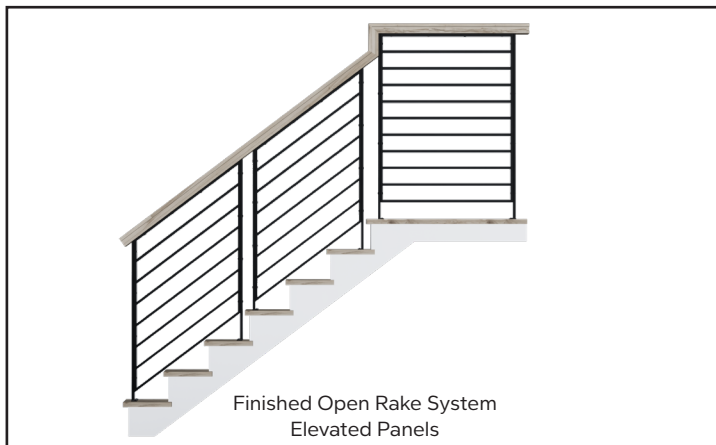
EL-UN-38-SPT
(angle)



EL-UN-180-SPT
(in-line)



EL-UN-90-SPT
(corner)



Finished Open Rake System
Elevated Panels

Note: The space between panels must be 4" or less. Please consider the 1/2" thickness of each open rake newel and 1-1/2" thickness of each universal newel when calculating spacing.

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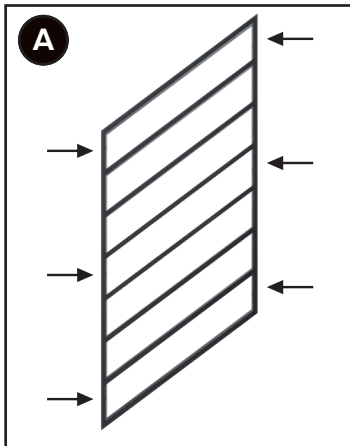
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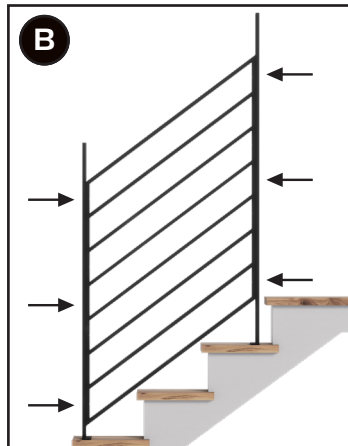
OPEN RAKE SYSTEM - ELEVATED PANELS - INSTALLATION INSTRUCTIONS

Determine spacing for each rake section and order the necessary panels and newels to infill each section to meet building codes.

1. Drill three evenly spaced 3/8" holes through each vertical end of each panel (A). These holes will be used to secure the panels to the panel posts.
2. Position and mark the location of each open rake newel. Temporarily attach each panel post to the respective tread (squeeze clamps).
3. Temporarily position the panels between the open rake newels while resting on the tread nosing. Mark the newels at the appropriate height and angle so they are flush with the tops of the rake panels. Using the holes drilled in the panel ends in Step 1 as a template, transfer these locations to the panel posts (B).
4. Trim and drill 3/8" holes in the panel posts at the marks made in Step 3 (B).
5. Permanently mount the open rake newels to the treads using the supplied 2-3/4" newel screws (C).
6. Secure the panels to the open rake newels using 6 newel bolt fasteners per panel (D).
7. Trim the handrail to length for each run. Use handrail fittings for making turns or changes in elevation (optional).
8. Position the handrail over the panels and mark and drill 1/8" holes in the bottom of the handrail at the predrilled locations in the panel tops. If universal newels are being used, also drill holes for them using the top rail support plate as a template (E).
9. Secure the handrail in place by installing the supplied 1/4" handrail screws through the panels (and universal newel rail support plates if used) into the handrail bottom (F).



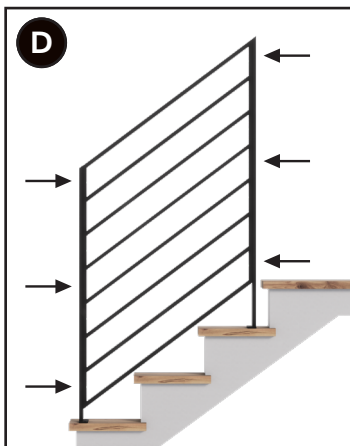
Drill 3/8" holes



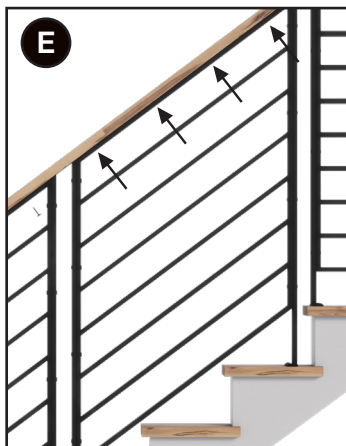
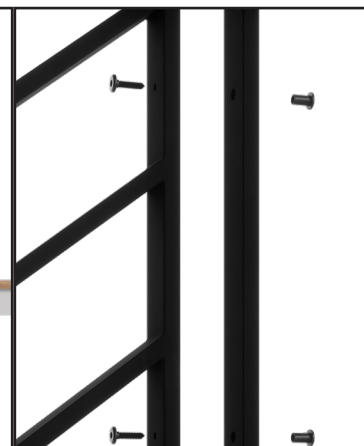
Mark and trim open rake newels
Drill 3/8" holes in both newels



Use 2-3/4" newel screws



Install newel bolt fasteners to each side of the panel (6 total)



Drill 1/8" pilot holes
Use 1-1/4" handrail screws



Drill 1/8" pilot holes
Use 1-1/4" handrail screws

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ELEVATED PANELS

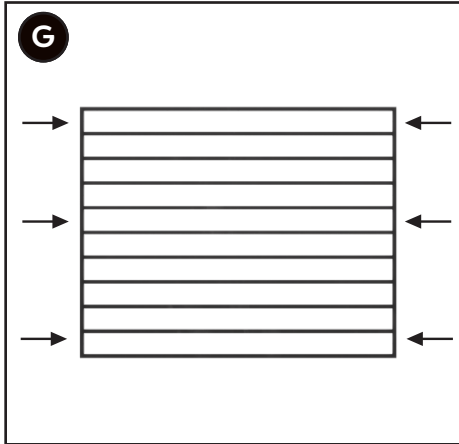
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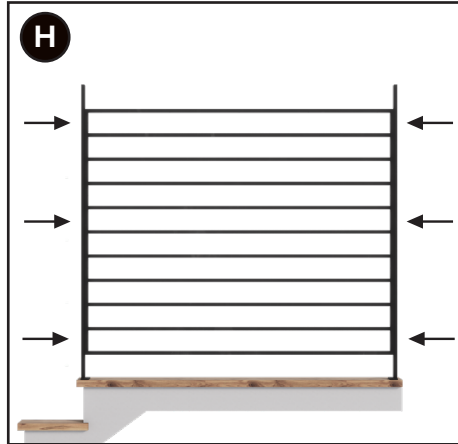
BALCONY SYSTEM - ELEVATED PANELS - INSTALLATION INSTRUCTIONS

Determine spacing for each balcony section and order the necessary panels and newels to infill each section to meet building codes.

1. Drill three 3/8" holes evenly spaced through each vertical end of each panel. These holes will be used to secure the panels to the panel posts (G).
2. Position, mark and temporarily mount each open rake newel(squeeze clamps).
3. Temporarily position the panels between the open rake newels at the desired elevation above the floor surface. Mark the posts at the appropriate height to make them flush with the tops of the panels. Using the holes drilled in the panel ends in Step 1 as a template, transfer these locations to the panel posts (H).
4. Trim and drill the open rake newels at the marks made in Step 3 (H).
5. Permanently mount the universal newels (if used/required) to the floor using the supplied 2 3/4" newel screws (I).
6. Secure the panels to the open rake newels using 6 newel bolt fasteners per panel (J).
7. Trim the handrail to length for each run. Use handrail fittings for making turns or changes in elevation (optional).
8. Position the handrail over the panels and mark and drill 1/8" holes in the bottom of the handrail at the predrilled locations in the panel tops. If universal newels are being used, also drill holes for them using the rail support plate as a template (K).
9. Secure the handrail in place by installing the supplied 1/4" handrail screws through the panels (and universal newel support plates if used) into the handrail bottom (K).



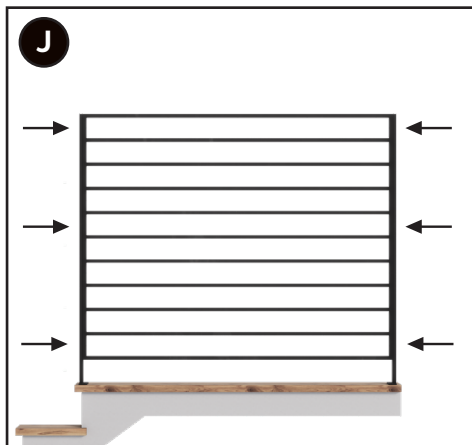
Drill 3/8" holes



Mark and trim open rake newels
Drill 3/8" holes in both newels



Use 2-3/4" newel screws



Install newel bolt fasteners to each side of the panel (6 total)



Drill 1/8" pilot holes
Use 1-1/4" handrail screws

INSTALLATION VIDEO



HOUSE OF FORGINGS
STAIR & RAILING