

Fortress™ Railing Overview



Use the steps below for the following pages to complete your rail

STEP 1 Choose Panel
Glass Options Available

STEP 3 Choose post (Includes Skirt)

STEP 2 Choose Brackets (4 Pack)

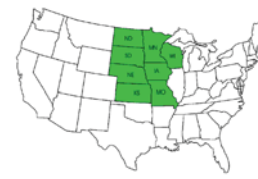
STEP 4 Select a Post Cap



Fortress™ Full Glass Panels

Fortress full glass panel rail system is a first of its kind glass rail that minimizes the need for custom cut glass panels. With 7 standard sizes of glass panels readily available, you are likely to find the right sizes to fit your rail. The minimal rail profile and open view of glass provides for an unobstructed view from your home.

[See pages 164 - 171](#)



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS



FortressTM Aluminum Rail - White

FortressTM Al¹³ Welded Aluminum Panels



Top / bottom rail measure 1-5/8" x 1" and Infill balusters are 3/4" square for both level and stair panels.

Available in:
 Black Sand
 White

6' - Al¹³ Traditional Aluminum Panel

Sold in any quantity

34" x 69" Fortress Al¹³ welded aluminum panel achieves a total railing height of 36". 40" x 69" Fortress Al¹³ welded aluminum panel achieves a total railing height of 42."

36" Rail Height (34" x 69" Panel)

Item # 51134698 - Black Sand (Txt)
Item # 51134691 - White

42" Rail Height (40" x 69" Panel)

Item # **51140698** - Black Sand (Txt)
Item # **51140691** - White

8' - Al¹³ Traditional Aluminum Panel

Sold in any quantity

34" x 93" Fortress Al¹³ welded aluminum panel achieves a total railing height of 36". 40" x 93" Fortress Al¹³ welded aluminum panel achieves a total railing height of 42."

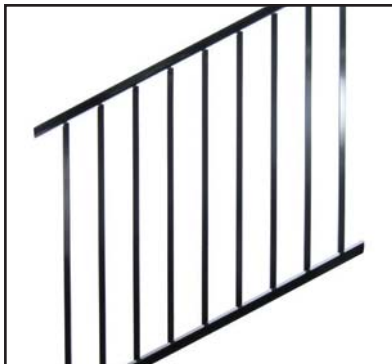
36" Rail Height (34" x 93" Panel)

Item # 51134938 - Black Sand (Txt)
Item # 51134931 - White

42" Rail Height (40" x 93" Panel)

Item # **51140938** - Black Sand (Txt)
Item # **51140931** - White

FortressTM Al¹³ Adjustable Aluminum Stair Panels



Available in:
 Black Sand
 White

8' - Al¹³ Aluminum Adjustable Stair Panel

Sold in any quantity

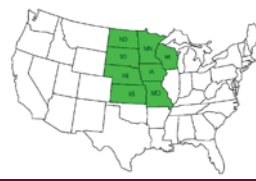
Fortress Al¹³ aluminum panel for stairs and ramps, achieves a total railing height of either 36" or 40". Panel adjustable from 5° - 45°.

36" Rail Height (34" x 93" Panel)

Item # 51234728 - Black Sand (Txt)
Item # 51234721 - White

42" Rail Height (40" x 93" Panel)

Item # **51240938** - Black Sand (Txt)
Item # **51240931** - White



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS

FortressTM AI¹³ Rail Brackets



Available in:

Black Sand

White

AI¹³ Evolve External Bracket - Level

Sold in bags of 4.

Top and bottom rails drop into a cup (UB style) for level / straight applications with a cap to cover for a finished look. Includes screws for wood and metal applications.

Item # 51500218 - Black Sand (Textured)
Item # 51500211 - White



Available in:

Black Sand

White

AI¹³ Evolve External Bracket - Stair

Sold in bags of 4.

Top and bottom rails drop into a cup (UB style) for stair applications with a cap to cover for a finished look. Includes screws for wood and metal applications.

Item # 51500318 - Black Sand (Textured)
Item # 51500311 - White



Available in:

Black Sand

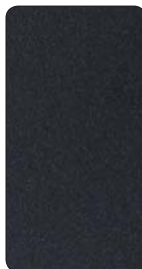
White

AI¹³ Evolve External Bracket - Angle / Miter

Sold in bags of 4.

Top and bottom rails drop into a cup (UB style) for level angle/miter applications with a cap to cover for a finished look. Includes screws for wood and metal applications.

Item # 51500418 - Black Sand (Textured)
Item # 51500411 - White

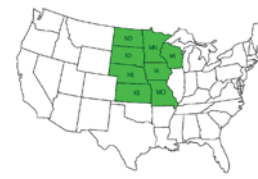


Black Sand



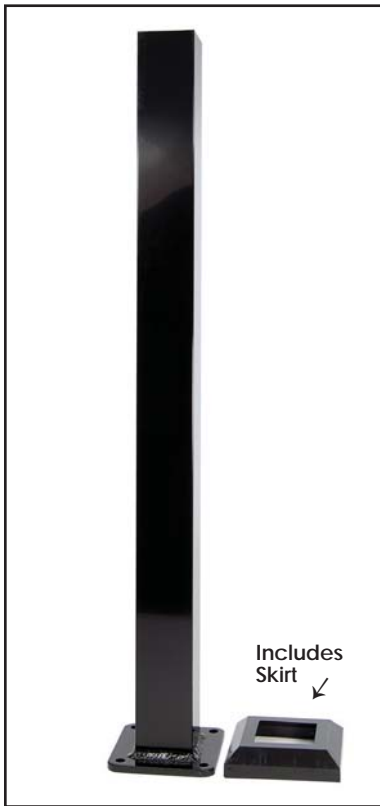
White

Colors shown are an approximate representation only, please see actual product sample when selecting color



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS

FortressTM AI¹³ Posts, Caps & Skirts



Available in:

- Black Sand
- White

AI¹³ Aluminum 3" Post with 2 pc. Skirt

Sold in any quantity.

3" x 39-1/2" Aluminum post with 5-1/2" flange and skirt to install panels at a 36" railing height. Flange holes are 1/2" for fasteners. **Includes skirt for base.**

- Item # 51339018 - Black Sand (Textured)
- Item # 51339011 - White

3" x 45-1/2" Aluminum post with 5-1/2" flange and skirt to install panels at a 42" railing height. Flange holes are 1/2" for fasteners. **Includes skirt for base.**

- Item # 51345018 - Black Sand (Textured)
- Item # 51345011 - White



FortressAccents 3" Post Cap

Sold in any quantity.

Accents flat die cast aluminum post cap for 3" post.

- Item # 52500038 - Black Sand (Textured)
- Item # 52500031 - White



3" Post Skirt

Sold in any quantity.

AI¹³ - 5-3/4" Post base cover included. Also sold separately.

- Item # 51500038 - Black Sand (Textured)
- Item # 51500031 - White



Available in:

- Black Sand
- White

FortressAccents Post Cap with Optional Light Kit

Sold in any quantity.

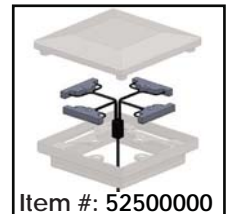
Accents flat die cast aluminum post cap for 3" post. Light kit draws 2 watts. Light color - 2600K. Includes wire nuts and 60" lead wire. **Must purchase LED cap light kit along with cap.**

3" Post Cap

- Item # 52500038 - Black Sand (Textured)
- Item # 52500031 - White

Light Kit

- Item # 52500000 - LED Light Kit



Item #: 52500000



Available in:

- Black Sand
- White

FortressAccents Post Cap with Optional Glow Ring

Sold in any quantity.

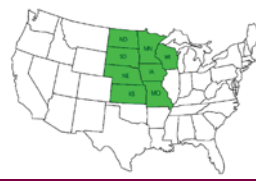
Accents flat die cast aluminum post cap for 3" Post. Glow ring draws 1.5 watts. Light color - 2600K. Includes wire nuts and 60" lead wire. **Must purchase LED glow ring light kit along with cap.**

3" Post Cap

- Item # 52500038 - Black Sand (Textured)
- Item # 52500031 - White

Glow Ring

- Item # 52503030 - 3" Glow Ring



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS



Available in:

- Black Sand
- White

AI¹³ Flat Aluminum Pyramid Post Cap

Sold in any quantity.

AI¹³ - 3" Flat pyramid cap.

Item #: 51500048 - Black Sand (Textured)
Item #: 51500041 - White

FortressTM AI¹³ Accessories



Available in:

- Black Sand
- White

8' - AI¹³ Colonial Flat Aluminum Accent Top Rail

Sold in any quantity.

Adds an additional architectural element to FortressTM AI¹³ panels, comes in 8' length only.

Item # 51400938 - Black Sand (Textured)
Item # 51400931 - White



Available in:

- Black Sand
- White

AI¹³ Evolve P2 Bracket - Level / Angle / Miter

Sold in bags of 4.

Attaches under top and bottom rails for level, straight or LH/RH miter applications. Includes screws for wood and metal applications.

Item # 51500618 - Black Sand (Textured)
Item # 51500611 - White



Available in:

- Black Sand
- White

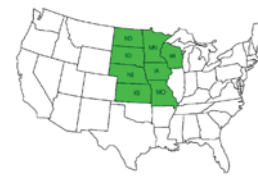
AI¹³ Evolve P2 Bracket - Stair

Sold in bags of 4.

Attaches under top and bottom rails for stair applications. Includes screws for wood and metal applications.

Item # 51500718 - Black Sand (Textured)
Item # 51500711 - White





ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS



Available in:
 Black Sand
 White

Al¹³ Aluminum Support Block

Sold in any quantity.

3-3/4" Support block provides additional support at mid-span of rail.

Item # 55535008 - Black Sand (Textured)
 Item # 55535001 - White



Available in:
 Black Sand
 White

Al¹³ Aluminum Cap Rail Clip

Sold in bags of 4.

Clips allow for a clean, smooth attachment of wood or composite cap rails to the top of Al¹³ panels. Clips are recommended every 2' along the rail. Includes screws.

Item # 51500078 - Black Sand (Textured)
 Item # 51500071 - White



Available in:
 Black Sand
 White

Al¹³ Touch Up Paint

Sold in any quantity.

Available in two convenient sizes.

Spray Can

Item # 660378 - Black Sand
 Item # 660371 - White

Paint Pen

Item # 660368 - Black Sand
 Item # 660361 - White



Available in:
 Black Sand
 White

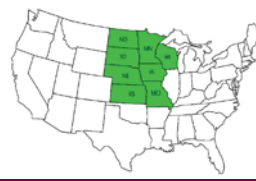
Al¹³ Replacement Screw Packs

Sold in bags of 8.

Self tapping, Torx drive screw for installing rail connectors to metal or wood posts. Use T25 bit. Screws included with brackets.

Item # 661219 - Black Sand, 3/4" thread cutting screw
 Item # 661217 - White, 3/4" thread cutting screw

Item # 661222 - Black Sand, 2 1/2" wood screw
 Item # 661223 - White, 2 1/2" wood screw



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS

FortressTM AI¹³ Gate Kits



Available in:

Black Sand

White

AI¹³ Aluminum Gate Uprights

Sold in any quantity.

Fortress AI¹³ welded Aluminum gate uprights. Simply trim panel to size (not included), then install uprights and secure. **Rail panel, hinges and latch sold separately.**

Ex: Completed Gate Kit

36" Rail Height (34")

Item # 51534058 - Black Sand (Textured)
Item # 51534051 - White

42" Rail Height (40")

Item # **51540058** - Black Sand (Textured)
Item # **51540051** - White



Available in:

Black

White

Gate Hinges

Sold in pairs.

Aluminum gate hinges are self closing and tension adjustable to work with most gate kits. Features a smooth powder coat finish. Measures 5-3/4" tall with 1-1/2" legs. Maximum self-closing weight of 44 lbs. Includes screws.

Item #: DDBLACKHINGE - Black
Item #: DDWHITEHINGE - White



Available in:

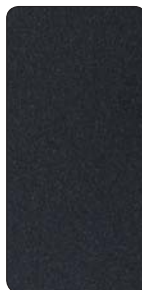
Black

Gate Latch Kit

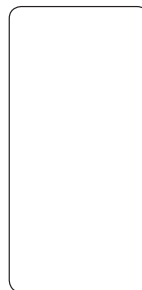
Sold in any quantity.

D&D Technologies gate latch is key lockable from one side only. Includes 2 keys and hardware. Screws included.

Item # LLAA - Black
Item # LLAAW - White



Black Sand



White

Colors shown are an approximate representation only, please see actual product sample when selecting color

RED item numbers denote **NON STOCK** special order. Please allow for 2 week lead time.



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS

FortressTM AI¹³ 1-1/2" Round Aluminum Handrail



Assemble secondary handrail using 2 part epoxy (No fasteners required)



Available in:

Black Sand

White

8' - AI¹³ Aluminum Round Handrail

Sold in any quantity.

1-1/2 x 8' round graspable handrail meets IRC requirements for secondary handrail system.

Item # 50500938 - Black Sand (Textured)
Item # 50500931 - White



Available in:

Black Sand

White

AI¹³ Aluminum Round Handrail Return Bracket

2/Pack

Returns 1-1/2" round handrail into post or wall. Works for any flat surface 2" or more. **Requires a straight handrail splice to connect to rail (see item below).** Includes color matched screws.

Item # 50500058 - Black Sand (Textured)
Item # 50500051 - White



Available in:

Black Sand

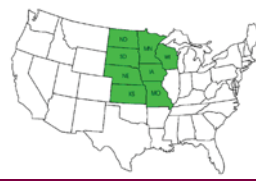
White

AI¹³ Aluminum Round Handrail Splice

Sold in any quantity.

Splice Joins 1-1/2" round handrail sections. Middle trim ring conceals splice. No hardware required, use 2 part epoxy kit for installation.

Item # 50500048 - Black Sand (Textured)
Item # 50500041 - White



ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS



Available in:
 Black Sand
 White

AI¹³ Aluminum Round Mid-Rail Bracket

2/Pack

Attaches 1-1/2" round handrail to post or wall. Includes color matched screws for wood and metal. Sold as pair.

Item # 50500018 - Black Sand (Textured)
 Item # 50500011 - White



Available in:
 Black Sand
 White

AI¹³ Aluminum Round Handrail Angle Adjuster

Sold in any quantity.

Angle adjuster may be used to adjust to appropriate stair angle. No hardware required, use 2 part epoxy kit for installation.

Item # 50501038 - Black Sand (Textured)
 Item # 50501031 - White



Available in:
 Black Sand
 White

AI¹³ Aluminum Round Handrail 90° Elbow

Sold in any quantity.

90 Degree corner used to transition around post, must use handrail splice to attach to handrail. No hardware required, use 2 part epoxy kit for installation.

Item # 50500028 - Black Sand (Textured)
 Item # 50500021 - White



Available in:
 Black Sand
 White

AI¹³ Aluminum Round Handrail Corner Bracket

2/Pack

Attaches 1-1/2" round handrail to inside corner of post or wall. Includes color matched screws.

Item # 50500118 - Black Sand (Textured)
 Item # 50500111 - White



Available in:
 Black Sand
 White

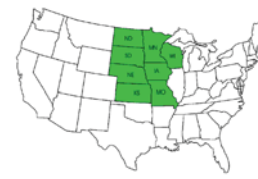
AI¹³ Aluminum Round Handrail P-Loop

Sold in any quantity.

180 Degree Handrail end loop is used to extend beyond post and return back to post. Handrail splice, mid rail bracket, and return bracket are required to complete installation. No hardware required, use 2 part epoxy kit for installation.

Item # 50501028 - Black Sand (Textured)
 Item # 50501021 - White





ACTUAL FREIGHT CHARGES APPLY TO ALL FORTRESSTM RAIL ORDERS



Available in:
 Black Sand
 White

AI¹³ Aluminum Round Handrail End Cap

2/Pack

Finishes end of handrail, use 2 part epoxy kit for installation.

Item # 50500038 - Black Sand (Textured)
 Item # 50500031 - White



AI¹³ Handrail Adhesive

Sold in any quantity.

250ml - 2 part epoxy with mixer tip and extension tube. Additional mixer tips sold separately.

Item # 660972 - Pro Poxo Kit
 Item # 660973 - Replacement mixer/extension



Available in:
 Black Sand
 White

AI¹³ Touch Up Paint

Sold in any quantity.

Available in two convenient sizes.

Spray Can

Item # 660378 - Black Sand
 Item # 660371 - White

Paint Pen

Item # 660368 - Black Sand
 Item # 660361 - White