ENDURANCE PRODUCT LINE



R rdi.





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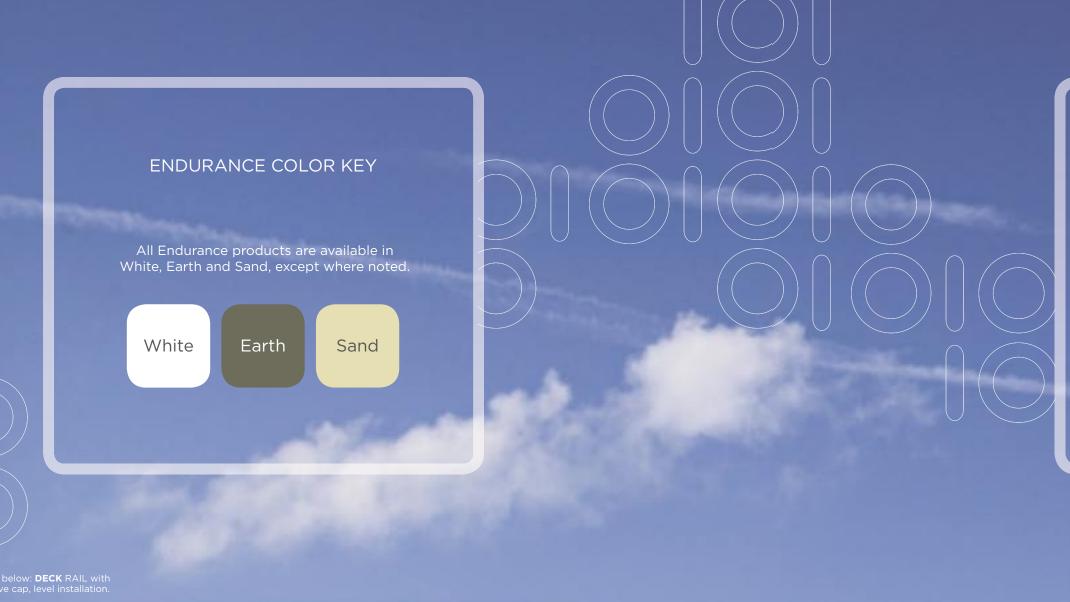
 Pictured at right: ORIGINAL RAIL level installation.
Inset: ORIGINAL RAIL level and stair installation. The Endurance® family of maintenance-free building products is our national best seller, thanks to sound engineering that enables easy and safe installations. Our maintenancefree systems are manufactured using the highest quality materials for each and every product.

Our extensive Endurance product line improves the appearance of any home or commercial space. We offer these products through building product distributors nationwide in an array of colors, styles, options and dimensions to meet all your performance and building requirements. Our commitment to making the safest, highest quality products available today makes it easy for you to choose Endurance.





 Pictured at left: ORIGINAL RAIL level installation.
Inset: ORIGINAL RAIL level installation.



Pictured below: DECK RAIL with decorative cap, level installation.

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ORIGINAL RAIL[™] is the cornerstone of the Endurance product line. The most complete system of railing kits is coupled with a variety of accessory brackets that allow installation to any surface at any angle. Simple form and dependable function unite these rail designs to maintain safety without sacrificing the elegant presentation of your home or commercial space. No detail is too small, and we've considered them all, down to the tamperproof screw head covers. The vinyl extrusions with aluminum stiffeners add strength and durability to the top and bottom rails, while the unique, patented locking pin design provides secure, invisible attachment of the aluminum reinforcements to the building structure. Original Rail exceeds U.S. Building Code requirements and is backed by certified third-party quality assurance and ICC-ES evaluation report NER-701. Consult your local building code department for applicable regulations and product acceptance. ICC-ES evaluation reports on Original Rail can be downloaded from www.rdirail.com



ORIGINAL RAIL PRODUCT FEATURES

ALUMINUM STIFFENER -

Unlike inferior products with steel reinforcements, aluminum can be cut easily onsite, to speed installation, and it won't corrode or stain.

ACCESSORY BRACKET KITS ▼

Bracket kits include one top and bottom bracket and



LOCKING PIN

installation.

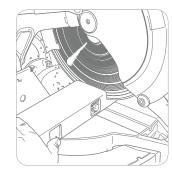
RAILING KITS

Original Rail kits contain everything you need to create a safe and code compliant rail section in one convenient box: top and bottom vinyl extrusion with interior aluminum stiffeners, locking pin, balusters, mounting brackets with integral locking screw covers, and stainless steel mounting screws. Additional level or stair bracket kits are sold separately to build two rail sections from one rail kit.

COLOR The Locking Pin feature secures the aluminum White Earth Sand stiffener directly to the building structure. The narrow bracket design does not interfere with the simple beauty of the



Whether you're a seasoned pro or just handy around the house, the Endurance railing system is simple to install. Clear, step-by-step illustrated instructions are included with every kit.



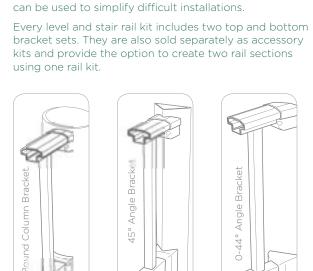
Determine the length between mounting points and cut the rail sections with a multitooth carbide blade. (Always wear safety goggles)

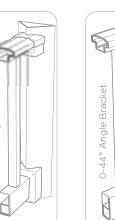


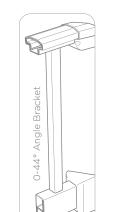
Place the bottom brackets on the bottom rail and attach them with the stainless steel screws included in the kit.



Insert the balusters in the bottom rail. Neither screws nor glue is needed.

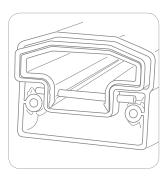






Endurance Original Rail exceeds U.S. building <u>PFS</u>/ code requirements for guard rail and is backed by independent third-party quality assurance. Original Rail is an International Code Council-evaluated safety product. See ICC-ES NER #701 at www.rdirail.com or at www.ICCsite.com to view or print the report.

Always consult your local Building Code Department for applicable regulations and product acceptance.



Slip the top bracket on the top rail and drill holes for the locking pin.



Insert the top rail between posts and over the balusters. Attach the brackets the same way as the bottom rail.

The railing installation is complete! Finish the job by snapping in the screw hole covers and make the fastener heads disappear.

LEVEL RAIL KITS



12

36" RESIDENTIAL HEIGHT LEVEL RAILING KITS						
BALUSTER	LENGTH				COLOR	
Square	4'	5'	6'	8'	10'	White, Earth, Sand
Turned	4'	5'	6'	8'	10'	White, Earth, Sand

42" COMMERCIAL HEIGHT LEVEL RAILING KITS						
BALUSTER	LENGTH				COLOR	
Square	4'	5'	6'	8'	10'	White, Earth, Sand







36" RESIDENTIAL HEIGHT LEVEL RAILING KITS							
BALUSTER	LEN	GTH	ANGLE	COLOR			
Square	6'	8'	29-35°, 36-41°	White, Earth, Sand			
Turned	6'	8'	29-35°, 36-41°	White, Earth, Sand			

42" COMMERCIAL HEIGHT STAIR RAILING KITS						
BALUSTER	LENGTH		ANGLE	COLOR		
Square	6'	8'	29-35°, 36-41°	White, Earth, Sand		



STAIR RAIL KITS



Pictured at right: ORIGINAL RAIL level rail installation, with Victorian balusters and Round Column Accessory Bracket Kit. Featuring New England caps.

Inset: **ORIGINAL** RAIL level rail installation, with Victorian balusters and Round Column Accessory Bracket Kit.



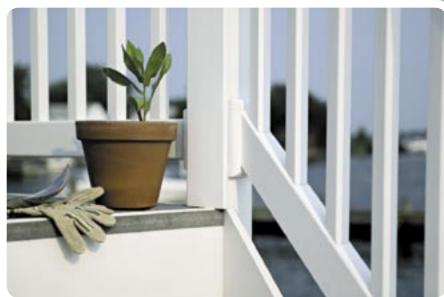


Pictured at right: ORIGINAL RAIL level rail installations, with square balusters and New England Cap.

Inset: **ORIGINAL** RAIL level and stair rail installation*, featuring the top rail with square balusters and New England Cap.

*NOTE: This specific design is difficult and may require a more skilled installer.





 Pictured at right: ORIGINAL RAIL level rail installation, with square balusters and New England Cap.

Inset: **ORIGINAL** RAIL level and stair rail installation, featuring the bottom rail and stair bracket detail.





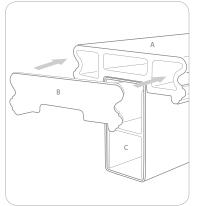
DECK RAIL[™] is the ultimate combination of superior design and beauty. We've set a new standard in the vinyl railing industry with our innovative wide cap design—an optional decorative feature that beautifies and serves as an active surface on your deck while barbecuing or relaxing. Made from a durable composite material with the look of freshly-painted wood, the cap was designed to provide a continuous clean line over the intermediary newel posts. The accessory bracket kits provide flexibility to your unique railing installation, offering solutions for mounting to round columns or angles ranging from 0° to 45°.



DECK RAIL PRODUCT FEATURES

RAILING KITS

Deck Rail kits contain everything you need to create a safe and code compliant rail section in one convenient box: top and bottom vinyl extrusions with interior aluminum stiffeners, balusters, mounting brackets with integral locking screw cover caps, and stainless steel mounting screws. The Decorative composite cap is sold separately and can be used with any Deck Rail installation. Additional level stair brackets are available to build two rail sections from one kit.



The decorative composite cap provides the beauty of freshly painted wood without the maintenance. The wide surface provides a great place for plates and drinks while relaxing or entertaining on your deck.

(B) MOLDED END CAP

The molded end cap finishes the installation and the look of a custom wood railing.

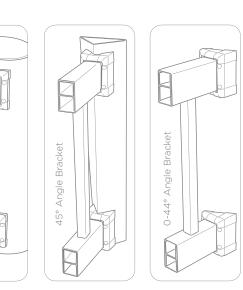
∢ (C) ALUMINUM REINFORCEMENT

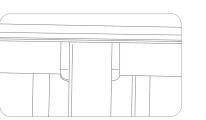
The aluminum "H" channel in the top and bottom rails adds extra strength to the installation. The aluminum channels cut easily onsite and won't rust and stain your deck the way steel inserts can.

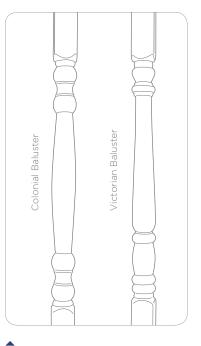
ACCESSORY BRACKET KITS >

Bracket kits include one top and bottom bracket and can be used to simplify difficult installations.

Every level and stair rail kit includes two top and bottom bracket sets. They are also sold separately as accessory kits and provide the option to create two rail sections using one rail kit.

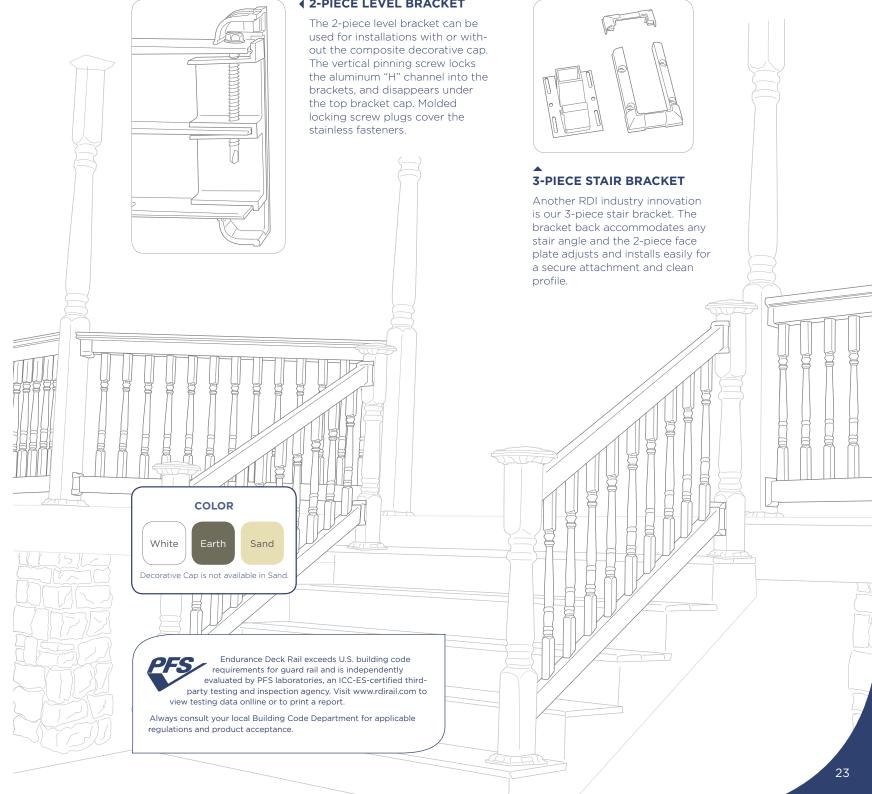






CLASSIC BALUSTER DESIGNS

The Victorian baluster adds the beauty of a classic turned wood baluster for 36" applications. The traditional Colonial baluster is available for 42" applications and can be cut for 36"



▲ 2-PIECE LEVEL BRACKET

LEVEL RAIL KITS



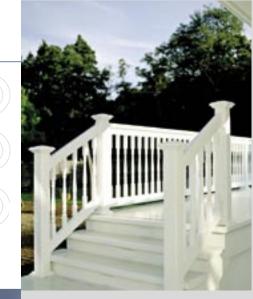
24

36" RESIDENTIAL HEIGHT LEVEL RAILING KITS							
BALUSTER	LENGTH				COLOR		
Square	5'	6'	8'	10'	White, Earth, Sand		
Colonial*	5'	6'	8'	10'	White, Earth, Sand		
Victorian	5'	6'	8'	10'	White, Earth, Sand		

42" COMMERCIAL HEIGHT LEVEL RAILING KITS					
BALUSTER	LENGTH			COLOR	
Square	5'	6'	8'	10'	White, Earth, Sand
Colonial*	5'	6'	8'	10'	White, Earth, Sand

	DECORATIVE COMPOSITE CAP							
LE	INGT	н	PACKAGING	COLOR				
7′	9′	11′	Boxed	White, Earth				
	16′		16' None			White, Earth		





42″ C	OMMER		IEIGHT STAIR RAILI	NG KITS
BALUSTER	LEN	GTH	ANGLE	COLOR
Square	6'	8'	29-35°, 36-41°	White, Earth, Sand
Colonial*	6'	8'	29-35°, 36-41°	White, Earth, Sand



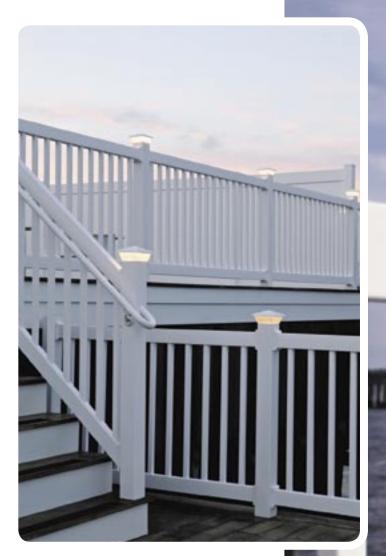
STAIR RAIL KITS

36" RESIDENTIAL HEIGHT STAIR RAILING KITS							
BALUSTER	LENGTH		ANGLE	COLOR			
Square	6'	8'	29-35°, 36-41°	White, Earth, Sand			
Colonial*	6'	8'	29-35°, 36-41°	White, Earth, Sand			
Victorian	6'	8'	29-35°, 36-41°	White, Earth, Sand			









04

 Pictured at right: DECK RAIL level rail installation, without decorative cap.*

Inset: **DECK** RAIL level and stair rail installations, without decorative cap.**

*, **NOTE: Post lights pictured may not be those currently offered by RDI.





Pictured at right: DECK RAIL level rail installation, with decorative cap and Elite Post Cap.

Inset: **DECK** RAIL level rail installation, featuring the bottom rail with Victorian balusters, and Elite Trim Ring.





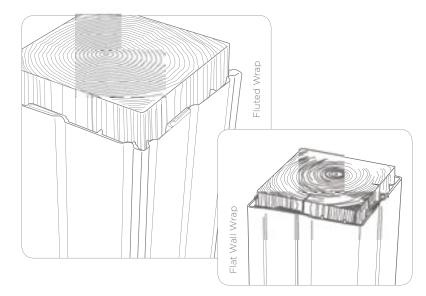
CROSSOVER PRODUCT[™] includes Post Wraps, Post Sleeves, Gates, Caps and Trim Rings, all of which are compatible with Deck Rail and Original Rail, and made from maintenance-free, virgin vinyl. Installing a post wrap requires only two steps: cutting to fit, and snapping the pieces into place. The post sleeve slides over an existing wood post, or the Endurance Structural Post. The decorative post caps and trim rings provide a finished look to your installation. Our complete line of gate kits adds privacy and security to your home.

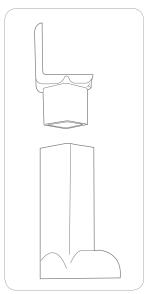


CROSSOVER PRODUCT FEATURES

4-PIECE VINYL POST WRAPS -

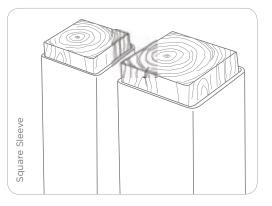
Post wraps install quickly and easily to cover a new or existing wood post. Post wraps are available in the fluted and flat wall design and cover a wide range of adjustable sizes.

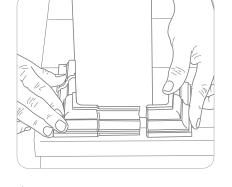




4 2-PIECE SUPPORT FOOT

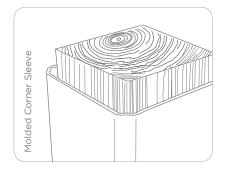
The 2-piece support foot should be added to rail sections 8' or longer to strengthen the installation. The height can easily be adjusted onsite.





DECORATIVE POST TRIM RINGS

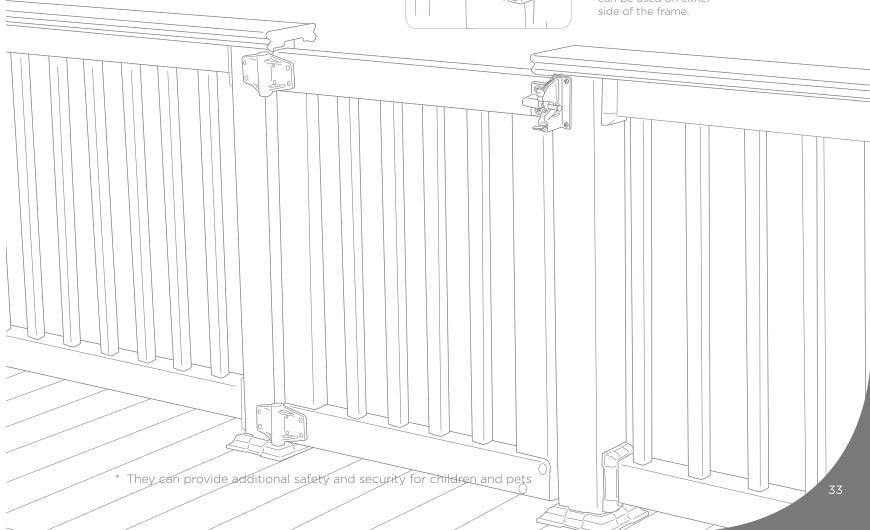
The 1-piece Elite Trim Ring must be fitted prior to installing the railing at the top and base of any $4" \times 4"$ post. The adjustable 4-piece Trim Ring—another RDI innovation—can be installed at any time and is identical to the 1-piece ring. It can be adjusted to fit posts from $3.5" \times 3.5"$ to $6.5" \times 6.5"$ without nails, screws or glue.



◀ VINYL POST SLEEVES

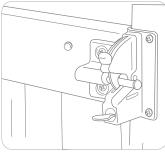
 $4" \times 4"$ and $6" \times 6"$ square vinyl sleeves and $6.5" \times 6.5"$ molded corner sleeves slide easily over Endurance structural posts, wood newels and load-bearing posts.





GATE KITS -

The Endurance line of standard and custom gate kits is the broadest in the industry*. Kits are available for both Original Rail and Deck Rail in square and turned baluster styles. The kits assemble and adjust quickly and easily onsite. Standard gate kits fit a 36" wide, finished opening and can be downsized to accommodate smaller openings. Custom-sized gate kits are available for widths up to 98" (2-48" panels).



HARDWARE KITS

Optional white or black hardware kits are sold separately. They include two hinges and one keyed locking latch with mounting hardware, and are fully adjustable and can be used on either side of the frame.

POST SLEEVES, WRAPS, CAPS, TRIMS AND GATES

POST BASE TRIM RINGS							
STYLE	SIZE	COLOR					
Elite Trim 1-Pc.	4" × 4"	White, Earth, Sand					
New Engalnd Trim 1-Pc.	4" × 4"	White, Earth, Sand					
Round Corner 4-Pc. Adjustable	3.5" to 6.5"	White, Earth, Sand					
Molded Corner 4-Pc. Adjustable	3.5" to 6.5"	White, Earth, Sand					

	POST CAPS						
STYLE	SIZE	COLOR					
Flat Post Cap	4" × 4"	White, Earth, Sand					
Flat Post Cap	6.5" × 6.5"	White, Earth, Sand					
Elite Post Cap	4" × 4"	White, Earth, Sand					
Elite Post Cap	6" × 6" *	White, Earth, Sand					
New England Post Cap	4" × 4"	White, Earth, Sand					
Ball Post Cap	4" × 4"	White, Earth, Sand					

36" RESIDENTIAL HEIGHT STANDARD GATE KITS			
BALUSTER	WIDTH x HEIGHT	COLOR	
Square	34.5" x 34"	White, Earth, Sand	
Turned	34.5" x 34"	White, Earth, Sand	

42" COMMERCIAL HEIGHT STANDARD GATE KITS			
BALUSTER	WIDTH x HEIGHT	COLOR	
Square	34.5" x 40"	White, Earth, Sand	
Turned	34.5" × 40"	White, Earth, Sand	



VINYL SLEEVES			
OUTSIDE DIMENSION LENGTH COLOR			
4" x 4" Square	39", 54", 108"	White, Earth, Sand	
6" x 6" Square*	54", 108"	White, Earth, Sand	
6.5" x 6.5" Molded Corner	54", 108"	White Only	

4-PIECE VINYL POST WRAPS (4 PCS./ BOX)				
STYLE INTERNAL SIZE RANGE LENGTH C				
4" Flat Wall	3 ^{15/16} " to 4 ^{3/8} "	8′, 10′	White, Earth, Sand	
6" Flat Wall	5" to 6"	8′, 10′	White, Earth, Sand	
4" Fluted Wall	3 ^{3/8} " to 4 ^{1/8} "	8′, 10′	White, Earth, Sand	
6" Fluted Wall	5 ^{3/8} " to 6"	8′, 10′	White, Earth, Sand	









 Pictured at right: Detail of Elite Cap.
Inset: Round Column Accessory Bracket kit with ORIGINAL RAIL level rail installation.





 Pictured at right: CROSSOVER PRODUCT 4-piece Flat Wall Post Wrap with Adjustable Trim Ring (installed at base).

Inset: **CROSSOVER** PRODUCT 4-piece Flat Wall Post Wrap with Adjustable Trim Ring (installed at top).



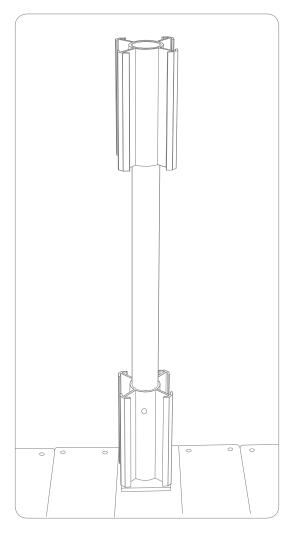


PORCH & NEWEL POST[™] designs capture the elegant style of a turned, painted wood post without the maintenance. Underneath the classic design of the porch post is a load-bearing aluminum column with a capacity of either 2,500 lbs., 5,000 lbs., or 8,500 lbs. Hurricane Lock™ post bases prevent wind uplift, and eliminate roof jacking during installation. 4-piece trim collars install easily to finish the job. Structural Newel Posts are available with flush-mount bases that bolt to any surface, or in thru-deck style for attachment to any structural member. Thru-deck posts can also be used in masonry applications where core mounting is desired.



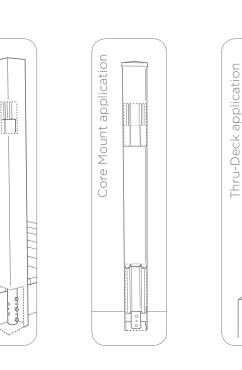
PORCH & NEWEL POST PRODUCT FEATURES

Fascia application



INTERNAL STRUCTURAL POST

A hot-dipped, galvanized schedule 40 post provides structure, while the innovative vinyl extrusion centers the vinyl sleeve or newel. The finned extrusion provides embedment for bracket screws, and transfers the load placed on the railing back to the structure below the deck surface.



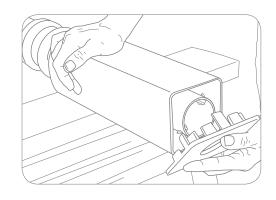
THRU-DECK/FASCIA MOUNT STRUCTURAL POST

This structural post is the strongest and most versatile post in the line. This post can mount to the deck face, inside the deck framing when accessible, or used for core mounting applications in masonry surfaces.

∢ FLUSH MOUNT

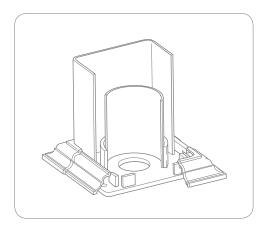
This structural post installs even faster than the others. The 3/8" thick galvanized base flange can be mounted to any wood or masonry surface.

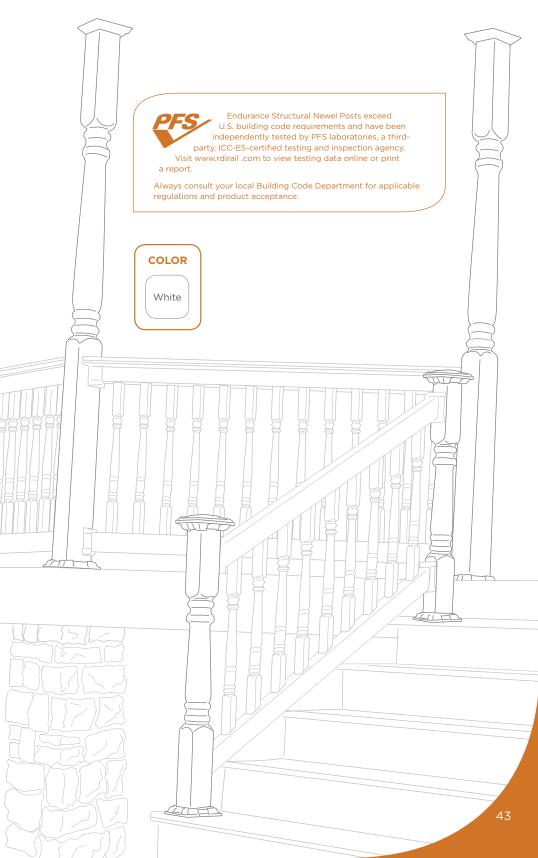
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HURRICANE LOCK AND LOAD-BEARING ALUMINUM COLUMN

Inside every structural porch post is a loadbearing aluminum column with a capacity of 2,500 lbs., 5,000 lbs, or 8,500 lbs. Hurricane Lock post bases prevent wind uplift and eliminate roof jacking during installation. 4-piece trim collars install easily to finish the job.





STRUCTURAL POSTS

TUR	NED STRUCTURAL P
SIZE	BEARII
4" × 4" × 108"	2
5" × 5" × 108"	5,000

O[O]O[



4" x 4" x 48" TURNED STRUCTURAL NEWEL POSTS			
HEIGHT	MOUNT STYLE	COLOR	
36" Residential	Flush, Thru/Fascia/Core	White Only	
42" Commercial	Thru/Fascia/Core	White Only	



PORCH POSTS

ING CAPACITY

2,500 lbs.

lbs., 8,500 lbs.





Pictured at right: DECK RAIL level and stair rail instal-lation, with decorative cap and Elite Cap, featuring Turned Porch and Newel Posts.

Inset: **DECK** RAIL level rail installation, with decora-tive cap, featuring Turned Porch Posts.



HAND RAIL[™] is a highly acclaimed product that provides added safety



CONTINUOUS VINYL HAND RAIL PRODUCT FEATURES



White Powder-Coated Handrail Brackets

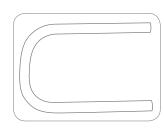
Designed for increased strength and easy installation to any surface.

▼ Adjustable Internal Joiner

Provides continuous, uninterrupted, graspable handrail in any installation by mitreing and glueing in place.

ADA COMPLIANT HANDRAIL COMPONENTS V

The Endurance Hand Rail System consists of six components which can be joined in any configuration to provide ADA compliant graspability on stairs or ramps. The formed vinyl components are easily linked to aluminum-reinforced vinyl lineals with an adjustable internal joiner. The system can be installed onsite without special tools, and mounted to any wall surface or railing material: vinyl, wood or steel.



The ADA compliant loop provides level rail extensions for any stair or ramp.



Handrail and Aluminum Insert

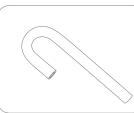
Engineered to add strength and rigidity to the entire installation.

♦ 90° Wall Return

Should be installed at the start or end of wall mounted installations to return the rail to the wall surface.







♦ 90° Corner

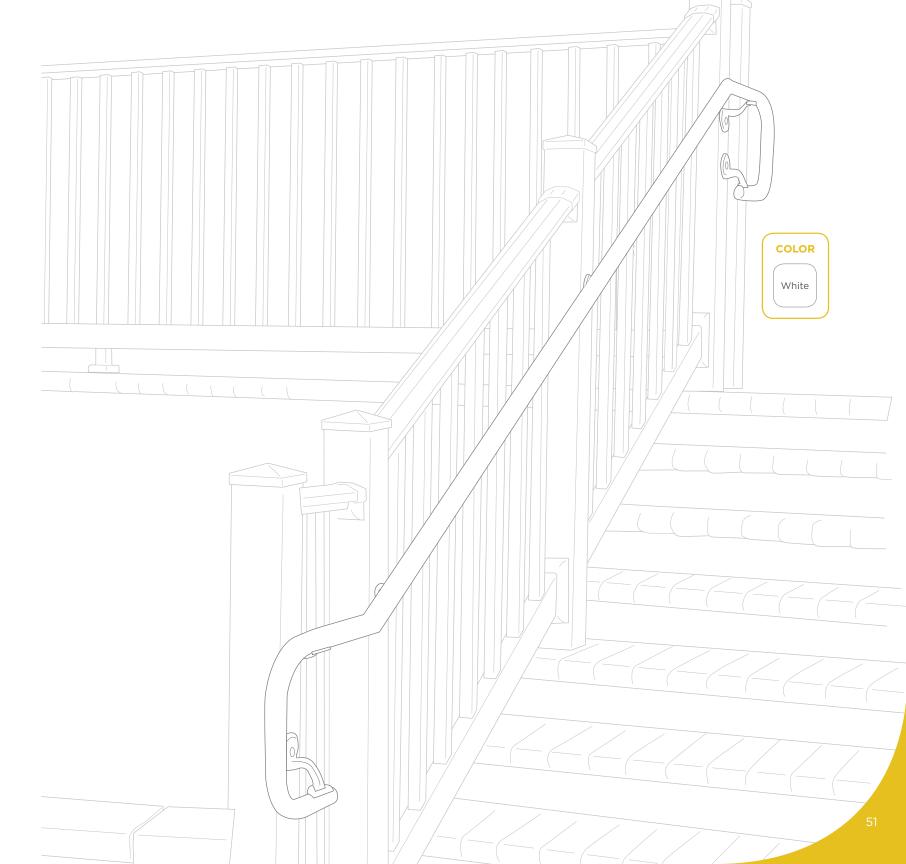
Add to the installation wherever you need a 90° bend, or use as a 90° wall return.

4 90° Corner/End Post

Eliminates joints on ramp landings and can serve as a return to the walking surface,

▲ 180° Post Return

Returns the rail back to the post center line to meet graspability requirements.





LINEALS WITH ALUMINUM INSERTS			
SKU	LENGTH		
EHRH6	6'		
EHRH8	8'		
EHRH10	10'		

1	1/2'	' OD	VI	NY
LINE	ALS	WIT	H /	۱LU

End Loop Wall Return

Corner

Corner/End Post

Post Return

CONTINUOUS VINYL HAND RAIL

FORMED HAND RAIL COMPONENTS

1 ^{1/2}" OD - 18" x 12" x 18"

1 ^{1/2}" OD - 90° 12" x 2 ^{3/4}"

1^{1/2}" OD - 90° 12" x 12" 1 ^{1/2}" OD - 90° 12" x 36"

1 ^{1/2}" OD - 180° 16" x 6"

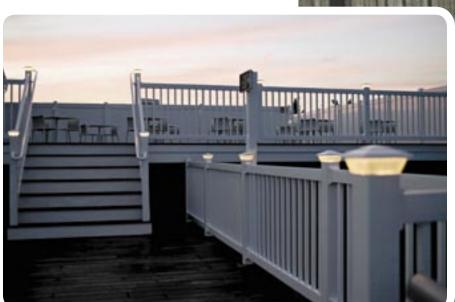












Pictured at right: HAND RAIL and ORIGINAL RAIL installation.

Inset: **DECK** RAIL level and stair rail installation with **HAND** RAIL.*

* NOTE: Post lights pictured may not be those currently offered by RDI.





Pictured at right: HAND RAIL and ORIGINAL RAIL installation.

Inset: Detail of HAND RAIL installation.





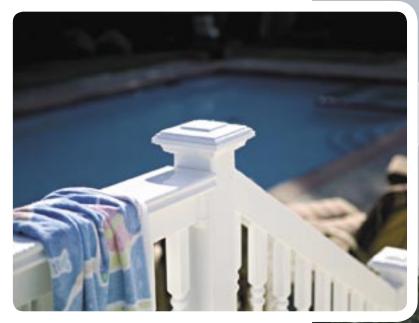


Inset: **DECK** RAIL level and stair rail installation with **HAND** RAIL.**

*, **NOTE: Post lights pictured may not be those currently offered by RDI.







Pictured at right: ORIGINAL RAIL level installation.

Inset: **DECK** RAIL with decorative cap, level and stair installation.



RAILING DYNAMICS, INC. MAINTENANCE-FREE BUILDING SOLUTIONS

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RDI-S-159A/EMPLD

