

1.888.MH.FENCE (toll-free) www.MasterHalco.com www.illusionsfence.com

Available Through



A Tradition of Fencing Solutions

THE SYSTEM



histors VINYL RAILING SYST

Top Rail VRT6/8-3 T-Rail Top VR6/8-3 2" X 3.5" Top

Railing Bracket Kits VR235TRK T-Rail Hand Rail VR235K 2" x 3.5" Hand Rail VRSTRK T-Rail Stair Rail* VRS235K 2" x 3.5" Stair Rail*

Baluster Spacing 19 Spaces of 3.42" (8' Wide) 14 Spaces of 3.42" (6' Wide)

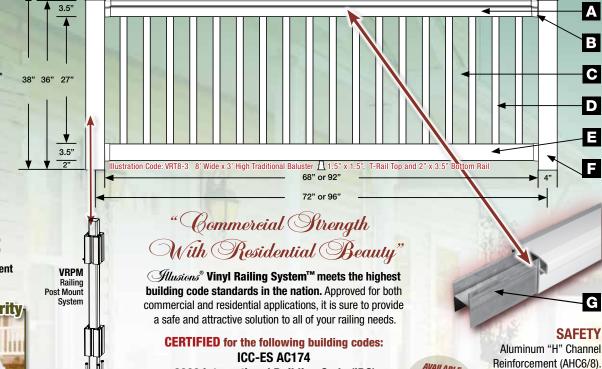
Baluster 18 Balusters (8' Wide) 13 Balusters (6' Wide) of 1.5" x 1.5" or Colonial Spindle Style

Bottom Rail Both Styles 2" X 3.5'

Posts 4" x 4" x 38" (For 36" Height) 4" x 4" x 44" (For 42" Height)

G Aluminum Reinforcement "H"- Channel (AHC6/8)

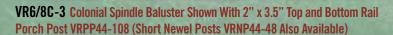




2006 International Building Code (IBC)

2006 International Residential Code (IRC)

1999 BOCA National Building Code





AVAILABLE

36" AND 42"

HEIGHTS

Included in all top rails.

Also fits 2" x 3.5" tops.

Shown in T-Rail.

VR6/8-3 Traditional Baluster 1.5" x 1.5", 2" x 3.5" Top and Bottom Rail

THE SYSTEM





VRT6/8-3
Traditional Baluster 1.5" x 1.5", T-Rail Top and 2" x 3.5" Bottom Rail



VRT6/8C-3
Colonial Spindle Baluster T-Rail Top and 2" x 3.5" Bottom Rail



THE SYSTEM



4 STYLES! WIDTHS! **IN STOCK!** ALL THE TIME!

ASSEMBLED PANELS



VRT6/8-3 - Traditional Baluster 1.5" x 1.5", T-Rail Top and 2"x3.5" Bottom Rail, 6' or 8' Wide



VR6/8-3 - Traditional Baluster 1.5" x 1.5", 2"x3.5" Top and Bottom Rail, 6' or 8' Wide



VRT6/8C-3 - Colonial Spindle Baluster, T-Rail Top and 2"x3.5" Bottom Rail, 6' or 8' Wide



VR6/8C-3 - Colonial Spindle Baluster, 2" x 3.5" Top and Bottom Rail, 6' or 8' Wide

> STAIR RAILS



Also **Available** in 2" x 3.5" Top Rail.

2"x3.5" Bot. Rail, 6'/8' Wide

VRST6/8C-3 Colonial Stair Rail Section, T-Rail Top and 2"x3.5" Bot. Rail, 6'/8' Wide

GATES





HR03

HR04

HR05

Hand Rail Bracket Kit

End Loop 18" x 12" x 18"

90 Degree Corner

VRGC-43

POST CAPS AVAILABLE







SOLAR V55S0

EXTERNAL FLAT V55F0

BALL V55BC

COACHMAN V55CM









PALACE SOLAR

TEARDROP V55TD

GOTHIC V55FG

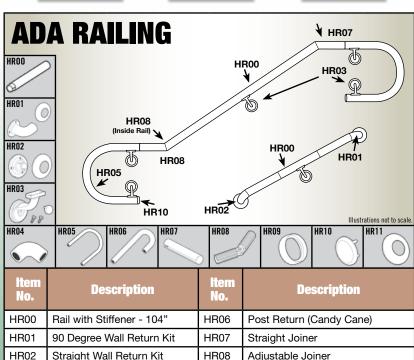
NEW ENGLAND

MIX 'N' MATCH™ COLORS AVAILABLE









HR09

HR10

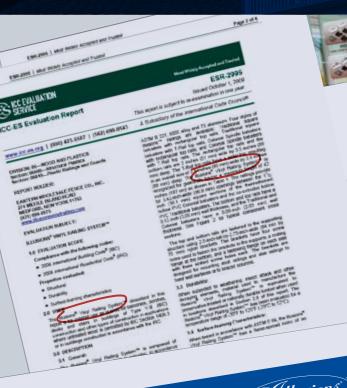
HR11

Joint Ring

Bracket/Wall Return Cover Plate

WEBSITE







Installation Instructions

Tools Needed to Complete Installation:

CHECK THE RAILINGS WEBSITE FORSPEC SHEETS!



RAILINGS

"Illusions" Vinyl Railing System

	1
Top Rail VRT6/8-3 T-Rail Top VRT6/8-3 2" X 3.5" Top	
VRT6/8-3 2" X 3.5" TOP VR6/8-3 2" X 3.5" TOP	
Railing Bracket Kits Railing Bracket Kits VR235TRK T-Rail Hand Rail VR235TRK 2" x 3.5" Hand Rail	
VR235TRK T-Rail Hand Rail VR235K 2" x 3.5" Hand Rail VR235K 2" x 3.5" Hand Rail	

Posts 4" x 4" x 38" (For 36" Height) 4" x 4" x 44" (For 42" Height)

"Commercial Strength

With Residential Beauty"

Sale and attractive solution to an unyou terming treasure.

CERTIFIED for the following building codes:
1.CC-ES ACT4
2.006 International Building Code (IRC)
2.006 International Residential Code (IRC)
1.999 BUCA National Building Code

		Color	MPORTANT NOTE	
RAILINGS	Description	White White	The interigration is get mark, on I set some product The interior being based on most on I set and of the control of	
Item No.	Description	White White		hote
VIIII	3' High his a plut 1-1/2 X and 5" Top and 5" is Wide	White White	12	
VR6-3 VR8-3	3' High Tradition Spindle Pkt., 1-Hair Top and 2"x3.5" Bottom Bail, 6' Wide	White White White	12	1
VRT6C-3 VRT8C-3	* 3' High Colonial Spindle Pkt., 2' x3.5" Top and Bottom Rail, 6' Wide 3' High Colonial Spindle Pkt., 2" x3.5" Top and Bottom Rail, 6' Wide * 3' High Colonial Spindle Pkt., 2" x3.5" Top and 2" x3.5" Bottom Rail, 6' Wide			7
VR6C-3 VR8C-3 VRST6-3	* 3' High Cookins 3' High Traditional Stair Rail Section. 3' High Traditional Stair Rail Section. 3' High Traditional Stair Rail Section. 3' High Cookins 4' High Cookins 5' High Cookins 6' High Cookins	White	12 12 12	コ
VRST8-3 VRS6-3			e 12 te 12	:h TM
VRS8-3	* 3 + High Traditional Star Faal Section 2*x3.5" Footom Rai, 5" Wide 3 + High Traditional Star Faal Section 7*x3.5" Footom Rai, 5" Wide 3 + High Traditional Star Faal Section. Theal Top and 2*x3.5" Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. Tradit Top and 2*x3.5" Bottom Rai, 6" Wide 3 + 3" High Colonial Star Faal Section. 2*x3.5" Top and Bottom Rai, 8" Wide 3 + 3" High Colonial Star Faal Section. 2*x3.5" Top and Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. 2*x3.5" Top and Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. 2*x3.5" Top and Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. 2*x3.5" Top and Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 8" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top and Bottom Rai, 9" Wide 3 + 13" High Colonial Star Faal Section. 2"x3.5" Top	white	Beige, Gray and Mix 'n' Mato	-
VRST8C VRS6C-	-3 * 3' High Colonial Stair Rail Section, I-Phair -3 * 3' High Colonial Stair Rail Section, 2"x3.5" Top and Bottom Rail, 8' Wide -3 * 9' High Colonial Stair Rail Section, 2"x3.5" Top and Bottom Rail, 8' Wide 10% Additional Stair Rail Section, 2"x3.5" Top and Bottom Rail, 8' Wide	101101		



Installation Instructions

Tools Needed to Complete Installation:

• Showing hor • Heart Sc



Musions Fence © 2009 All Rights Reserved

ICC-ES AC174

CRR-0143



ILLUSIONS® VINYL RAILING SYSTEM™ IS FULLY ICC-ES AC174 CERTIFIED

Evaluation Scope

Compliance with the following codes:

- 2006 International Building Code® (IBC)
- 2006 International Residential Code® (IRC)

Properties Evaluated 1CC-ES-2995

• Structural

Durability

• Surface-burning characteristics

Uses

The Illusions Vinyl Railing System™ described in this report is for exterior use as guards for balconies, porches, decks and stairs in buildings of Type V-B (IBC) construction and other types of construction in applications where untreated wood is permitted by IBC Section 1406.3 or in buildings constructed in accordance with the IRC.

Description

The Illusions® Vinyl Railing System™ is composed of polyvinyl chloride (PVC) which is extruded, in accordance with the approved quality control manual, into prefinished railing system components. The system components are available in white, beige or gray.

The Illusions® Vinyl Railing System™ is composed of top rails with aluminum "H" shaped inserts, bottom rails, and either square or colonial-shaped balusters. The inserts are 1.73 inches (43.9 mm) wide by 3.18 inches (80.8 mm) deep, and have 0.07-inch-thick (1.78 mm) flanges and a 0.10-inch-thick (2.54 mm) web. The inserts are made of Aluminum Alloy 6005-T5 meeting ASTM B 221. Four styles of Illusions® railings are available: Traditional square balusters with rectangular top rails; Traditional square balusters with T-Rail top rails; Colonial Spindle balusters with rectangular top rails; and Colonial Spindle balusters with T-Rail top rails. The rectangular top rails and the bottom rails are 2 inches (51 mm) wide by 3.5 inches (89 mm) deep. The T-Rail top rails have a wider top, resulting in an overall size of 3.5 inches (89 mm) wide by 3.5 inches (89 mm) deep. The Illusions® Vinyl Railing System™ is recognized for guardrails having a maximum height of 42 inches (107 cm) as shown in Table 1. The railings provide for 3.42-inchwide (86.9 mm) openings between the 1-1/2 inch (38.1 mm) square sections of the thermoformed hollow PVC Colonial balusters and the co-extruded hollow PVC Traditional balusters. The bottom and top rails have a 0.12-inch (3.05 mm) wall thickness, and the Traditional and Colonial balusters have a 0.08-inch (2.03 mm) wall thickness. See Figure 2 for typical component cross sections.

The top and bottom rails are fastened to the supporting structure using 2.5-inch-tall-by-2.75-inch-wide (64 mm by 70 mm) nylon brackets. The brackets have four screw holes used to fasten the brackets to the supports, a resting flange at the bottom, and a fastening flange on each side with three slotted screw holes each. The brackets are designed for mounting deck railings and stair railings to fixed wall surfaces or to braced columns.

Durability

When subjected to weathering, insect attack and other decaying elements, material used to manufacture the Illusions® Vinyl Railing System™ is equivalent to preservative-treated or naturally durable lumber when used in locations described in Section 2.0 of this report. The Illusions® Vinyl Railing System™ has been evaluated for a temperature range of -20°F to 125°F (-29°C to 52°C).

Surface Burning Characteristics

When tested in accordance with ASTM E 84, the Illusions® Vinyl Railing System™ has a flame-spread index of no greater than 200.

Design and Installation

General: Installation of the <code>Illusions® Vinyl Railing SystemTM</code> must comply with this report and the manufacturer's published installation instructions. A copy of these instructions must be available on the jobsite at all times during installation. When the manufacturer's published installation instructions differ from this report, this report governs

Design: The Illusions® Vinyl Railing System™ is satisfactory to resist the loads specified in IBC Section 1607.7.1 and IRC Table R301.5, when installed at a maximum edge-of-structure-to-edge-of-structure spacing as prescribed in Table 1 of this report.

Installation: The Illusions® Vinyl Railing System™ has been evaluated for installation between two fixed points, such as walls or columns. The top rails must be reinforced with aluminum "H" shaped inserts, which are provided with the rails. The rails must be installed using the mounting plates supplied by Eastern Wholesale Fence Co., Inc., mounted on the supports at the appropriate heights for the bottom and top rails, with four No.10 by 1-1/2 inch-long (38.1 mm) panhead, stainless steel screws per bracket supplied by the manufacturer. The rails must be secured to the mounting brackets with two No. 10 by 3/4-inch (19.1 mm) stainless steel, pan head, self-tapping screws, making sure the screws engage and penetrate through the aluminum "H" shaped inserts. At stairs, the rails are installed in the same manner, with the bottom rail installed 2 inches above the risers. The attachment method described above for brackets to supports is for fasteners embedded into a wood substrate having a specific gravity of 0.50 (minimum), to a minimum depth of 1-3/8 inches (34.9 mm). Additional attachment methods are outside the scope of this report and are required to be submitted to the code official for approval. See Figure 1 for typical railing system installation.

Conditions of Use

The Illusions® Vinyl Railing System™ described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

The Illusions® Vinyl Railing System™ described in this report is limited to exterior use as guards for balconies, porches, decks and stairs in buildings of Type V-B (IBC) construction and other types of construction in applications where untreated wood is permitted by IBC Section 1406.3, or in buildings constructed in accordance with the IRC.

Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. Only those fasteners and fastener configurations described in this report have been evaluated for the installation of the Illusions® Vinyl Railing System™. When the manufacturer's published installation instructions differ from this report, this report governs.

The determination of compatibility of the fasteners, metal post mount components and other metal hardware with the supporting construction, including chemically treated wood, is subject to approval by the code official.

- 5.4 Adjustment factors outlined in the AF&PA National Design Standard and applicable codes must not apply to the allowable capacity and maximum spans for the Illusions® Vinyl Railing System™.
- 5.5 The Illusions® Vinyl Railing System™ must be fastened directly to supporting construction. Where required by the code official, engineering calculations and construction documents consistent with this report must be submitted for approval. The calculations must verify that the supporting construction complies with applicable building code requirements and is adequate to resist the loads imparted upon it by the products and systems discussed in this report. The documents must contain details of the attachment to the supporting structure consistent with the requirements of this report. The documents must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.6 The top rail of the Illusions® Vinyl Railing System™ must not be permitted to be used as a handrail for stairways or ramps.
- 5.7 Posts are outside the scope of this report.
- 5.8 The Illusions® Vinyl Railing System™ components are produced in Calverton, New York, under a quality control program with inspections by Architectural Testing, Inc. (AA-676).

Evidence Submitted

Data in accordance with the ICC-ES Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails) (AC174), dated February 2008 (editorially revised April 2008).

TABLE 1 — MAXIMUM GUARDRAIL SYSTEM SPANS ¹					
	GUARDRAIL Type	APPLICABLE BUILDING CODE ²		MAXIMUM	
GUARDRAIL SYSTEM		IBC	IRC	SPAN ^{3,4} (Inches)	
Colonial balusters with maximum 42-inch-high	Level	Yes	Yes	92	
Rectangular or T-Rail top rail	Stair	Yes	Yes	87.5	
Traditional balusters with maximum 42-inch-high	Level	Yes	Yes	92	
Rectangular or T-Rail top rail	Stair	Yes	Yes	87.5	

- 1 The ability of the supporting construction to resist the reaction from guardrail loads must be justified to the satisfaction of the code official.
- 2 Indicates compliance with the respective building codes.
- 3 Maximum allowable span has been adjusted for durability. No further increases are permitted.
- 4 Maximum span is measured from edge-of-support-to-edge-of-support. It is recommended that separate specimens be used for each exposure time.

ASTM F964-09



WHAT IS ASTM F964-09?

Scope

ASTM F964-09 is considered one of the "end all, beat all" testing specification for vinyl railing and fence quality. The purpose of this specification is to establish a recognized standard of quality for exterior vinyl profiles for use in assembling agricultural, commercial, and residential fencing and railing. This specification covers Illusions® Vinyl Railing System™ sections and the EverStrong® Profiles used to fabricate them.

Materials

Illusions® Vinyl Railing System™ Products are manufactured using rigid poly vinyl chloride (PVC) compounds for exterior-profile extrusions that meet the requirements of ASTM Specification D4216.

Manufacture

Illusions® Vinyl Railing System™ Products are manufactured to meet cell Class 1-32333-3 as defined in Specification D4216. Illusions® compounds have higher cell classification because one or more properties are superior to those used in standard acceptable compounds.

Color/Consistency Testing – The PVC compound in extruded section shall maintain uniform color and be free of any visual surface or structural changes, such as peeling, chipping, cracking, flaking, or pitting after weathering at intervals of six months and one year for white and for six months, one year, and two years for all other colors in hot, dry climate such as Phoenix, AZ; a hot humid climate, such as Miami, FL; and a temperate northern climate, when tested in accordance with ASTM Performance Weathering Requirements (TABLE 1).

Weathering Testing – The PVC compound shall have a minimum impact resistance of 0.6 in.-lb/mil (2670 J/m) after weathering six months and one year in a hot, dry climate such as Phoenix, AZ; a hot, humid climate, such as Miami, FL; and a temperate northern climate, when tested in accordance with ASTM Performance Weathering Requirements. The PVC compound shall have successfully met the weathering requirements prescribed for six months at each climatic testing site prior to use in production of exterior-profile extrusions, when tested in accordance with ASTM Performance Weathering Requirements (TABLE 1).

ASTM Specifications Met

D256 – To determine Izod impact properties

D618 - Practice for Conditioning Plastics for Testing

D635 – Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position

D638 - To determine tensile properties

D648 - To determine heat distortion temperature

D696 – Test Method for Coefficient of Linear Thermal Expansion of Plastics Between Ø30°C and 30°C with a Vitreous Silica Dilatometer

D790 - To determine flexural properties

D792 – To determine specific gravity

D883 - Terminology Relating to Plastics

D1435 – Practice for Outdoor Weathering of Plastics

D1600 Terminology for Abbreviated Terms Relating to Plastics

D1784 – Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

D7032 - Standard Specification for Establishing: Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)

D1761 – Standard Test Methods for Mechanical Fasteners in Wood: Used to test rail mounting brackets in PVC sleeved pressure treated wood posts.

D1898 - Practice for Sampling of Plastics

D2240 – To determine Shore hardness values

D2244 – Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates

D2565 – Practice for Xenon-Arc Exposure of Plastics Intended for Outdoor Applications

D4216 – Material Class Number1-32333-3. To establish Cell Classification of PVC material. Illusions compounds have higher cell classification because one or more properties are superior to those used in standard acceptable compounds

D4226 - Test Methods for Impact Resistance of Rigid

Poly-(Vinyl Chloride) (PVC) Building Products

D4726 – Specification for Rigid Poly(Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors

E-84-04 – Used to determine the flame spread value of PVC material; **Illusions®** burn rate is significantly lower than allowed value

Quality Assurance

Illusions® Vinyl Railing System™ Products are run through a series of dimensional and color tests that are performed at least every two hours. Testing includes; flattening, extrusion quality, impact resistance, warp, color comparison with standard color samples, capstock thickness, and bond testing. All will be done at the startup of a production and once per shift thereafter with a minimum of two tests per 24 hours of production.

TABLE 1 - Required Exposures for PVC Extrusions - In Process

	FV	LAC EXILAZIONS - IN LIACE22			
	Color of PVC Extrusions	Exposure Climate	Required Exposure Times, Months*		
	White	hot,dry (Phoenix, AZ)	6 and 12		
W		hot, humid (Miami, FL)	6 and 12		
		northern temperate	6 and 12		
		hot, dry (Phoenix, AZ)	6, 12 and 24		
	Any other color	hot, humid (Miami, FL)	6, 12 and 24		
		northern temperate	6, 12 and 24		

It is recommended that separate specimens be used for each exposure time.







Installation Instructions

Tools Needed to Complete Installation:

- Measuring Tape
- Wrench Set
- Pencil
- Phillips Head Screwdriver or Screwdriver Bits
- Circular Saw With Carbide Tip Multi-purpose Blade
- 2" Wood Blocks for Ease of Determining Height of Sections

The following instructions will guide you through the AC174 approved installation of your new "Illusions® Vinyl Railing System™. Testing was performed to evaluate compliance with ICC-ES AC174, Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails) which is ICC-ES acceptance criteria for recognition of compliance with the following building codes:

- ICC-ES AC174
- 2006 International Residential Code (IRC)
- 2006 International Building Code (IBC)
- 1999 BOCA National Building Code

ICC-ES-2995 CCRR-0143

This installation guide is a recommendation for meeting most code requirements. Always check your local building codes before starting a project and for determining the acceptable installation practices of your area. Read assembly instructions completely before beginning construction. Always wear protective goggles and gloves when installing a vinyl railing system.

IMPORTANT NOTE:

- When installing brackets to post mounts, use 1 inch screws provided.
- When installing brackets to vinyl sleeved over wood, use 1-1/2 inch screws provided.
- When securing rails to brackets, use 3/4 inch screws provided for all applications.



TOOLS NEEDED

 Cut off saw with fine tooth blade, and/or a · Circular saw with a carbide tip multi-purpose blade

Illusions® Vinyl Post Sleeve Over Wood Posts

Typically, square 4" x 4" support posts are placed according to the length of railing desired and extend through the deck and then are cut to a height to receive the railing post. Square vinyl posts are then slid over the wooden posts, ready for railing sections to be installed.

• 1/2" Masonry drill bit (if mounting a post on concrete) . #2 Square drive screwdrivers or screwdriver bits A wrench set A level 25' Measuring tape Staging blocks to determine the height of the railing; 2" for 36" and 42" railing heights

IMPORTANT NOTE Installer must consult local code officials for compliance to building code requirements.

"Illusions"

Wood Post Mount Installation Instructions for VRPM436 and VRPM442 with VRPMHW

- STEP 1 Lay out the location of the post.
 - Install at least 3" of blocking under the mounting location. Securely attach the blocking using reinforcement screws.
- STEP 2 Using the leveling plate as a template, mark the locations of the 4 mounting holes to be drilled.
 - Drill 4 holes through the decking and blocking using a 3/8" diameter drill bit.
- STEP 3 Install the 4 leveling bolts into the post mount member.
 - Place the leveling plate on the decking surface and align over the (4) drilled holes.
 - Place the post mount member on top of the leveling plate and align the (4) holes.
 - Adjust the leveling screws to ensure the post mount member is level.
- STEP 4 Install the 4 mounting bolts with washers as shown.
 - On the underside, place the back plate over the exposed mounting bolts. (Use the centered holes for in-line applications and the offset holes for corner applications).
 - Secure the back plate by using the supplied mounting nuts and washers
- STEP 5 Install the two guide blocks onto the post mount member. They should be positioned so that the screws from the railing brackets will screw into the guide blocks.
 - Once the proper heights are established, drill a 1/8" dia. hole through both the guide block and the post mount member. Install the supplied guide block screws to hold the guide blocks in place.
- STEP 6 Install the post profile and rail brackets according to **Illusions®** specifications.

Product Descriptions VRPM436: Railing Post 4"x 4"x 36" VRPM442 Railing Post Mount 4"x 4"x 42" POST MOUNT MEMB VRPMHW-Post Mount Hardware GUIDE BLOCK SCREW MOUNTING BOLTS (4) LEVELING BOL LEVELING PLATE BACK PLAT

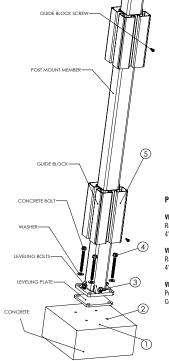
IMPORTANT NOTE:

Installer must consult local code officials for compliance to building code requirements.



Illusions® Concrete Post Mount Installation Instructions for VRPM436 and VRPM442 with VRPMHC

- STEP 1 Lay out the location of the post.
- STEP 2 Using the leveling plate as a template, mark the locations of the 4 mounting holes to be drilled.
 - Drill 4 holes into the concrete using a 1/4" diameter masonry drill bit. The hole must be drilled to a minimum depth of 3-1/2".
 - Clean out the holes of all dust and debris.
- STEP 3 Install the 4 leveling bolts into the post mount member.
 - Place the leveling plate on the concrete surface and align over the (4) drilled holes.
 - Place the post mount member on top of the leveling plate and align the (4) holes.
 - Adjust the leveling screws to ensure the post mount member is level.
- STEP 4 Install the 4 concrete bolts with washers as shown by applying downward pressure while turning in a clockwise direction.
 - Continue to tighten the bolts until the heads are firmly seated. (Do not over tighten).
- STEP 5 Install the two guide blocks onto the post mount member. They should be positioned so that the screws from the railing brackets will screw into the guide blocks
 - Once the proper heights are established, drill a 1/8" dia. hole through both the guide block and the post mount member. Install the supplied guide block screws to hold the guide blocks in place.
- STEP 6 Install the post profile and rail brackets according to "Illusions" specifications.



Product Descriptions:

VRPM436: Railing Post

VRPM442: Railing Post Mount 4"x 4"x 42"

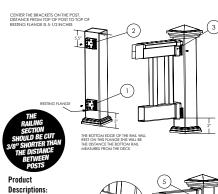
Post Mount Hardware -

IMPORTANT NOTE:

Installer must consult local code officials for compliance to building code requirements.

Alusions Straight Railing Bracket System Install Instructions for VR235K and VR235TRK

- STEP 1 Using four (4) of the provided VRSSK screws (1 inch screws for post mount applications and 1-1/2 inch screws for vinyl sleeve over wood post applications), install the lower mounting plate to the post. The Mounting Plates should be centered on the post and the resting flange should be at the required height from the deck which is 2 inches.
- STEP 2 Repeat Step 1 for installation of upper Mounting Plate. The distance between the top of the post to the top of resting flange is 5-1/2 inches. Repeat steps 1 and 2 on opposite Post.
- STEP 3 Slide the bracket covers onto the railing section. Install the pre-assembled railing section into the mounting plates. Making sure that the rails sit on the resting flanges.
- STEP 4 Install two (2) of the supplied 3/4 inch side screws into each mounting plate (one on each side) using the best slot location making sure that the screws engage into the aluminum H-channel (Code#-AHC6/8) in the rail. The mounting plates are slotted to allow for thermal expansion and contraction.
- STEP 5 Slide the covers towards the post until they snap onto the mounting plates. You will hear an audible "click."
- STEP 6 Choose any decorative post cap and footblock styles.

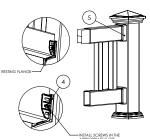


VR235K 2"x 3.5" Hand Rail Bracket Kit (4 Pc.) Also available in: Beige (VR235KBG)

Gray (VR235KGY)

VR235TRK:

T-Rail 2"x 3.5" Rail Bracket Kit (2 of ea.) Also Available in: Beige (VR235TRKBG) Grav (VR235TRKGY)

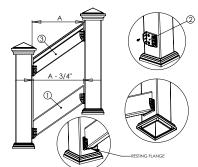


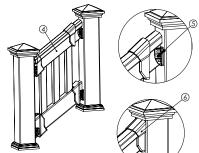


Illusions® Stair Railing Bracket Installation for

VRS235K or VRSTRK

- STEP 1 Cut top and bottom rail to desired length and angle to match the stair angle and the distance between the stair posts minus 3/8". Place a mounting bracket on each end of the rail, make sure the bottom rail sits on the resting flanges. Temporarily place into position at the desired distance above tread risers. The Mounting plates should be centered on the post and the resting flange should be at the required height from the risers which is 2 inches. Mark locations of the bottom of each mounting bracket and remove the section.
- STEP 2 Using Four (4) of the provided VRSSK screws (1 inch screws for post mount applications and 1-1/2 inch screws for vinyl sleeve over wood post applications), install the lower mounting plate to the post. The Mounting plates should be centered on the post and aligned with the locations marked in Step 1.
- STEP 3 Repeat step 1 and 2 for upper rail. The distance between the top of the post to the top of resting flange is 5-1/2 inches.
- **STEP 4** Slide the bracket covers onto the railing section. Install the pre-assembled *Allusions* railing section into the mounting plates. Making sure that the rails sit on the
- STEP 5 Install two (2) of the supplied 3/4 inch side screws into each mounting plate (one on each side) using the best slot location making sure that the screws engage into the aluminum H-channel (Code#-AHC6/8) in the rail. The mounting plates are slotted to allow for thermal expansion and contraction.
- STEP 6 Slide the covers toward the post until they snap onto the mounting plates. You will hear an audible "click."
- STEP 7 Choose any decorative post cap and footblock styles.







Product Descriptions:

VRS235K: 2"x 3.5" Stair Rail

Bracket Kit (4 Pc.) Also available in: Beige (VRS235KBG) Gray (VRS235KGY)

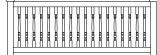
VRSTRK:

T-Rail 2"x 3.5" Stair Rail Bracket Kit (2 of ea.) Also Available in: Beige (VRS235TRKBG) Gray (VRS235TRKGY)



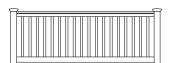


VR6/8-3 - Traditional Baluster 1.5" x 1.5", 2"x3.5" Top and Bottom Rail, 6' or 8' Wide

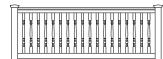


VR6/8C-3 - Colonial Spindle Baluster, 2" x 3.5" Top and Bottom Rail, 6' or 8' Wide

QuickShip^m **Assembled Panels** In Stock All The Time



VRT6/8-3 - Traditional Baluster 1.5" x 1.5" T-Rail Top and 2"x 3.5" Bottom Rail, 6' or 8' Wide



VRT6/8C-3 - Colonial Spindle Baluster, T-Rail Top and 2"x3.5" Bottom Rail, 6' or 8' Wide





VRST6/8-3 Traditional Stair Rail Section, T-Rail Top and 2"x 3.5" Bot. Rail. 6'/8' Wide



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