

Why Illusions Vinyl Railing System?

Because You're Awesome and Deserve the Very Best!

You've done everything in your power to be awesome. Why would you settle for less from your railing? You wouldn't. That's why Illusions Vinyl Railing System is the perfect fit for your next railing installation. It's got everything you need all rolled up into a simple and affordable package.

Our company is based on Long Island, NY, and we have been manufacturing and distributing fence and railing products for almost 50 years. We're sure you've heard of the incredibly popular "Illusions Vinyl Fence" brand of color and woodgrain PVC vinyl fence products. Well the railings are great too! Nobody, but nobody has more PVC color and woodgrain PVC vinyl railing & fence options.

Designed with the sole purpose of allowing your creativity to flow, Illusions Vinyl Railing System, Grand Illusions Color Spectrum, and Grand Illusions Vinyl Woodbond Series of color and woodgrain vinyl products are the next step in the evolution of a product. Never before has this been done with such a grand degree of choices.

With 35 principle colors, completely authentic woodgrains, and the ability to match any color of your choosing, you now have the perfect solution for your deck and railing. The Landscape, Estate, and Vinyl WoodBond Series all have a low gloss matte finish.

Imagine yourself painting your house tan with a plum trim and burgundy accents. Now you can Mix 'n' Match your Illusions Vinyl Railing with Burgundy Rails, Vintage Wine Posts and Tan Balusters. The possibilities are endless!

To really see what you are capable of, check out the Illusions Railing Design Center at www.illusionsvinylrailing.com. Grab a cup of coffee and come play! It's so easy, you'll be printing out a Grand Illusions Color Spectrum job to give to your local Illusions Railing Professional in minutes!

www.illusionsvinylrailing.com



Why Illusions Vinyl Railing System?

From the tallest skyscraper to your front porch, Illusions Vinyl Railing System is the perfect choice for your next railing installation. Made of 100% Pure Virgin Vinyl, all styles are available in 35 colors and 5 wood grains.



Vinyl Manufacturer's Association CertifiedBeing a part of the VMA adds value to the fabricators, distributors, and contractors that

become licensed to sell certified products by VMA members.



TCC-ES AC174 Certified

ICC-ES AC174 is the industry accepted criteria for recognition of compliance with the following building codes: 2012 International Residential Code (IRC), 2012 International Building Code (IBC), and 1999 BOCA National Building Code.



ASTM 7964-13 Compliant

ASTM F964-13 is considered the most recognized testing specification for vinyl. 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.



Ready to Specify

All Illusions Vinyl Railing System styles are available on www.CADDetails.com to help you immediately specify for commercial and residential installations. Spec sheets, CAD files, PDFs and more are ready to help you get your Illusions Railings installed today!



Made in the U.S.A.

The company manufacturing Illusions Vinyl Railing System has been in the railing and fence manufacturing industry for almost 50 years. Illusions Railing is proudly manufactured in the United States of America.

www.illusionsvinylrailing.com



Grand WOODBOND Mix 'n' Match™ 35 Brilliant Colors and 5 Incredibly Life-like Woodgrains of

100% Pure Virgin Vinyl Illusions® Fence

Come See the Options and Create Your Own Designer Fence!

> Download the "ILLUSIONS FENCE DESIGNER" from your app store today!



Infinite Combinations Mix 'n' Match™ Colors Woodgrains GoofProofJobs™ • Save Your Projects



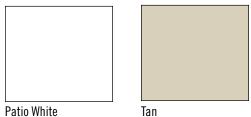


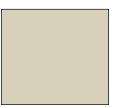
Landscape Series

Featuring 8 colors, the Grand Illusions Color Spectrum™ Landscape Series is custom designed to match most exterior railing applications. All low gloss matte finish.



VRT6/8-3 3' Height Traditional Picket 1.5" x 1.5". T-Rail Top Rail and 2" x 3.5" Bottom Rail in Black (L105).





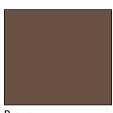


Seacoast Gray



Eastern Green



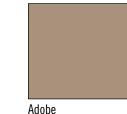


Brown

C101



Barn Red



Classic Series

"The Series That Started it All" 100% Pure Virgin Co-Extruded vinyl. The original Illusions® Vinyl Fence product. High Gloss.

ICC-ES AC174 Certified • ASTM F964-13 Compliant



Beige C102





Estate Series

24 low gloss colors make up the Grand Illusions Color Spectrum™ Estate Series. Chosen from many of the most popular exterior accent colors. Perfect for matching siding, shutters, trim, and a multitude of other applications. All low gloss matte finish.







Colonial Yellow



Slate Gray



Evergreen



Brick Red



Burgundy



Antique White



Brownstone E112



Sahara

E107

Prairie Dust Sky Blue E113



E109

Sage

Midnight Blue E116



E117

Hunter Green E118



Mahogany W101



Completely Lifelike!

See For Yourself!



VRFT6/8-3 3' Height Traditional Picket 1.5" x 1.5", Flat T-Rail Top Rail and 2" x 3.5" Bottom Rail in Grand Illusions Vinyl WoodBond Walnut (W103).



Walnut W103



W104

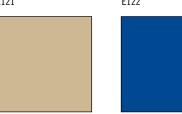


Bordeaux E119



Forest Green

Vintage Wine Seafoam Green



Desert Sand Dark Royal Blue E123



Designer Series

GRAND ILLUSIONS

THE MOST REALISTIC VINYL **WOODGRAIN IN THE INDUSTRY!**

With the unmatched detail of real wood and the maintenance

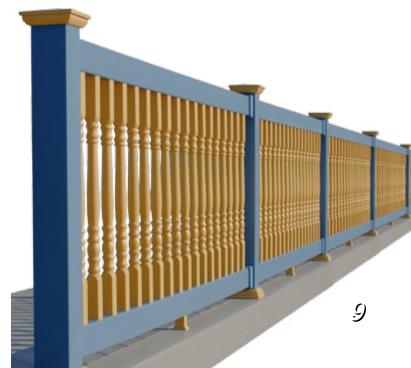
free advantage of vinyl, you are sure to fall in love with the Grand Illusions Vinyl Woodbond™ woodgrain vinyl railing. All low gloss

matte finish.

Need a custom color? Give us your swatch and we'll match it! The Grand Illusions Color Spectrum™ Designer Series allows you to match any color. This creates limitless color possibilities for any railing application. This is also available with Mix 'n' Match™.

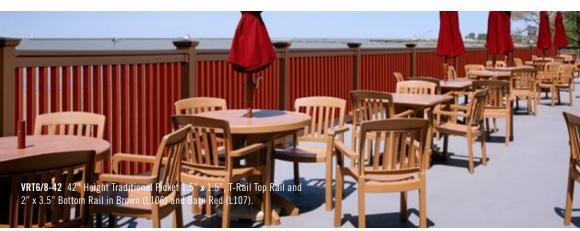


Color swatches shown are approximate. See physical sample for actual color.



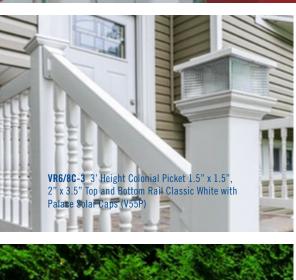


















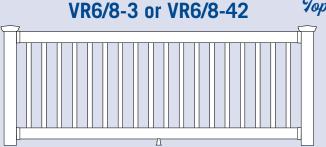






Wasions Railing System Railing System

"Commercial Strength With Residential Beauty"



3' or 42" Height Traditional Pkt. 1.5" x 1.5", 2"x3.5" Top and Bottom Rail, 6' or 8' Wide NOTE: 3' Height Classic White (C101) Available in QuickShip

Top-Rail Styles

2" x 3.5"

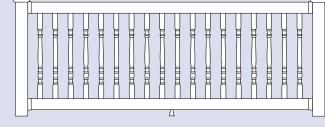
Top Rail

T-Rail

Top Rail

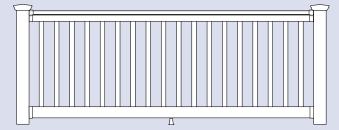
Top Rail

VR6/8C-3 or VR6/8C-42



3' or 42" Height Colonial Spindle Pkt., 2" x 3.5" Top and Bottom Rail, 6' or 8' Wide NOTE: 3' Height Classic White (C101) Available in QuickShip

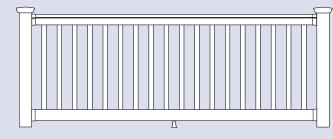
VRT6/8-3 or VRT6/8-42



3' or 42" Height Traditional Pkt. 1.5" x 1.5", T-Rail Top and 2"x 3.5" Bottom Rail, 6' or 8' Wide NOTE: 3' Height Classic White (C101) Available in QuickShip

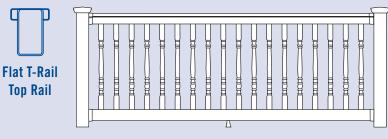
3' or 42" Height Colonial Spindle Pkt.,

VRFT6/8-3 or VRFT6/8-42



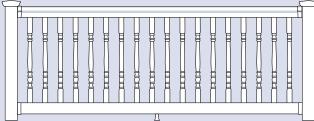
3' or 42" Height Traditional Pkt. 1.5" x 1.5", Flat T-Rail Top and 2"x 3.5" Bottom Rail, 6' or 8' Wide

VRFT6/8C-3 or VRFT6/8C-42



3' or 42" Height Colonial Spindle Pkt., Flat T-Rail Top and 2"x3.5" Bottom Rail, 6' or 8' Wide

VRT6/8C-3 or VRT6/8C-42



T-Rail Top and 2"x 3.5" Bottom Rail, 6' or 8' Wide NOTE: 3' Height Classic White (C101) Available in QuickShip

VR6/8-3 2" X 3.5" Top VRFT6/8-3 Flat T-Rail Top

Top Rail

VRT6/8-3 T-Rail Top

3.5"

3.5"

VRPM

Railing

System

Post Mount

38" 36" 27"



Picket Spacing 20 Spaces of 3.375" (8' Wide) 15 Spaces of 3.4" (6' Wide)

Ilustration Code: VRT8-3 8' Wide x 3' High Traditional Picket 1.5" x 1.5", T-Rail Top and 2" x 3.5" Bottom Rail

"Hlusions" Vinyl Railing System™ meets the highest

building code standards in the nation. Approved for both

commercial and residential applications, it is sure to provide a

safe and attractive solution to all of your railing needs.

Certified for the following building codes:

ICC-ES AC174 2012 International Building Code (IBC)

2012 International Residential Code (IRC)

1999 BOCA National Building Code

Pickets 19 Pickets (8' Wide) 14 Pickets (6' Wide) of 1.5" x 1.5" or **Colonial Spindle Style**

Availabl

Bottom Rail

All Styles 2" X 3.5"

Posts

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

Aluminum Reinforcement "H"- Channel (AHC6/8/10)



Reinforcement (AHC6/8/10).

Included in all top rails.

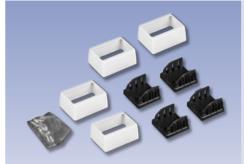
Shown in T-Rail. Also fits 2" x 3.5" tops (Optional for Bottom Rail)

15

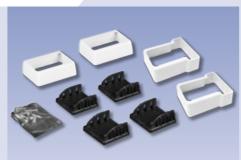
Accessories



Simple to order matching accessories for your Illusions Vinyl Railing System.



VR235K 2" x 3.5" HAND RAIL KIT



FLAT T-RAIL HAND RAIL 2" x 3.5" KIT

VRFTRK



VR235TRK T-RAIL HAND RAIL 2" x 3.5" KIT



VRS235K 2" x 3.5" STAIR RAIL KIT



VRSFTRK FLAT T-RAIL STAIR RAIL KIT



VRSTRK T-RAIL STAIR RAIL KIT

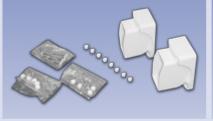


VRM235AH

RAIL MOUNT BRACKETS 2" X 3.5" ADJUSTABLE HORIZONTAL

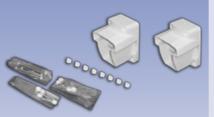
VRMTRAH

RAIL MOUNTS BRACKET T-RAIL ADJUSTABLE HORIZONTAL



VRM235AV

RAIL MOUNT BRACKETS 2" X 3.5" **ADJUSTABLE VERTICAL**



VRMTRAV

RAIL MOUNTS BRACKET T-RAIL ADJUSTABLE VERTICAL



EXTERNAL FLAT V44F0

TEARDROP

V44TD



NEW ENGLAND V44NE

COACHMAN

V44CM



BALL V44BC



V44FG







SOLAR



PALACE SOLAR



VRT45AK T-RAIL 45° ADPT. KIT



VR23545AK 2" x 3.5" 45° ADPT. KIT



VRTRRAK T-Rail X 8" Round Column Adaptor Kit



VR235RAK 2" X 3.5" RL X 8" Round Adaptor Kit

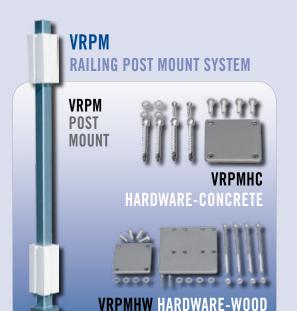


VRNP44-48 4" x 4" x 48"

NEWEL POST



VRPP44-108 4" x 4" x 108" **PORCH POST**





VRFBK 3 PIECE FOOT BLOCK KIT



V44PS 4" x 4" POST SKIRT



17 16

Certifications

CCRR-0143



Specifications



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

Evaluation Scope

Compliance with the following codes:

- 2012 International Building Code® (IBC)
- 2012 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 Illusions® Vinyl Railing System™ 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

Conditions of Use

system installation.

The Illusions® Vinyl Railing System $^{\text{TM}}$ 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 IBC

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 May 2012 (editorially revised May 2012).

| 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 Rectangular or T-Rail top rail | Level | Yes | Yes | 92 | | | |
| | Stair | Yes | Yes | 87.5 | | | |
| Traditional balusters with maximum 42-inch-high Rectangular or T-Rail top rail | Level | Yes | Yes | 92 | | | |
| | 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.

WHAT IS ASTM F964-13?

Scope

ASTM F964-13 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 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

450 Hrs.

Quality Assurance

Illusions® Vinyl Railing SystemTM 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

| Color of PVC Extrusions | Exposure Climate | Required Exposure Times, Months* | |
|-------------------------------|------------------------|--|--|
| White | hot,dry (Phoenix, AZ) | 6 and 12 | |
| | hot, humid (Miami, FL) | 6 and 12 | |
| | northern temperate | 6 and 12 | |
| Any other color | hot, dry (Phoenix, AZ) | 6, 12 and 24 | |
| | 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.



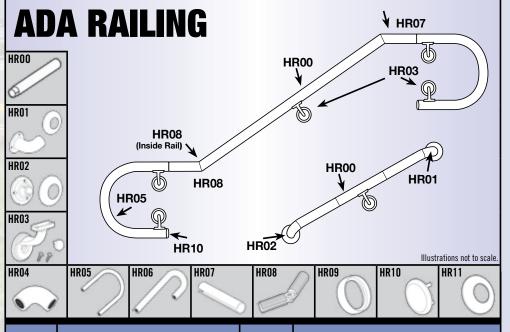
The VMA, (Vinyl Manufacturers Association), is the Voice of the Vinyl Fence and Railing Industry and this is their certification logo. VMA Certified Illusions Vinyl Fence products meet or exceed industry standards.

1000 Hrs.

The Glusions Vinyl Railing System™ Advantage This test is run according to ASTM Standard 6-155, Cycle #1. All Illusions® Vinyl Railing products are guaranteed to be made from 100% Pure Virgin Vinyl and assembled according to ASTM F964. Please note the difference in color retention and be assured, Illusions® Vinyl Railing System™ will have uniformed color and be free of any visual surface or structural changes such as: Peeling, chipping, cracking, flaking, or pitting after weathering. Be assured! Insist on Glusions® Vinyl Railing Products. Competitor: Illusions®:

ADA Railing

Our **ADA Railing System** allows you to create a continuous code compliant handrail on any stair or ramp. The ADA secondary handrail system can be easily installed on site without any special tools. It can be mounted to any wall surface or railing; vinyl, wood, composites, steel, concrete, or aluminum.



| Item No. | Description | Item No. | Description |
|-------------|----------------------------|-------------|---------------------------------|
| HR00 | Rail with Stiffener - 104" | HR06 | Post Return (Candy Cane) |
| HR01 | 90 Degree Wall Return Kit | HR07 | Straight Joiner |
| HR02 | Straight Wall Return Kit | HR08 | Adjustable Joiner |
| HR03 | Hand Rail Bracket Kit | HR09 | Joint Ring |
| HR04 | 90 Degree Corner | HR10 | Rail End Cap |
| HR05 | End Loop 18" x 12" x 18" | HR11 | Bracket/Wall Return Cover Plate |

- 1-1/2" O.D. (Outside Dimension) vinyl meets the "Americans with Disabilities Act" graspability requirements.
- Unique adjustable internal joiner accommodates any transition, stair or ramp angle.
- Easy installation.
- Fasteners are hidden creating an improved look over other available ADA systems.
- ADA railing is available in White, Khaki, Black, Almond, and Acorn.
- The interior rail stiffener is an engineered aluminum providing maintenance free strength and durability.
- Can be installed in any stair or ramp configuration; continuously or interrupted.
- Mounts to any wall surface to provide code compliant graspability.
- Cast aluminum components are color matched powder coated for a durable finish.



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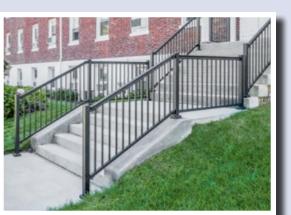
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