



**ITEM #2: For the ARCHITECTURAL COMMISSION; April 20, 2015 @ 7:00 P.M.**

**REQUEST:** Consideration of a request for structural modifications (composite replacement railings) within the B-1 Historic District, submitted by Julie Neumann on behalf of Cigars & More.

**Update**

*At the Marche meeting the AC noted the following concerns and directed staff to contact the petitioner regarding these issues;*

- *The attachment of the material to the structure;*
- *The look of the smooth glossy finish in relation to the rest of the building;*
- *The lack of detail regarding (i.e. "a spec sheet") the proposed material;*
- *The potential for the yellowing of material over time;*

*The consensus of the AC was to have staff draft a letter (to be reviewed by the chair) outlining the concerns of the AC to the petitioner and continue this item to the April 20<sup>th</sup> meeting.*

*A motion was made by Commissioner Closson, seconded by Commissioner Sylvester to direct staff to draft a letter outlining the concerns of the AC with regard to the replacement materials as proposed by the Commission and to continue this item to the April 20<sup>th</sup> meeting. On a voice vote all aye.*

*Attached is my e-mail correspondence to the petitioner as well as the response.*

*The petitioner has submitted specifications for the proposed material as well as attached details.*

*The petitioner will be present at the April 20<sup>th</sup> meeting.*

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**HISTORY/STAFF REVIEW:**

In August of 2014 staff explained a proposed amendment to the Zoning Code which would allow minor exterior changes to structures in the historic district subject to administrative review by staff. Administrative approval of minor modifications would be allowed if the materials/colors were consistent with the existing exterior of the structure. If modifications were found to be inconsistent with the existing structure or a "major" improvement referral to the AC for review would be required.

The goal of this proposal was to allow property owners to make timely and necessary minor repairs to structures quickly while maintaining the character and integrity of the structure thus improving the overall look of the downtown. This action was precipitated by the property maintenance inspections initiated by the Village in the downtown area.

The AC understood and were receptive to the concept, however had concerns with types of materials which would be used for replacement noting differences in quality and appearance of certain products.

The concern is that “inappropriate” materials would be administratively approved. If a list of acceptable replaced materials were created and approved the AC had no issues with request and indicated an exact 1 for 1 replacement of materials should not need AC review even though a building permit may be required.

This request precipitated the code amendment.

### **PROPOSAL**

The petitioner proposes that the existing wooden railing on the structure be replaced with a similar composite material. Materials would be similar in size and color to the existing wooden railing on the structure which is in disrepair (see photos attached).

A material sample will be available at meeting time. Photo’s of a spindle of the proposed material are attached for the consideration of the AC.

### **ARCHITECTURAL COMMISSION DECISION:**

The AC should determine the appropriateness of the proposed material at this location (in relation to the building and in relation to the area as a whole. If deemed appropriate this material would then be placed on a list of “acceptable” materials which could then be administratively approved by staff in subsequent permit applications and requests.

Jim,

I have attached all the specs and warranty information for the proposed railing. The board should understand that I have chosen this material for the longevity of the material and its appearance. I do not want railings that are going to yellow or need maintenance every 2-3 years either. As for the look of the finish, my sign posts in the front of the building have been a similar material (glossy) since we put up our sign in 2010 and nobody has ever commented that they do not fit in or even ever noticed that it is not wood. However, my sign that is wood already needs to be replaced. I will be at the meeting on the 20th along with my contractor. Please let me know if you need anything else.

Thank you,

**Julie Neumann**

On Tuesday, March 31, 2015 11:32 AM, James Hogue <[jhogue@longgrove.net](mailto:jhogue@longgrove.net)> wrote:

Hi Julie,

At the March 16<sup>th</sup> meeting the Village Architectural Commission (AC) reviewed your request for replacement railing with composite material on the structure at 445 Robert Coffin Road and within the B-1 Historic District.

As this was not a “one-for-one” replacement with identical materials administrative review and approval of the request was not possible.

At the meeting of the 16<sup>th</sup> the AC raised the following concerns with the proposed composite replacement materials;

- The method of the attachment of the material to the structure;
- The look of the smooth glossy finish in relation to the rest of the building;
- The lack of detail regarding (i.e. “a spec sheet”) the proposed material;
- The potential for the yellowing of material over time;

The AC directed me to draft a letter outlining these concerns which is attached.

Due to these concerns, the AC continued this request to the their April 20<sup>th</sup> meeting (7:00 PM @ Village Hall). It would be beneficial to have a representative at this meeting to answer questions regarding the proposal. A specification sheet (“spec sheet”) which further identifies the characteristics of the proposed material (and possibly how it will be affixed to the structure) would be helpful. If this information could be scanned and e-mailed to me (along with any other relevant information which addresses these concerns) by April 10<sup>th</sup> I can include it in the AC packet for the meeting of the 20<sup>th</sup>.

I have been out of the office for the last week and am currently playing “catch up” due this circumstance.

I will contact you later this week (3.30) to further discuss the concerns of the AC.

In the mean time I wanted to get this to you for your review and consideration.

I hope this information is helpful; I will be in touch.



RECEIVED

FEB 20 2015

VILLAGE OF LONG GROVE

STRUCTURE/FIXTURE ARCHITECTURAL COMMISSION APPLICATION

PROPERTY OWNER JULIE DATE: 2/19/15
APPLICANT'S NAME: SPARTAN L.P. - NEUMANN E-MAIL julie@cigarsandmore.com
ADDRESS: 314 S. MILWAUKEE AVE. LIBERTYVILLE PHONE: 847-980-8901
NAME OF BUSINESS: NEUMANN'S CIGARS + MORE
BUSINESS ADDRESS: 445 ROBERT PARKER COFFIN RD PHONE: 847-883-9998
TYPE OF STRUCTURE/FIXTURE: REPLACE EXISTING RAILING ON FRONT PORCH WITH COMPOSITE MATERIAL

- 1. LOCATION OF STRUCTURE/FIXTURE ON PROPERTY:
A. PROVIDE SITE PLAN.
B. PROVIDE PHOTOGRAPH OF SITE.
C. SQUARE FOOTAGE OF STRUCTURE 150 SQUARE FEET.

- 2. DRAWING OF PLANNED STRUCTURE/FIXTURE:
A. DIMENSIONS.
B. ELEVATIONS (ALL DIRECTIONS).
C. LIST MATERIALS TO BE USED/SAMPLE OF COLORS.

3. NAME, ADDRESS, AND PHONE NUMBER OF FIRM ERECTING OR MANAGING STRUCTURE:
ELLIOT WEST HOME SERVICES PHONE: 847-732-6672

E-MAIL ELLIOT@EWESTHOMESERVICES.COM

The property owner's signature is required below before any application may be processed. It is understood by the property owner(s) that he or she has read and understands the regulations governing the commercial property under this application in the Village of Long Grove, accepts and is liable for any corrections or modifications required to meet the standards of the Village, and further approves the work to be done on their property.

BUSINESS OWNER(S) [Signature]
PROPERTY OWNER(S) [Signature]

APPLICATION APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_



**MATERIAL SAFETY DATA SHEET**  
**Fibron® Horizon Plus Series Guardrail Systems**  
**MSDS – Black, Brick, Bronze, Sand, Slate and White**

**1.) PRODUCT AND COMPANY IDENTIFICATION**

Approval Date: 08/02/10

PRODUCT NAME: Fibron® Horizon Plus Series Guardrail Systems

SUPPLIER: Fiber Composites, LLC  
 181 Random Drive  
 New London, NC 28127

24 HOUR EMERGENCY: 704 -948-0240

PRODUCT AND MSDS INFORMATION: 704 -463-7120

**2.) COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAMES AND SYNONYMS:

- 1.) WOOD FIBER, WOOD DUST OR WOOD FLOUR
- 2.) POLYVINYL CHLORIDE

INGREDIENTS CONSIDERED TO BE HAZARDOUS TO HEALTH:

<u>SUBSTANCE NAME</u>	<u>WEIGHT PERCENTAGE</u>
WOOD FIBER DUST	10 - 25 %

NOTE: WOOD FIBER IS CONTAINED IN A POLYVINYL CHLORIDE MATRIX. POLYVINYL CHLORIDE IS A THERMOPLASTIC MATERIAL. THIS MIXTURE CONTAINS PREDOMINANTLY WOOD FIBER AND POLYVINYL CHLORIDE. THE POLYVINYL CHLORIDE CAN BE SOURCED AS VIRGIN OR REGRIND (RECYCLED) MATERIALS. THE STANDARD PRODUCT IS APPROXIMATELY 75-90% THERMOPLASTIC AND 25 -10 % WOOD FIBER, RESPECTIVELY. IN ADDITION, THE EXTRUDED PROFILE (GUARDRAIL COMPONENTS) ARE COVERED IN A PREDOMINATELY POLYVINYL CHLORIDE CAP STOCK.

THIS PRODUCT IS PREDOMINATELY POLYVINYL CHLORIDE, A SUBSTANCE NOT CONSIDERED TO BE A HAZARDOUS CHEMICAL BASED ON EVALUATIONS MADE BY OUR COMPANY UNDER THE OSHA HAZARD COMMUNICATION STANDARD, 29 C.F.R. & 1910.1200.

See Section 8 for exposure limits (if applicable).



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**3.) HAZARDS IDENTIFICATION**

UNITED STATES OF AMERICA OSHA HAZARD COMMUNICATION STANDARD: This product may be used in applications that produce wood dust fibers. According to OSHA CFR 1910.1200, certain wood fibers are considered hazardous if the workplace airborne concentration exceeds the OSHA or ACGIH exposure limits (See section 8).

EMERGENCY RESPONSE DATA: Light gray solid. Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. DOT ERG No. – NA

**4.) FIRST AID MEASURES**

If symptoms occur, remove affected individual from the area. Wash or flush affected areas thoroughly with flowing water for 15 minutes. Wash skin with mild soap and water. If irritation persists, seek medical attention.

Symptoms and signs of exposure are nausea, discomfort, headache, dizziness, eye, skin and respiratory tract irritation.

EYE CONTACT: Exposure to dust may cause irritation of eyes. Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Exposure to dust may cause irritation of the skin. Wash contact areas with soap and water. Launder contaminated clothing before reuse. If a rash, persistent irritation or dermatitis occurs, get medical advice before returning to work.

INHALATION: If respiratory irritation, cough shortness of breath, wheezing or chest tightness occurs after exposure to dust, remove from further exposure, seek immediate medical assistance and call for a physician. Inhalation may cause nausea, discomfort and central nervous system effects.

INGESTION: Not expected to be a problem when ingested in small quantities. If uncomfortable, seek medical assistance.

**5.) FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA: Water and ABC dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire-exposed product cool. For fires in enclosed area, fire fighters must use self-contained breathing apparatus.



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**SPECIAL PROTECTIVE EQUIPMENT:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Exposure to fire can generate toxic fumes. This product evolves hydrogen chloride, carbon monoxide and small amounts of various hydrocarbons when burned. Carbon monoxide and carbon dioxide are asphyxiates and hydrogen chloride is an irritant and corrosive. High dust levels may create potential for explosion.

Flash Point: 735° F  
Flame Spread Index: NA  
Flammable Limits – LEL: NA  
Flammable Limits – UEL: NA

NFPA HAZARD ID:    Health: 0        Flammability: 1        Reactivity: 0.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Smoke, Carbon Monoxide, Carbon Dioxide, Aldehydes, Organic gases, Hydrogen Chloride and other hydrocarbons.

**6.) ACCIDENTAL RELEASE MEASURES**

**NOTIFICATION PROCEDURE:** None

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Where dusty conditions are created as a result of cutting or sawing, wet down material then sweep or vacuum for disposal. Personnel performing cleanup must use protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Not expected to be a problem.

**PERSONAL PRECAUTIONS:** See Section 8.

**7.) HANDLING AND STORAGE**

**HANDLING:** fibron® Horizon Plus Series Guardrail Systems are not intended for load-bearing or heavy structural applications. Please consult Fiber Composites' literature for proper usage. The density of fibron® Horizon Plus Series Guardrail Systems material is heavier as compared to most traditional lumber products. Therefore, the user must employ proper handling to prevent damage or injury.



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**STORAGE:** Store fiberon® Horizon Plus Series Guardrail Systems away from strong oxidizing agents or combustible material.

**INHALATION:** Inhalation of dust should be avoided. Exercise care when dumping bags, sweeping, mixing or performing other tasks that might create dust.

**8.) EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION:** Use and work in a well-ventilated area.

**RESPIRATORY PROTECTION:** Approved dust respirators must be used for dusty conditions or if breathing of dusts is probable. Wear NIOSH/MSHA approved dust/mist respirators when large amounts of dust may occur.

**EYE PROTECTION:** Safety glasses with side shields or goggles should be worn to protect against dust particles in the air.

**SKIN PROTECTION:** No special equipment required. Good personal hygiene should be followed.

**PROTECTIVE GLOVES:** Wear protective gloves if handling hot material.

<u>SUBSTANCE NAME</u>	<u>SOURCE</u> (Agency)	<u>TWA</u> (ppm mg / m <sup>3</sup> )	<u>STEL</u> (ppm mg / m <sup>3</sup> )
Wood Fiber Dust			
Hardwood	OSHA	5	
Softwood	OSHA	5	
Oak Hardwood	ACGIH	1	
Softwood	ACGIH		10
Vinyl Chloride Monomer	OSHA	1ppm / 8 hr	
Vinyl Chloride Monomer	ACGIH -TLV	5 ppm	
Titanium Dioxide	OSHA	15 mg/cm	
Titanium Dioxide	ACGIH – TLV	10 mg/cm	
Calcium Carbonate	OSHA	15 mg/cm	
Calcium Carbonate	ACGIH – TLV	15 mg/cm	

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Organotin Compound	OSHA	0.1 mg/m <sup>3</sup>
Organotin Compound	OACGIH - TLV	0.1 mg/m <sup>3</sup>

NOTE: Limits as displayed are for guidance only. Follow application regulations.

**9.) PHYSICAL AND CHEMICAL PROPERTIES**

Physical properties are given which are considered representative. For specific physical properties refer to the Product Data Sheet.

APPEARANCE:	Solid
COLOR:	White, Gray and Almond which changes with time.
ODOR:	None
PH VALUE:	NA
BOILING POINT:	NA
MELTING POINT:	approximately 130 C
FLASH POINT:	393 C
SELF-IGNITION:	406 C
BURN RATE:	Unable to maintain self sustaining burn
SELF-IGNITION:	437 C
SMOKE DENSITY	821.7
DENSITY	>1.4 g/cm <sup>3</sup>
WATER ABSORPTION:	.5% by weight
COEF. OF MOISTURE EXPANSION:	.61 % by thickness
WATER SOLUBILITY:	Negligible
FUNGUS RESISTANCE:	No Decay
TERMITE RESISTANCE:	Light Attack Rating = 9.6 (10 Max)
COEF OF THERMAL EXPANSION:	4.0 x 10 <sup>-5</sup> (1/C)
VAPOR DENSITY:	NE
EVAPORATION RATE:	NE
POUR POINT:	NA
FREEZING POINT:	NE
VOLATILE ORGANIC COMPOUND:	NE

NOTE: NA – Not Applicable      NE – Not Established

For additional information, contact customer service.

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**10.) STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, WEATHER, ETC.):	Stable (color does change).
CONDITIONS TO AVOID:	Heat and flame. Build up of dusts.
INCOMPATIBILITY:	Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Smoke, carbon monoxide, carbon dioxide, hydrogen chloride & other hydrocarbons.
HAZARDOUS POLYMERIZATION:	Will not occur.

**11.) TOXICOLOGICAL DATA**

**ACUTE TOXICOLOGY**

ORAL TOXICITY (RATS):	NE
DERMAL TOXICITY (RABBITS):	NE
INHALATION TOXICITY (RATS):	NE
EYE IRRITATION (RABBITS):	NE
SKIN IRRITATION (RABBITS):	NE

NOTE: NE – Not Established

**CHRONIC TOXICOLOGY**

IARC has determined and summarized that there is sufficient evidence to classify wood fiber as a human carcinogen (Group 1). This classification is based primarily on IARC's evaluation of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC didn't find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust. Exposure to wood fiber is severely reduced when a polymer matrix encases the wood fiber.

IARC or OSHA has determined and summarized that there is not sufficient evidence to classify polyvinyl chloride as a human carcinogen.

**12.) ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE AND EFFECTS: Not Established

**13.) DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: Dispose of waste in a licensed landfill or by incineration in accordance with federal, state and local laws and regulations.



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**14.) TRANSPORT INFORMATION**

USA DOT: Not regulated by US DOT.  
IMO: Not regulated by IMO.  
IATA: Not regulated by IATA

**15.) REGULATORY INFORMATION**

GOVERNMENT INVENTORY STATUS: All components comply with TSCA.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:  
Fiber Composites' **fibron® Horizon Plus Series Guardrail Systems** contains no chemicals reportable under SARA (313) toxic release program.

USE: Composite Lumber Products for Exterior Decks and Balconies

**INGREDIENTS:**

Wood fiber	10 – 25 % by weight
Polyvinyl Chloride	90 - 75 % by weight

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The provided information is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; the user therefore assumes all risks of use of the product and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by US law, republication or retransmission of this document, in whole or in part, is not permitted. Fiber Composites, LLC assumes no responsibility for accuracy of information unless the document is the most current available from an official member of Fiber Composites' distribution network. Fiber Composites, LLC neither represents nor warrants that the format, content or product formula contained in this document comply with the laws of any other country except the United States of America. Compliance with all applicable federal, state and local laws and regulations remain the responsibility of the user.

# FIBERON STAIN AND FADE PERFORMANCE LIMITED WARRANTY

PLEASE READ THIS WARRANTY CAREFULLY BEFORE PURCHASING, USING OR INSTALLING YOUR FIBERON PRODUCT. THIS WARRANTY IS A BASIS OF THE BARGAIN AND PURCHASE OF THE FIBERON PRODUCT AND SETS FORTH THE ENTIRE WARRANTY AND RESPONSIBILITY OF FIBERON. PURCHASE AND USE OF THE FIBERON PRODUCT CONSTITUTES ACCEPTANCE OF AND AGREEMENT TO THESE TERMS. SECTION 5 CONTAINS A BINDING ARBITRATION CLAUSE AND CLASS ACTION WAIVER THAT AFFECTS YOUR RIGHTS ABOUT HOW TO RESOLVE ANY DISPUTE WITH FIBERON.

## 1. WARRANTY COVERAGE.

Fiber Composites LLC, individually and doing business as Fiberon ("Fiberon") warrants the stain and fade resistance of Fiberon Decking products when properly installed and used as decking in residential applications. This warranty applies only to Fiberon decking products listed below and manufactured by Fiberon and is extended to the original homeowner (Purchaser), as long as they own the residence upon which the decking materials are installed.

**25-Year Coverage:** Fiberon® Horizon® Decking, Fiberon® ProTect Advantage™ Decking, Fiberon® ProTect® Decking, Fiberon® Sanctuary® Decking, Fiberon® Good Life™ Decking

**20-year Coverage:** Veranda® ArmorGuard® Decking, Fiberon® Xtreme Decking, Fiberon® Xtreme Wide Decking

**Stain Resistance:** Fiberon warrants that the Fiberon Products named above are and will be from the date of residential consumer purchase for the term coverage stated above, resistant to permanent staining resulting from spills of food and beverage items that would typically be present on a residential deck, provided that the Fiberon Products were installed, cared for and maintained in accordance with the Fiberon written instructions, the Fiberon Care and Maintenance Instructions found on [www.fiberondecking.com](http://www.fiberondecking.com) and the conditions stated above.

**Fade Resistance:** Fiberon warrants that the Fiberon Products are and will be, from the date of residential consumer purchase for the term coverage stated above, resistant to color change from light and weathering exposure as measured by color change in excess of 5 Delta E (Hunter) units provided that the Fiberon products were installed, cared for and maintained in accordance with the Fiberon written instructions and the Fiberon Care and Maintenance instructions found on [www.fiberondecking.com](http://www.fiberondecking.com) and the conditions stated below.

**Exclusions from/Voiding Stain and Fade Warranty Coverage:** Fiberon does not warrant its Fiberon Products to be stain or fade proof. When installed, cared for and maintained properly in the residential exterior deck environment, Fiberon Decking products provide stain and fade resistance. However, no material is stain or fade proof, especially but not only when stains result from spilled or otherwise substances that are not properly cleaned or when the materials are exposed to years of UV exposure and the elements.

Without limitation on any other provision of this Limited Warranty, Fiberon does not warrant for stain resistance resulting from spilled or otherwise applied substances that are not properly cleaned with soap and water or mild household cleaners immediately.

All warranties are void and excluded in their entirety in any of the following events:

- Failure to install, care for and maintain the Fiberon Products in accordance with the Fiberon written instructions, and the Fiberon Care and Maintenance instructions found on [www.fiberondecking.com](http://www.fiberondecking.com) and the conditions stated below voids all warranties in their entirety.
- Use of abrasive compounds of acidic or basic pH, strong solvents, oil based paints or stains, metallic rust, concrete or masonry products, air or water borne minerals and other abnormal residential deck use items will damage the Fiberon Products and voids all warranties in their entirety.
- Direct or indirect contact with the Fiberon Products of extreme heat sources (over 250 degrees) voids all warranties in their entirety.
- Damaging, gouging, scraping or puncturing the surface of the Fiberon Products voids all warranties in their entirety.
- Paint or applying other coating materials to Fiberon Products voids all warranties in their entirety.

Compliance with the Fiberon Care and Maintenance Instructions is required and a condition precedent to any warranty or warranty claim. Without limitation on any other provision of this Limited Warranty to qualify for coverage, you must have tried cleaning the affected area of your deck using the instructions indicated within this document and within the Care and Maintenance Instructions provided online at [www.fiberondecking.com](http://www.fiberondecking.com). If the affected area still remains unsatisfactory after you have tried these cleaning procedures, then you must have the affected area of your deck professionally cleaned at your expense. If the affected area remains unsatisfactory after the professional cleaning, you must contact Fiberon

Consumer and Technical Support (800-573-8841) and provide proof of the professional cleaning within 30 days of the professional cleaning.

## 2. WARRANTY CLAIM PROCEDURE

- a. To make a warranty claim, the Purchaser must send a copy of this warranty document, copy of original proof of purchase, and photos of the issue to the address below. Such proof of purchase must be from an authorized Fiberon Product dealer and must show (1) the date of the purchase and (2) that sufficient Fiberon Product has been purchased to cover the number of lineal feet claimed to be damaged. All warranty claims must be received by Fiberon within the Warranty Period and in no event later than thirty (30) days after any discovery of a possible nonconforming nature of or other failure of the Fiberon Product or Fiberon branded fastener.
- b. Claims and Notices must be sent to:  
Fiberon  
Consumer and Technical Support Department  
181 Random Dr.  
New London, NC 28127  
Phone 844-226-3958 | Fax 704-463-1750 | email info@fiberondecking.com
- c. Upon discovering a possible defect of the Fiberon Product, Purchaser must make temporary repairs or cordon off the area at the Purchaser's expense to protect all property and persons that could be affected. If needed, the Purchaser must allow Fiberon to enter the property into which the Fiberon Product is installed to inspect the nonconforming product. Fiberon must have made a determination on the warranty claim before any permanent repairs or removal of materials may be undertaken. No products shall be returned to Fiberon unless directed and authorized by Fiberon in writing to do so. Any removal or disposal of defective products shall be at Purchaser's expense.

## 3. GENERAL CONDITIONS, EXCLUSIONS AND LIMITATIONS

- a. **Purchaser's Sole Remedy.** Purchaser's sole remedy, and Fiberon's sole liability, for any claim whatsoever relating to the Fiberon Product, including without limitation any claims arising out of the marketing, purchase, installation, use, storage, possession or maintenance of Fiberon Products (whether such claim arises in contract, warranty, tort, gross negligence, negligence, strict liability or otherwise) or any claims that the Fiberon Products failed to perform as warranted above, is and shall be the replacement of the defective Fiberon Product with new Fiberon Product in an amount equal to the volume (linear feet) of defective material as listed on the Prorated Warranty Schedule contained herein. Replacement Fiberon material will be as close in color, design and quality to the original installation as reasonably possible, in Fiberon's discretion and determination, but Fiberon does not guarantee an exact match as colors and designs may change. Additionally, Purchaser agrees to the use of such fasteners as adequate for reinstallation of the furnished board, irrespective of existing method. Fiberon may, at its option, elect to refund the percentage of the original purchase price listed under Recovery on the Prorated Warranty Schedule in lieu of replacing the defective product.

Prorated Stain and Fade Limited Warranty Schedule		
Recovery	20-Yr Residential	25-Yr Residential
	Year of Claim	Year of Claim
100%	0-10 years	0-10 years
80%	11-12 years	11-13 years
60%	13-14 years	14-16 years
40%	15-16 years	17-19 years
20%	17-18 years	20-22 years
10%	19-20 years	23-25 years

- b. **Exclusions and Limitations of Certain Damages.**

In no event will Fiberon be liable for any incidental, special, indirect or consequential damages resulting, directly or indirectly, from any defect in the Product supplied, including but not limited to, damage to property. Some states do not allow the exclusion or limitation of incidental or consequential damages in certain circumstances, so the above limitation may not apply to you.

In addition, Fiberon shall not be liable for installation, removal or reinstallation costs or for any indirect, punitive, exemplary or consequential damages of any kind, nor shall Fiberon be liable for any loss of use or loss of value of the property (or any part thereof) where the Fiberon Product is installed. Fiberon does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any condition attributable to: (1) improper installation of Fiberon products and/or failure to abide by Fiberon's written instructions and any applicable laws or building codes, including but not limited to improper structural support, fastening, ventilation or gapping; (2) use of Fiberon Products beyond normal use or in an application not recommended or permitted by Fiberon's written instructions and applicable laws and building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which Fiberon Products are installed; (4) Defects in or failure arising from decking structure resulting from water caused by improper installation, workmanship, maintenance or repair; (5) any Act of God

(including but not limited to flooding, hurricane, tornado, wind, earthquake, lightning, hail, etc.); (6) discoloration, fading, spotting or staining from or caused by mold, mildew, metallic oxides or particles (including but not limited to rust or corrosion of any fasteners), dirt, other atmospheric or environmental pollutants, foreign substances such as grease or oil, chemicals (including but not limited to those found in cleaners), or normal weathering (defined as natural efflorescence, exposure to sunlight, weather and atmospheric conditions which causes any colored surface to gradually fade, flake, chalk, or accumulate dirt or stains); (7) damage resulting from casualty, fire or exposure to heat sources such as cooking devices or retro-reflective surfaces; (8) the application of improper paints, stains, surface treatments or other chemical substances including but not limited to non-recommended cleaners or pesticides; (9) fading, flaking or other deterioration of any paints, stains or other coatings placed on the Fiberon Products; (10) climate change or any other cause beyond the control of Fiberon; (11) variations or changes in color of Fiberon Products; (12) improper handling, maintenance, storage, abuse or neglect of Fiberon Products by Purchaser or others; (13) ordinary wear and tear; (14) impact from objects; or (15) any fasteners not supplied or approved by Fiberon.

**c. Additional Terms and Limitations.**

The suitability of the Fiberon Products for Purchaser's property for the installation and use of the Fiberon Products, including but not limited to whether the Fiberon Product meets the requirements of any applicable building or safety code or similar regulation relating to Purchaser's property, is the responsibility of the Purchaser and/or its design professionals, and not that of Fiberon. Fiberon does not provide architectural or engineering services. Fiberon makes no express or implied warranty or representation as to the suitability of the Fiberon Products for, or actual performance, capabilities or operation of the Fiberon Products at, Purchaser's property or under the conditions of Purchaser's use.

Without limitation on any other provision of this Limited Warranty, all warranties, whether express or implied, are void if any one or more of the following applies or occurs: (i) the Fiberon Product is not installed, maintained and/or used strictly in accordance with Fiberon's written installation, maintenance and use instructions, and all applicable laws, codes and regulations; (ii) misuse of the product, whether foreseeable or unforeseeable; (iii) failure of proper and timely maintenance or repair; (iv) failure to provide timely notice to Fiberon of any failure or defect of the Fiberon Product; or (v) use of fasteners other than the Fiberon branded fasteners or approved hidden fasteners listed on [www.fiberondecking.com](http://www.fiberondecking.com) if it is determined that deck board failures resulted from the use of non-approved fasteners.

**4. BINDING ARBITRATION AND CLASS ACTION WAIVER IF YOU LIVE IN THE UNITED STATES**

This section applies to any dispute between you and Fiberon relating to your Fiberon Product. "Dispute" will be given the broadest possible meaning allowable under law.

**4.1. Notice of Dispute.** In the event of a dispute, you must give Fiberon a Notice of Dispute, which is a written statement that sets forth the name, address and contact information of the party giving it, the facts giving rise to the dispute, and the relief requested. You must send any Notice of Dispute by U.S. Mail to Fiberon, Consumer and Technical Support Department, 181 Random Dr. New London, NC 28127. You will attempt to resolve any dispute with Fiberon through informal negotiation within 60 days from the date the Notice of Dispute is sent. After 60 days, you may commence arbitration.

**4.2. Small Claims Court.** You may also litigate any dispute in small claims court in your county of residence, if the dispute meets all requirements to be heard in the small claims court. You may litigate in small claims court whether or not you negotiated informally first.

**4.3. BINDING ARBITRATION. IF YOU AND FIBERON DO NOT RESOLVE ANY DISPUTE BY INFORMAL NEGOTIATION OR IN SMALL CLAIMS COURT, ANY EFFORT TO RESOLVE THE DISPUTE WILL BE CONDUCTED EXCLUSIVELY BY BINDING ARBITRATION. YOU ARE GIVING UP THE RIGHT TO LITIGATE (OR PARTICIPATE IN AS A PARTY OR CLASS MEMBER) ALL DISPUTES IN COURT BEFORE A JUDGE OR JURY. Instead, all disputes will be resolved before a neutral arbitrator, whose decision will be final except for a limited right of appeal under the Federal Arbitration Act. Any court with jurisdiction over the parties may enforce the arbitrator's award.**

**4.4. CLASS ACTION WAIVER. Any proceedings to resolve or litigate any dispute in any forum will be conducted solely on an individual basis. Neither you nor Fiberon will seek to have any dispute heard as a class action, private attorney general action, or in any other proceeding in which either party acts or proposes to act in a representative capacity. No arbitration or proceeding will be combined with another without the prior written consent of all parties to all affected arbitrations or proceedings.**

**4.5. Arbitration Procedure, Costs, Fees and Incentives.** Any arbitration will be conducted by the American Arbitration Association (the "AAA") under its Commercial Arbitration Rules and in many cases its Supplementary Procedures for Consumer-Related Disputes. For more information, see [www.adr.org](http://www.adr.org) or call 1-800-778-7879. In any dispute seeking less than \$10,000 in damages, Fiberon will promptly reimburse your filing fees and pay the AAA's and arbitrator's fees if you are the prevailing party. You agree to commence arbitration only in your county of residence or New London, NC.

**5. CHOICE OF LAW**

North Carolina law shall govern the interpretation of this Limited Warranty and any claim that Fiberon has breached it, regardless of conflict of law principles.



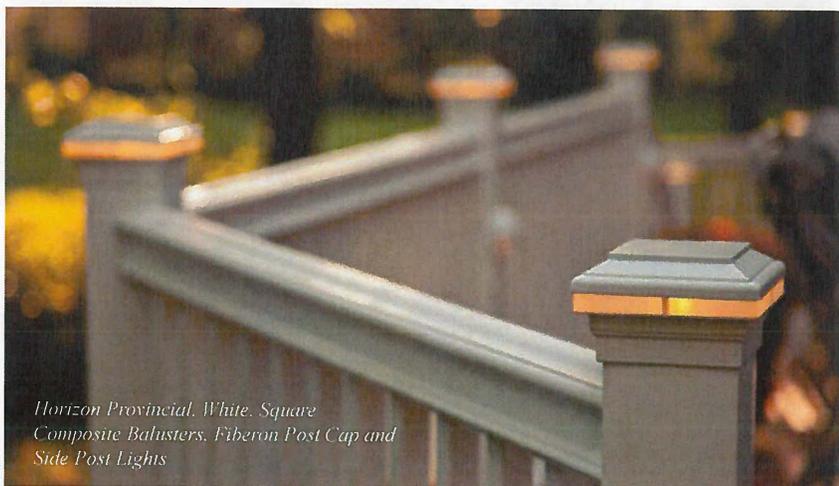
*Horizon Provincial, White,  
Fiberon Post Cap and Side  
Post Lights*

**20** yr  
Performance  
Limited Residential  
Warranty

PROVINCIAL

Horizon Provincial Railing provides a classic, curved top rail perfect for decks, stairs, balconies and porches. Available in sections, Provincial Railing comes in traditional white, designed to coordinate with all Fiberon decking. Provincial resists cracking and flaking to provide long lasting beauty and is backed by a 20-year performance, limited warranty.

- Traditional profile made of low maintenance PVC composite
- Accommodates black round metal balusters
- Customizable rail design
- ClearVisionSystem® panels available in Clear and Bronze
- ADA Compliant Handrail System available
- Marine grade hardware available special order



*Horizon Provincial, White, Square  
Composite Balusters, Fiberon Post Cap and  
Side Post Lights*



*Horizon Provincial, White,  
Square Composite Balusters*



*Metal Rail Hardware*



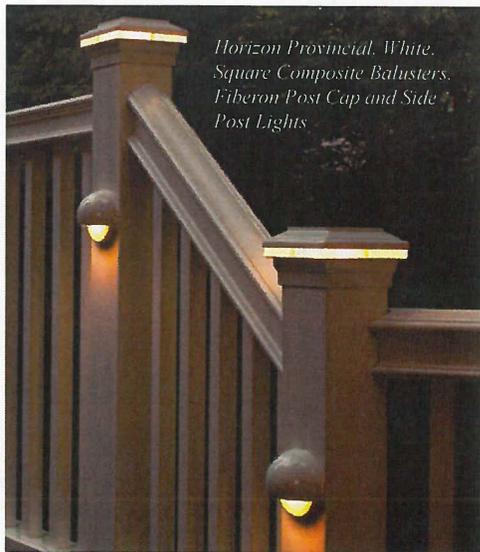
**Horizon Post Sleeve Kits:**

4 in. x 4 in. x 48 in. (Includes Post Cap and Base Moulding)

5-3/4 in. x 5-3/4 in. x 48 in. (White only, includes Post Cap, Base Moulding and Post Adapters)

**Horizon 108 in. Post Sleeve**

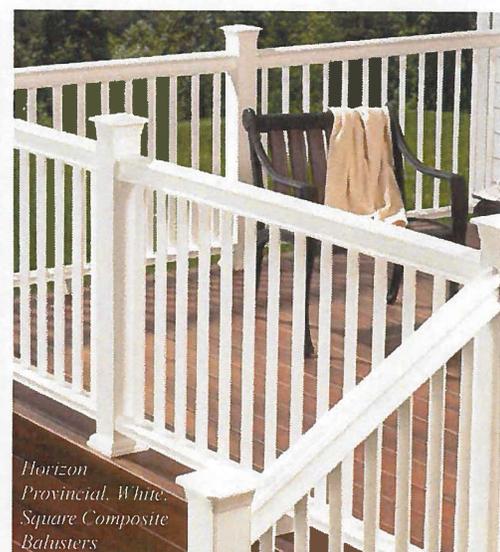
(Post Cap and Base Moulding also sold separately)



*Horizon Provincial, White,  
Square Composite Balusters,  
Fiberon Post Cap and Side  
Post Lights*



*Horizon Provincial, White,  
Square Composite Balusters*



*Horizon  
Provincial, White,  
Square Composite  
Balusters*

Proud member of

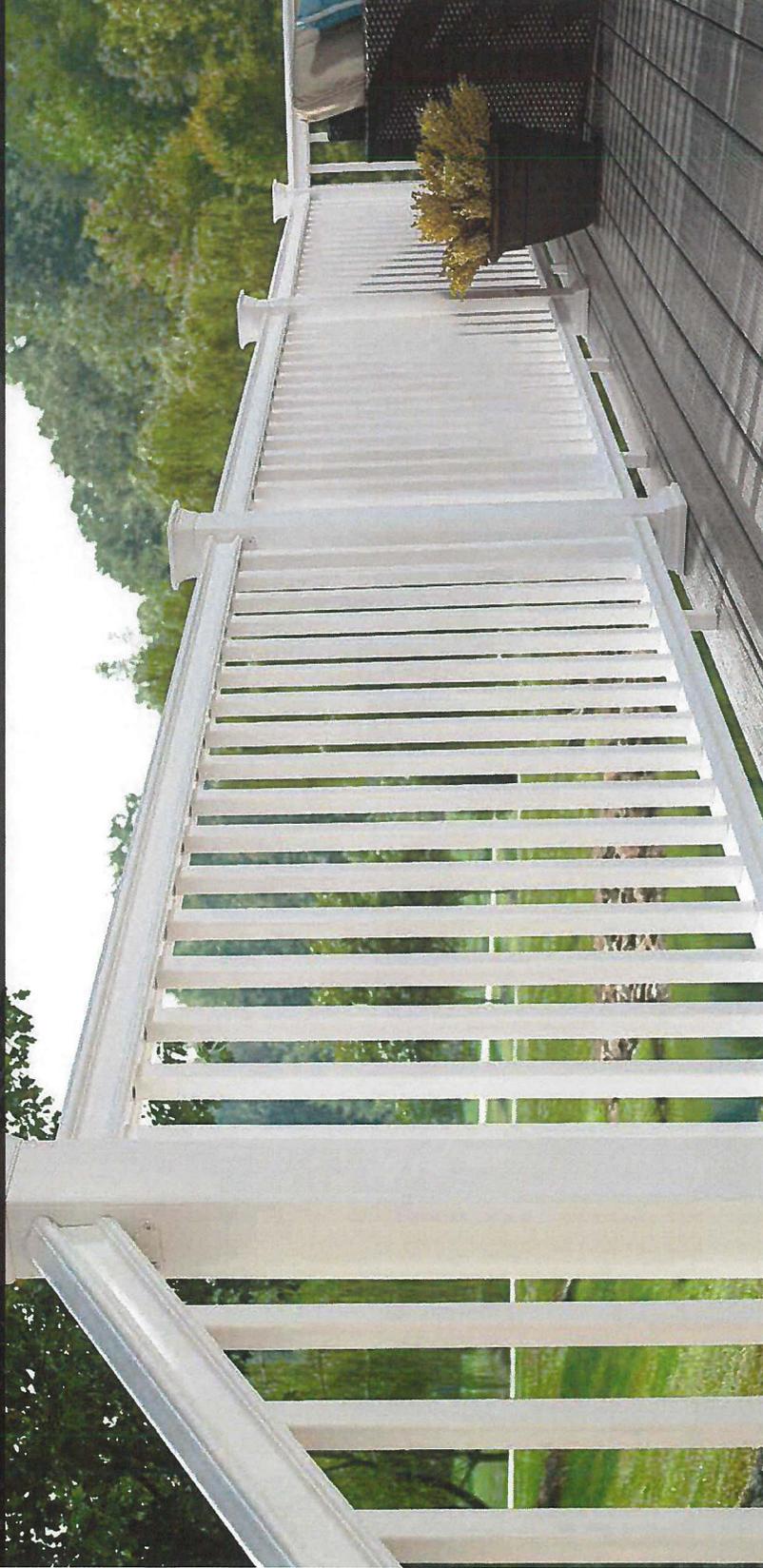


Beautiful outdoor living, **Life**<sup>®</sup> built for



# HORIZON® Provincial Composite Railing

**fiberon**  
Beautiful  
outdoor living,  
built for Life®



5-3/4 in. Post  
Sleeve Kit



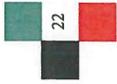
Post Sleeve Kit: Available in 4 in. x 4 in. x 48 in.  
(Includes Post Cap and Base Moulding)  
Available in 5-3/4 in. x 5-3/4 in. x 48 in.  
(White only, includes Post Cap, Base Moulding and Post Adapters)  
Post Sleeve: Available in 108 in.  
(Post Cap and Base Moulding also sold separately)

Fiberon Horizon Provincial Railing provides a classic, curved top rail perfect for decks, stairs, balconies and porches. Available in sections, Provincial Railing comes in traditional white, designed to coordinate with all Fiberon decking. Provincial resists cracking and flaking to provide long lasting beauty and is backed by a 20-year performance, limited warranty.

- Available in 6 ft. and 8 ft. rail sections and 6 ft. stair sections
- Traditional profile made of low maintenance PVC composite
- Accommodates black round metal balusters
- Customizable rail design
- ADA Compliant Handrail System available



For the most up-to-date information and specifications, visit [fiberondecking.com](http://fiberondecking.com) or call 1-800-573-8841.



# FIBERAIL® Composite Railing

**fiberon** Beautiful outdoor living built for Life®



Top and Bottom Stair Collars



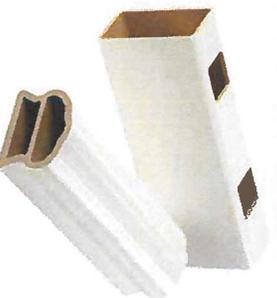
Top and Bottom Rail Collars



Bevel Post Sleeve Cap



Post Sleeve Base Moulding



Fiberail Post Sleeve Kit: Available in 4 in. x 4 in. x 37 in. (Includes Bevel Cap and Base Moulding)  
Fiberail Post Sleeve: Available in 100 in. (Post Cap and Base Moulding also sold separately)

Fiberon Fiberail in classic white offers a sculpted top rail profile perfect for dressing up decks, porches, balconies and stairs. Available with white composite balusters, Fiberail pairs well with any architectural style. Fiberail consists of a premium composite substructure with a permanent PVC finish for a beautiful, sturdy and safe surround. Fiberail installs quickly and easily with drop-in balusters and matching rail collars.

- Available in 6 ft. and 8 ft. rail sections and 6 ft. stair sections
- Available in 36 in. and 42 in. installed rail heights
- Strong and durable premium composite substructure and co-extruded PVC surface for durability
- Low maintenance, backed by a 20-year limited performance warranty

For the most up-to-date information and specifications, visit [fiberondecking.com](http://fiberondecking.com) or call 1-800-573-8841.



Fiberon® Decking Product Matrix

Decking Product Line	Paramount Decking	Horizon Decking	Profect Advantage Decking	Good Life Decking	Classic Decking
<b>Board Profile Dimensions</b>	Flat bottom 1 in. x 5.5 in. (2.54 cm x 13.97 cm)	Flat bottom .935 in. x 5.4 in. (2.37 cm x 13.7 cm)	Flat bottom .93 in. x 5.4 in. (2.36 cm x 13.4 cm)	Relieved bottom .93 in. x 5.3 in. (2.36 cm x 13.4 cm)	Scalloped bottom .93 in. x 5.25 in. (2.36 cm x 13.3 cm)
<b>Profile Square Edge Grooved Edge</b>					
<b>Reversible</b>	No	Yes	No	No	No
<b>Material</b>	Cellular Foam Polymer with coextruded cap on 3 sides	Durable PermaTech outer surface is bonded on 4 sides of HDPE and wood composite core	Durable PermaTech outer surface is bonded on 3 sides of HDPE and wood composite core	Durable PermaTech outer surface is bonded on 3 sides of HDPE and wood composite core	HDPE and wood composite
<b>Multi-colors</b>	Sandstone, Brownstone, Flagstone	Ipe, Rosewood, Tudor Brown, Castle Gray, Greystone	Chestnut, Gray Birch, Western Cedar	—	—
<b>Solid Colors</b>	Mineral, Fossil	—	Harbor Gray	Cabin, Cottage, Villa	Timber, Granite
<b>Limited Performance Warranty</b>	Lifetime	25-Year	25-Year	25-Year	20-Year
<b>Stain &amp; Fade Limited Warranty</b>	—	25-Year	25-Year	—	—
<b>Available Lengths</b>	20 ft.	20 ft.	20 ft.	20 ft.	20 ft.
<b>Square Edge Grooved Edge</b>	12 ft., 16 ft., 20 ft.	12 ft., 16 ft., 20 ft.	12 ft., 16 ft., 20 ft.	12 ft., 16 ft., 20 ft.	12 ft., 16 ft., 20 ft.
<b>Span Limitations</b>	Perpendicular to joist: 16 in. (40 cm); Up to 45° angle to joist 12 in. (31 cm); Stair stringer spacing 16 in. (40 cm)	Perpendicular to joist: 16 in. (40 cm); Up to 45° angle to joist 12 in. (31 cm); Stair stringer spacing 12 in. (31 cm)	Perpendicular to joist: 16 in. (40 cm); Up to 45° angle to joist 12 in. (31 cm); Stair stringer spacing 9 in. (23 cm)	Perpendicular to joist: 16 in. (40 cm); Up to 45° angle to joist 12 in. (31 cm); Stair stringer spacing 9 in. (23 cm)	Perpendicular to joist: 16 in. (40 cm); Up to 45° angle to joist 12 in. (31 cm); Stair stringer spacing 9 in. (23 cm)
<b>Fascia Available</b>	.5 in. x 11.75 in. x 12 ft. All colors	.75 in. x 11.25 in. x 12 ft. All colors	.75 in. x 11.25 in. x 12 ft. All colors	.75 in. x 11.25 in. x 12 ft. All colors	.75 in. x 11.25 in. x 12 ft. All colors
<b>Riser Available</b>	No	.75 in. x 7.25 in. x 12 ft. All colors	No	No	No

Fiberon® Railing Product Matrix

Style	Horizon Mission	Horizon Provincial	Fiberall
<b>Profile Dimensions Top Rail Bottom Rail</b>	3.75 in. x 2.25 in. (10 cm x 6 cm) 3.5 in. x 1.75 in. (9 cm x 4 cm)	3.25 in. x 3.4375 in. (8 cm x 9 cm) 3.5 in. x 1.75 in. (9 cm x 4 cm)	2.625 in. x 2.125 in. (6 cm x 9 cm) 2 in. x 3.5 in. (9 cm x 4 cm)
<b>Profile Top Rail Bottom Rail</b>	 	 	 
<b>Material</b>	Premium quality, strong, durable, composite railing with permanent bonded finish. Provides superior UV, moisture and stain resistance.	Premium quality, strong, durable, composite railing with permanent bonded finish. Provides superior UV, moisture and stain resistance.	Premium quality, strong, durable, composite railing with permanent bonded finish. Provides superior UV, moisture and stain resistance.
<b>Colors</b>	White, Black, Bronze, Dark Walnut	White	White
<b>Limited Warranty</b>	20-Year	20-Year	20-Year
<b>Available Lengths Line Stair</b>	6 ft. and 8 ft. (1.8288 m and 2.4384 m) 6 ft. (1.8288 m)	6 ft. and 8 ft. (1.8288 m and 2.4384 m) 6 ft. (1.8288 m)	6 ft. and 8 ft. (1.8288 m and 2.4384 m) 6 ft. (1.8288 m)
<b>Available Baluster Styles, Profiles and Dimensions</b>	Composite Square 1.25 x 1.25 in. Round Metal Black .75 in. diameter	Composite Square 1.25 x 1.25 in. Round Metal Black .75 in. diameter	Composite Square 1.25 x 1.25 in.
<b>ClearVision System Tint Infill</b>	Clear or Bronze White or Black	Clear or Bronze White	Clear or Bronze White

For the most up-to-date information and specifications, visit fiberondecking.com or call 1-800-573-9841.



Composite Railing systems are designed to work with a number of different decking materials and surfaces. Before initiating any project, obtain a copy of your local building codes and understand them thoroughly. Local building code requirements will always supersede any and all suggested procedures and measurements in the following installation guidelines.

**Post Installation**

Determine where the railing posts will be positioned by using a scaled drawing of your project. For proper aesthetics, divide the perimeter dimensions evenly so that posts are spaced equally. To optimize post placement, additional joists or alternative locations may be required. Posts may be installed by using one of four methods. Choose the method or methods that best suit your particular project.

Composite guardrail systems should only be secured to code compliant posts. Securing a guardrail to another structure (i.e. building) is not recommended (1).

*Note: The inside measurement between posts cannot exceed 96" for 8' (2.4 m) sections and 72" for 6' (1.8 m) sections. This measurement does not include posts.*

**Post Sleeve Over Wood Post**

Use the Post Sleeve method to install railing directly to a wooden 4" x 4" (10 cm x 10 cm) deck post. This is ideal for new deck construction methods that attach the rim joist directly to the deck support posts, where wood 4" x 4" (10 cm x 10 cm) deck support posts extend through the deck serving as rail posts (2), or in those code compliant applications where the use of existing 4" x 4" (10 cm x 10 cm) wooden posts are desired.

1. Wooden posts actual size should be 3.5" x 3.5" (9 cm x 9 cm). Oversized wood posts may damage Post Sleeve. Planing the post down may be required.
2. Ensure 4" x 4" (10 cm x 10 cm) wooden posts are code compliant and, where possible, spaced equally for the best looking application.
3. Determine the desired height of Post Sleeve. Typically, the height is no less than 2" (5 cm) above the top of the finished railing system. This ensures the proper placement of the Post Caps that fit over the top of the Post Sleeve.
4. The wood post should be approximately 1" (3 cm) shorter than the height of the Post Sleeve. Cut the Post Sleeve to the desired height.
5. After decking is installed, slide Post Sleeve over the wood 4" x 4" (10 cm x 10 cm) post (Figure 2). If a restriction is found, remove the Post Sleeve and sand or plane the 4x4 wood post to remove restriction. Forcing the Post Sleeve can cause damage.

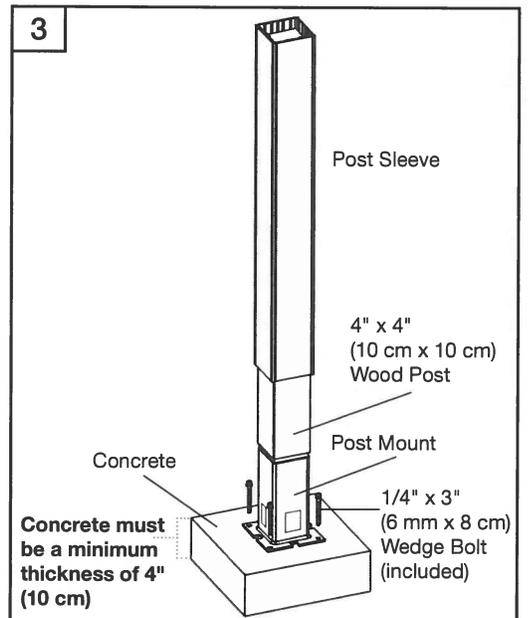
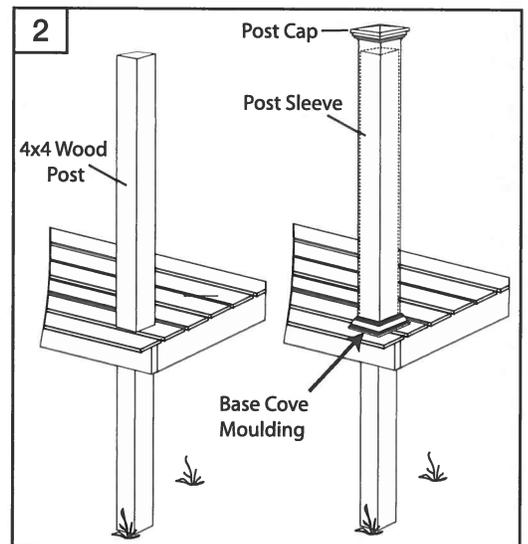
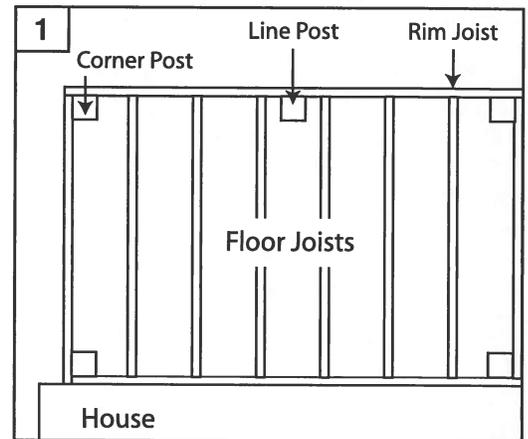
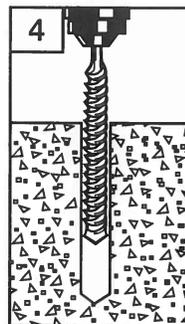
**Post Sleeve Surface Mount (Kits Sold Separately)**

Use the Post Sleeve Mount to install Post Sleeves directly onto the deck or porch surface. Post Sleeve Mounts are available for concrete or wood/composite surfaces. When installing a Post Sleeve Mount on a concrete surface, the support system is anchored into the concrete. When installed on a wood or composite deck, the support system is installed before the deck surface has been attached. Follow these guidelines to complete the post installation:

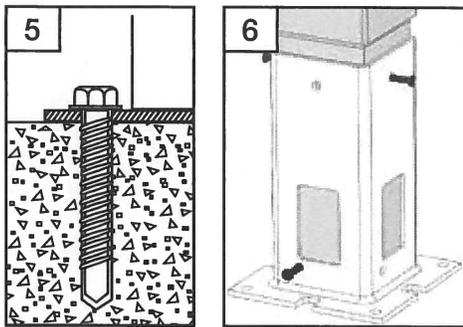
**For Concrete**

Concrete Must Be a Minimum of 4" (10 cm) Thick (Figure 3).

1. Determine the desired location(s) and finished height of the Post Sleeve from the deck surface.
2. Trim the Post Sleeve to the desired length.
3. Trim the length of the 4" x 4" (10 cm x 10 cm) wood post. The wood post length is typically 1" - 2" (3 cm - 5 cm) shorter than the Post Sleeve length.
4. Use the base of the mount as a template and mark the four corner holes for the concrete Wedge-Bolt® anchors
5. Drill the marked holes using a 1/4" (6 mm) masonry drill bit. Drill the holes into the concrete base to a depth of at least 1/2" (1 cm) deeper than the length of the 1/4" x 3" (6 mm x 8 cm) Wedge-Bolt anchors. Blow the hole clean of dust and debris (Figure 4).

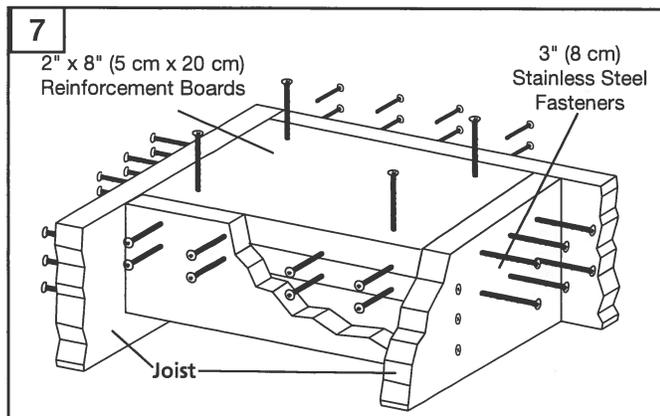


6. Locate the mount by aligning the mount corner holes over the drilled holes.
7. Insert the four concrete Wedge-Bolt anchors into the corner holes of the mount. Begin tightening the Wedge-Bolt anchor by rotating clockwise and applying pressure in toward the base. This will engage the first few threads as the Wedge-Bolt anchor begins to advance. Continue to tighten until the head of the Wedge-Bolt anchor is firmly seated against the post mount (Figure 5). Repeat for the remaining Wedge-Bolt anchors.
8. If necessary, place a shim under the mount to make the post plumb and true. To secure wood insert to surface mount bracket, use three #8 x 1" (3 cm) flat head screws (Figure 6).
9. Insert the trimmed end of the 4" x 4" (10 cm x 10 cm) wood post into the mount. Ensure that the post is plumb and true.
10. Slide the Post Sleeve over the 4" x 4" (10 cm x 10 cm) treated wood post until it contacts the base of the mount.

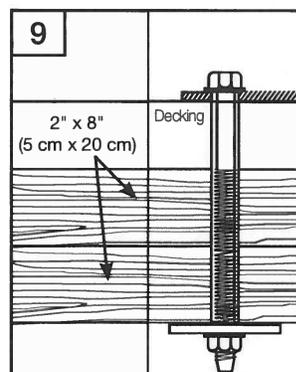
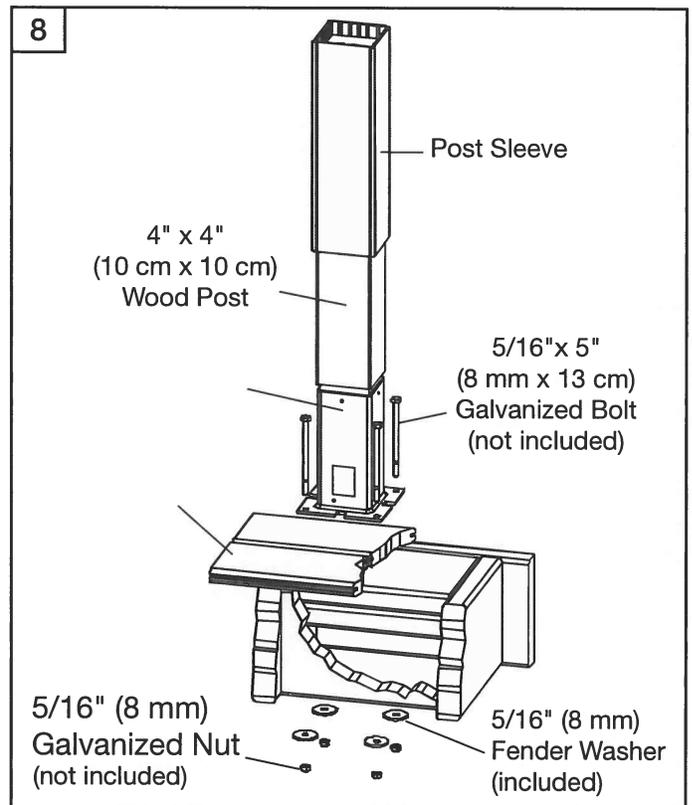


**For Wood**

1. Determine the desired location(s) and finished height of the Post Sleeve from the deck surface.
2. The thickness of the wood/composite deck and reinforcement boards underneath the deck should be a minimum of 4" (10 cm). (Two treated and structurally sound 2" x 8" (5 cm x 20 cm) lumber under the deck board, (Figure 9). Fasten the reinforcement boards with 3" (8 cm) stainless steel fasteners as shown (Figure 7).
3. Trim the Post Sleeve to the desired length.
4. Trim the length of the 4" x 4" (10 cm x 10 cm) wood post. The wood post length is typically 1" - 2" (3 cm - 5 cm) shorter than the Post Sleeve length.
5. Use the base of the mount as a template and mark the four corner holes on the deck surface. Mark inside square of bracket on deck surface.



6. Drill four 3/8" (10 mm) holes at the marked locations, drilling through the deck board and the reinforcement boards. Drill 3/8" (10 mm) drainage hole in square through deck board and reinforcement boards for drainage.
7. Locate the mount by aligning the mount corner holes over the drilled holes.
8. Insert the 5/16" x 5" (8 mm x 13 cm) galvanized hex bolts into the mount holes and the drilled holes. (**galvanized bolts & nuts are not included**)
9. Fasten the four bolts underneath the reinforcement boards with the 5/16" (8 mm) fender washer (included in kit) and 5/16" (8 mm) galvanized hex nuts (not included) (Figure 9).
10. Insert the trimmed end of the 4" x 4" (10 cm x 10 cm) wood post into the mount. Ensure that the post is plumb and true.
11. If necessary, place a shim under the mount to make the post plumb and true. To secure wood insert to surface mount bracket, use three #8 x 1" (3 cm) flat head screws (not included) (Figure 6).
12. Slide the Post Sleeve over the 4" x 4" (10 cm x 10 cm) treated



wood post until it contacts the base of the mount.

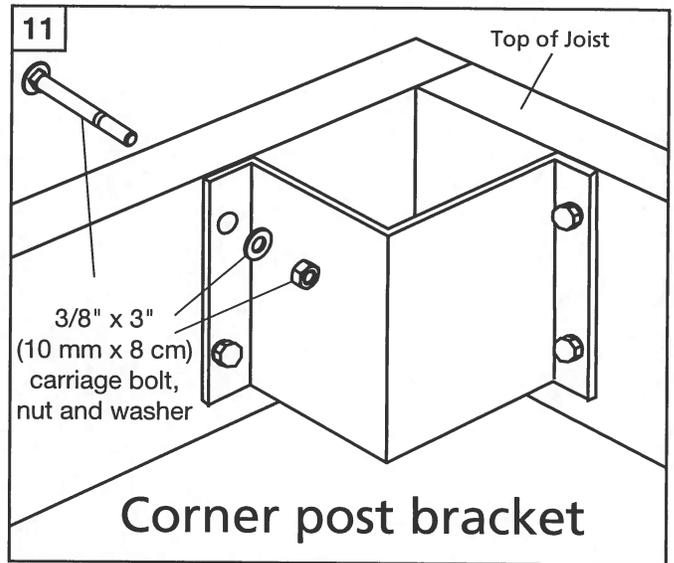
**Joist Mount Brackets for 54" (137 cm)**

**White Structural Post Only (Sold Separately)**

Use Joist Mount Brackets on projects where framing is fully exposed (Figure 1). In new construction, Joist Mount Brackets are attached to the inside of the framing before the porch flooring or decking is installed. Joist Mount Brackets may be used to install railing on existing decks provided the framing underneath is exposed to permit proper installation. Joist Mount Brackets can be used in a corner or line application and bolts directly to the framing with four galvanized carriage bolts. Follow these guidelines to complete the post installation:

*Note: When installing 8' (2.4 m) sections in regions requiring 1999 Standard Code compliance, the standard Joist Mount Bracket may not be used. Use either the Pro Joist Mount Bracket, the Surface Mount Bracket or the vinyl sleeve option. When in doubt, check with your local Building Inspections Department.*

1. Determine position of the posts on the framing (Figure 1).
2. Position Joist Mount Bracket flush with top of framing at each post location (Figure 10).
3. Use the Joist Mount Bracket as a template for hole location. With a pencil, mark hole positions on the framing.
4. For corner posts, remove the side plate from the bracket (10).



5. Mark hole positions on framing (Figure 11).
6. Drill holes at desired locations using a 7/16" (11 mm) drill bit.
7. Attach brackets to rim joists using four 3/8" x 3" (10 mm x 8 cm) galvanized carriage bolts (not included), washers and nuts. (At this point, do not fully tighten).
8. Insert post into bracket until bottom of post contacts stop tab on bottom of bracket (Figure 12).
9. Fully tighten carriage bolts and nuts to secure post in place. Ensure that post remains plumb.

