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Legacy report on the BOCA® National Building Code/1999 and the 1998 International One-and Two-Family Dwelling Code®**DIVISION: 06—WOOD AND PLASTICS****Section: 06500—Structural Plastics****Section: 06610—Plastic Railings and Guards****REPORT HOLDER:****OUTDOOR TECHNOLOGIES INC.****1576 MAGNOLIA DRIVE
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www.otivynyl.com****ADDITIONAL DISTRIBUTOR:****LANSING BUILDING PRODUCTS****8501 SANFORD DRIVE
RICHMOND, VIRGINIA 23228****EVALUATION SUBJECT:****TECK DECK FLOORING AND GUARDRAIL SYSTEMS****EVALUATION SCOPE:**

Compliance with the following codes:

BOCA® National Building Code/1999

- Section 106.4 Alternate materials and equipment
- Section 1604.5.4 Floors
- Section 1606.1 Design live load
- Section 1606.4 Loads on handrails, guards, grab bars and vehicle barriers
- Section 1609.1.4 Uplift resistance
- Section 1710.1 General
- Section 1710.3.1 Test procedure
- Section 2305.14 Flooring
- Section 1021.2 Height
- Section 1021.3 Opening limitations
- Section 1705.2 Inspection of fabricators
- Section 1404.2 Durability

1998 International One-and Two-Family Dwelling Code®

- Section 108.1 Alternate materials, methods and equipment
- Section 301.6 Deflection
- Section 301.4 Live load
- Section 301.2 Climatic and geographic design criteria

DESCRIPTION

Teck Deck Flooring and Guardrail Systems are manufactured by extruding a modified Polyvinyl Chloride (PVC) material into profiles. Teck Deck Flooring and Guardrail Systems are used as alternatives to combustible flooring, guardrail and stair tread systems for exterior balconies, porches, decks and similar appendages for buildings of combustible construction where the floor/ceiling assemblies are permitted to be unprotected construction.

TECK DECK FLOORING SYSTEM

Teck Deck Flooring System consists of a two-piece flooring plank, and various trim accessories.

■ Two-Piece Flooring Plank

The two-piece flooring plank has nominal dimensions of 5.625 inches (143 mm) in width by 1.5 inches (38 mm) in height and is available in lengths of 10, 12 and 16 feet (3048, 3658 and 4877 mm). The flooring plank is composed of a top and a bottom component. See Figure 1 of this report for an illustration of the top and bottom components (unassembled).

The bottom component, which forms the structural portion of the two-piece flooring plank, is extruded with horizontal and vertical ribs varying in thickness from 0.04- to 0.115-inch (1.0 to 2.9 mm). The bottom component is attached to supporting construction, such as wood joist framing members, at maximum spacings of 16 inches (406 mm) on center, using two No. 10 by 1.5-inch-long (38 mm) self-tapping stain-less steel screws at each joist.

The top component, which forms the walking surface, is 0.070-inch-thick (1.8 mm), available in lengths of up to 160 feet (49 m), and is manufactured with a textured top surface. The top component snaps onto the bottom component. See Figure 2 of this report for an illustration of the assembled flooring plank.

■ Trim Accessories

Fascia, Joist Covers and End Caps are nonstructural, modified PVC components, intended as decorative trim.

■ End Caps

The ends of the Teck Deck flooring planks are covered either with U-Channel, L-Channel, T-Channel or End Cap trim components, all of which are nonstructural and made from the same modified PVC material as the deck component. The U-Channel trim forms a continuous edge trim over flooring plank ends. L-Channel trim forms a continuous edge trim over flooring plank ends along the intersection of the flooring and a building. T-Channel trim forms a continuous edge trim over

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flooring plank ends that butt together, at a joint. Channel trim components are attached to every other flooring plank with No. 8 by 0.75-inch-long (19 mm) stainless steel screws, or PVC pin fasteners, provided by the manufacturer. End Cap trim, which is available in two types (flush or overlapping cap), forms a decorative cover at the end of each individual flooring plank, and is attached to the flooring plank with two PVC pin fasteners per End Cap, provided by the manufacturer.

TECK DECK GUARDRAIL SYSTEM

Teck Deck Guardrail Systems are composed of post covers, post inserts with prefabricated mounting plates or angles, horizontal top and bottom rails, horizontal top and bottom rail inserts, vertical balusters, rail to post brackets, post base trim and post cover caps to form a guard 36 or 42 inches (914 or 1067 mm) above the floor surface when assembled. Teck Deck Guardrail Systems are manufactured as railing systems under various brand names. See Table 1 of this report for dimensions of the various Teck Deck Guardrail System models, styles and brand names. See Table 2 of this report for descriptions of the Teck Deck Guardrail System components used with the various Teck Deck Guardrail System models, styles and brand names. See Figure 3 of this report for an illustration of the Teck Deck Guardrail System.

■ Post Cover

Vertical post cover, post base trim and post cover cap components are nonstructural and are manufactured from modified PVC. Post Covers are manufactured unrouted or routed to accept the Top and Bottom Rails and Rail Insert components. If the Post Covers are routed, structural metal post inserts are used to anchor the guardrail system to supporting wood construction (joists) or a concrete slab. Post Covers are also used to cover a nominal 4-inch-by-4-inch (102 mm × 102 mm) structural wood post, which is fastened to supporting wood construction (joists). Top and Bottom Rails and Rail Insert components are attached to PVC railing brackets, which are fastened through the PVC Post Cover to the structural wood post.

■ Post Inserts

The vertical post insert assembly consists of a 0.148-inch-thick-by-1.5-inch-wide-by-1.5-inch-deep-by-37.25-, 44- or 50-inch-long (3.76 mm by 38 mm by 38 mm by 946, 1118 or 1270 mm) galvanized steel tube manufactured in accordance with ASTM A 513. A 0.06-inch-thick-by-3.67-inch-wide-by-3.67-inch-long (1.52 mm by 93 mm by 93 mm) or a 0.06-inch-thick-by-4.67-inch-wide-by-4.67-inch-long (1.52 mm by 119 mm by 119 mm) galvanized steel flat plate manufactured in accordance with ASTM A 366.

For attachment to wood supporting construction a 0.25-inch-thick-by-3.9-inch-wide-by-3.9-inch-long-by-4.25-inch-high (6.4 mm by 99 mm by 99 mm by 108 mm) galvanized steel angle manufactured in accordance with ASTM A 611, is fastened at the bottom of the steel tube with fillet welds. The angle is fastened to the supporting wood construction (joists) with four $\frac{3}{8}$ -inch-diameter-by-4-inch-long (9.5 mm by 102 mm) carriage or hex head bolts with washers and nuts and two 0.25-inch-thick-by-4.0-inch-wide-by-4.25-inch-long (6.35 mm by 102 mm by 108 mm) galvanized backing plates manufactured in accordance with ASTM A 611. See Figure 4 of this report.

For attachment to concrete supporting construction, a 0.25-inch-thick-by-3.425-inch-wide-by-3.68-inch-long (6.35 mm by 87 mm by 93 mm) galvanized steel base plate manufactured in accordance with ASTM A 611, is fastened at the bottom of the steel tube with fillet welds. The plate is fastened to the concrete slab with four 0.25-inch- (6.4 mm) or 0.375-inch-diameter-by-3.25-inch-long (9.5 mm by 82 mm) expansion anchors in accordance with the anchor manufacturer's instructions. See Figure 5 of this report.

■ Top and Bottom Rails

Horizontal top and bottom rail components are non-structural and manufactured from modified PVC with openings to accept the vertical baluster components. The horizontal rail components are reinforced with internal "U" or "J" shaped rail insert components.

■ Top and Bottom Rail Inserts

Rail inserts are galvanized steel or aluminum "U" or "J" shaped components used to transfer structural loads to wood or steel post inserts. Rail inserts are connected to the top plate, which is placed over the post insert and secured with one No. 12, 1-inch-long (25.4 mm) self-tapping screw. An expandable metal clamp is then installed over the post insert. Alternatively, brackets can be used to fasten the top and bottom rail inserts to the nominal wood posts. See Table 2 of this report for dimensions and material descriptions of the various rail inserts used in the Teck Deck Guardrail Systems.

■ Baluster

Vertical baluster components are manufactured from modified PVC. The baluster components are inserted into the openings provided in the horizontal top and bottom rail components. The openings in the horizontal top and bottom rail components are spaced such that the clear distance between the vertical baluster components, when installed in each opening, is less than 4 inches (102 mm).

■ Rail to Post Brackets

Brackets are manufactured from modified PVC. Brackets are used to connect the top and bottom rails/rail inserts to the post covers/wood posts. A bracket is fastened to each rail/rail insert with two No. 8, 0.75-inch-long (19.0 mm) stainless steel screws. Four No. 10, 2-inch-long (51 mm) stainless steel screws are used to fasten each bracket through the post cover to the nominal 4-inch-by-4-inch (102 mm by 102 mm) wood post. The wood post is fastened to the supporting wood construction (joists) with four 0.375-inch-diameter (9.5 mm) by minimum 6-inch-long (152 mm) carriage or hex head bolts with washers and nuts and two 0.25-inch-thick-by-4.0-inch-wide-by-4.25-inch-long (6.35 mm by 102 mm by 108 mm) galvanized backing plates manufactured in accordance with ASTM A 611. See Figure 6 of this report.

CONDITIONS OF USE

This report is limited to the applications and products as stated in this report. The ICC-ES Subcommittee on National Codes intends that the report be used by the code official to determine that the report subject complies with the code requirements specifically addressed, provided that this product is installed in accordance with the following conditions:

- Teck Deck Flooring and Guardrail Systems shall be installed in accordance with the manufacturer's published installation instructions and this report.
- Teck Deck Flooring and Guardrail Systems shall be limited to use as flooring, guardrail and stair tread systems for exterior balconies, porches, decks, and similar appendages for buildings of combustible construction where the floor/ceiling assemblies are permitted to be unprotected construction.
- Use of Teck Deck Flooring and Guardrail Systems as a component of a fire-resistance rated assembly is outside the scope of this report.
- Teck Deck Flooring shall be limited to applications requiring a maximum uniformly distributed live load of 100 lbf/ft² (4.8 kPa) and a maximum uniformly distributed uplift load of 35 lbf/ft² (1.7 kPa). Other loading conditions are outside the scope of this report.

- The construction supporting Teck Deck Guardrail System shall be capable of supporting a 200 pound (890 N) concentrated load applied in any direction to the top rail. In jurisdictions adopting the BOCA® *National Building Code/1999*, the construction supporting Teck Deck Guardrail System shall also be capable of supporting a 50 lbf/ft (730 N/m) uniform load applied in any direction to the top rail, and a 50 lbf (222 N) load applied over a 1 ft² (0.093 m²) tributary area of the balusters.
- Maximum spacing of the construction supporting Teck Deck Flooring (joists), shall be 16 inches (406 mm) on center.
- Maximum spacing of the construction supporting Teck Deck Flooring used as stair treads, shall be 12 inches (305 mm) on center.
- Supporting construction of Teck Deck Flooring and Guardrail System, is outside the scope of this report and shall be designed and constructed in accordance with the BOCA® *National Building Code/1999* and the 1998 *International One-and Two-Family Dwelling Code*®, as applicable.
- Maximum cantilever of Teck Deck Flooring shall be limited to 6 inches (152 mm).
- The bottom component of the Teck Deck flooring plank shall be fastened to each supporting member (joist) with two minimum No. 10, 1.5-inch-long (38 mm) stainless steel screws.
- Teck Deck Flooring shall be installed at temperatures between 50 and 90 degrees F (10 and 32 degrees C).
- The coefficient of friction of Teck Deck Flooring has been determined to be 0.709 for dry conditions and 0.708 for wet conditions when tested in accordance with ASTM C1028. The appropriateness of the determined coefficient of friction, with respect to the requirements for slip resistance in Section 1005.4 of the BOCA® *National Building Code/1999*, is subject to the specific approval of the code official.
- The use of Teck Deck Guardrail System top rail components as handrails has not been evaluated and is outside the scope of this report.
- When used as stair treads, Teck Deck Flooring shall be limited to applications requiring a maximum concentrated live load of 300 lb (136 kg) on an area of 4 in.² (2580 mm²). Other loading conditions are outside the scope of this report.
- This report is subject to periodic re-examination. For information on the current status of this report, contact the ICC-ES.
- Architectural Testing Incorporated, Report No. 01-31969.01, dated August 17, 1998 containing testing of Teck Deck Flooring to determine the static coefficient of friction in accordance with ASTM C1028.
- Quality Control Manual and Radco Inspection Procedures for Outdoor Technologies Inc., dated July 1997, revised, July, 2002, prepared by RADCO, signed by representatives of Outdoor Technologies, Inc. and RADCO, containing procedures for maintaining the quality assurance program for Outdoor Technologies, Inc. and establishing RADCO as the third-party inspection agency.
- Architectural Testing Incorporated, Report No. 01-37841.01, dated September 17, 2001 containing results of structural testing of Teck Deck Flooring.
- Architectural Testing Incorporated, Report No. 01-37001.01, dated November 30, 2001 containing structural testing of Teck Deck Guardrail Systems in accordance with the loading requirements of the BOCA® *National Building Code/1999* and the 1998 *International One-and Two-Family Dwelling Code*®.
- Architectural Testing Incorporated, Report No. 01-41108.01, dated March 25, 2002 containing results of structural testing of Teck Deck Flooring.
- Report *Teck Deck Deflection Under 300 LB Load for Various Joist Spacing*, dated May 11, 2002, signed and sealed by E. Williams Jones, Ph.D., P.E., containing calculations that determine the allowable spacing of the supporting construction of Teck Deck Flooring components used as stair treads.
- Report *Design of Supporting Structure for Deck Railing*, dated April 1, 2002, signed and sealed by E. Williams Jones, Ph.D., P.E., containing calculations that determine that the Teck Deck Guardrail Systems components support the loads required by the applicable code.
- U.S. Testing Company Inc., Report No. 740486, dated September 23, 1996 containing results of physical testing of the modified PVC material used to form Teck Deck Flooring and Guardrail System components.
- Western Fire Center, Inc., Report titled *Burning Brand Fire Tests*, dated July 16, 1996, containing results of fire testing of Teck Deck Flooring in accordance with ASTM E108.
- NSF International, Report No. 204157-00, dated April 5, 2000, containing results of physical property testing of the PVC materials in the Teck Deck Flooring and Guardrail Systems.

ITEMS REQUIRING VERIFICATION

The following items are related to the use of the report subject, but are not within the scope of this evaluation. However, these items are related to the determination of code compliance:

- ✓ Construction documents indicating compliance with this report.
- ✓ Design and construction of the supporting construction for the Teck Deck Flooring, Guardrail and stair tread systems.
- ✓ Determination of the requirements for slip resistance in the specific application.
- ✓ Handrails in accordance with the BOCA® *National Building Code/1999* or the 1998 *International One-and Two-Family Dwelling Code*®.

INFORMATION SUBMITTED

- RADCO, Test Report No. RAD-1787, dated November 1996, revised February, 1997, containing results of fire and physical testing of Teck Deck Flooring.

- Outdoor Technologies Inc. *Teck Deck Installation Instructions*, dated September 2001.
- Outdoor Technologies Inc. *Railing Instructions for Wood Sleeving*, dated July 2001.
- Outdoor Technologies Inc. *Railing Instructions Metal Post Insert-Wood Installation*, dated July 2001.
- Outdoor Technologies Inc. *Railing Instructions Metal Post Insert-Concrete Installation*, dated July 2001.

APPLICATION FOR PERMIT

To aid in the determination of compliance with this report, the following represents the minimum level of information to accompany the application for permit:

- The language "See ICC-ES Legacy Report No. 21-26."

Construction documents consistent with this report. These documents shall be prepared by an individual competent and qualified in the application of the structural design principles

involved. For jurisdictions adopting the BOCA® *National Building Code/1999*, the individual shall possess the registration or license in accordance with the professional registration laws of the state in which the project is constructed. For jurisdictions adopting the 1998 *International One-and Two-Family Dwelling Code*®, the seal of an architect or engineer shall be provided on the details and specifications when required by the code, the code official or the statutes of the jurisdiction in which the project is to be constructed.

- On center spacing of the supporting construction for decking and stair treads.
- Maximum design live load imposed on Teck Deck Flooring.
- Type and location of fasteners to secure the Teck Deck Flooring and Guardrail Systems to the supporting construction.

- For jurisdictions adopting the BOCA® *National Building Code/1999*, structural calculations and details verifying the ability of the building structure to support all superimposed loads required by Chapter 16 of the code; and
- For jurisdictions adopting the 1998 *International One-and Two-Family Dwelling Code*®, details and specifications verifying that the building structure complies with the code.

PRODUCT IDENTIFICATION

Teck Deck Flooring and Guardrail Systems, or their packaging, manufactured in accordance with this report shall bear the following identification:

- “See ICC-ES Legacy Report Report No. 21-26.”
- Product name, manufacturer and identification of RADCO, as the third-party inspection agency.

TABLE 1—DIMENSIONS OF TECK DECK GUARDRAIL SYSTEMS

Railing System Model Style / Brand Name	Dimensions (inches)				
	Overall ¹ (Height × Length)	Top Rail (Width × Height)	Bottom Rail (Width × Height)	Balusters (Width × Length)	Baluster Spacing ²
Boston/Heritage Bellevue/VinylGard Bristol/DuraVinyl Bristol/Heartland Square (with spindles)/Centurion Vista (with spindles)/Windjammer	36 × 72 36 × 96	3 × 3 square	3 × 3 square	1.5 × 1.5 square spindle	3.185
Georgetown/Heritage Sculpted (with pickets)/Centurion Summit (with pickets) /Windjammer ³	36 × 72 36 × 96 36 × 120 42 × 72 42 × 96 42 × 120	2.75 × 3.5 sculpted	2 × 3 rectangular	1.5 × 1.5 square picket	3.185
St. Charles/Heritage Sculpted (with spindles)/Centurion Summit (with spindles)/Windjammer ³	36 × 72 36 × 96 36 × 120	2.75 × 3.5 sculpted	2 × 3 rectangular	1.5 × 1.5 square spindle	3.185
Diplomat/Heritage	36 × 72 36 × 96 42 × 72 42 × 96	1.5 × 3.5 rectangular	1.5 × 3.5 rectangular	0.875 × 1.5 & 0.875 × 3.5 picket	2.285
Cardinal/VinylGard Classic (with pickets)/Windjammer ³ Richmond/DuraVinyl Richmond/Heartland 2 × 4 (with pickets)/Centurion	36 × 72 36 × 96 42 × 72 42 × 96	1.75 × 3.5 rectangular	1.75 × 3.5 rectangular	0.875 × 1.5 spindle	3.535
Classic (with spindles)/Windjammer ³ Jamestown/VinylGard 2 × 4 (with spindles)/Centurion Williamsburg/DuraVinyl Williamsburg/Heartland	36 × 72 36 × 96	1.75 × 3.5 rectangular	1.75 × 3.5 rectangular	0.875 × 1.5 spindle	3.185
Columbia/VinylGard Jackson/DuraVinyl Jackson/Heartland 2 × 4 (with alternating pickets)/Centurion	36 × 72	1.75 × 3.5 rectangular	1.75 × 3.5 rectangular	0.875 × 1.5 & 0.875 × 3.5 picket	2.285

For SI: 1 inch = 25.4 mm

¹ Height dimension is measured from the top of the horizontal top rail to the top of the floor surface. Length dimension is measured from centerline to centerline of vertical posts.

² Spacing dimension is nominal clearance between balusters.

³ Windjammer is a brand name of the Ted Lansing Corporation.

TABLE 2—COMPONENT DESCRIPTIONS OF TECK DECK GUARDRAIL SYSTEMS

Railing System Model Style / Brand Name	Dimensions (inches) ¹			
	Overall ² (Height × Length)	Top Rail/Insert (Thickness × Width × Height)	Bottom Rail/Insert (Thickness × Width × Height)	Rail to Post Attachment (Thickness × Width × Height)
Boston/Heritage Bellevue/VinylGard Bristol/DuraVinyl Bristol/Heartland Square (with spindles)/Centurion Vista (with spindles)/Windjammer ³	36 × 72 36 × 96	0.105 × 3 × 3/ 0.075 × 2.6 × 2.6 U-shaped 6061-T6 aluminum	0.105 × 3 × 3/ 0.075 × 2.6 × 2.6 U-shaped 6061-T6 aluminum	0.1 × 3.8 × 4.4 bracket to 0.135 × 5 × 5 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
Georgetown/Heritage Sculpted (with spindles)/Centurion Summit (with spindles) /Windjammer ³	36 × 72 36 × 96 36 × 120 42 × 72 42 × 96 42 × 120	0.105 × 2.749 × 3.54 / 0.125 × 2.475 × 1.683 U-shaped 6005-T5 aluminum	0.105 × 2.374 × 3 / 0.0625 × 1.742 × 2.688 J-shaped 3003-H14 aluminum	0.1 × 3.521 × 5.012 or 0.1 × 3.463 × 4.53 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
St. Charles/Heritage Sculpted (with spindles)/Centurion Summit (with spindles)/Windjammer ³	36 × 72 36 × 96 36 × 120	0.105 × 2.749 × 3.54 / 0.125 × 2.475 × 1.683 U-shaped 6005-T5 aluminum	0.105 × 2.374 × 3 / 0.0625 × 1.742 × 2.688 J-shaped 3003-H14 aluminum	0.1 × 3.521 × 5.012 or 0.1 × 3.463 × 4.53 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
Diplomat/Heritage	36 × 72 36 × 96 42 × 72 42 × 96	0.11 × 1.5 × 3.5 / 0.075 × 1.25 × 3.125 U-shaped 6005-T5 aluminum	0.11 × 1.5 × 3.5 / 0.075 × 1.25 × 3.125 U-shaped 6005-T5 aluminum	0.1 × 2.625 × 4.625 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
Cardinal/VinylGard Classic (with pickets)/Windjammer ³ Richmond/DuraVinyl Richmond/Heartland 2 × 4 (with pickets)/Centurion	36 × 72 36 × 96 42 × 72 42 × 96	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.1 × 2.625 × 4.625 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
Classic (with spindles)/Windjammer ³ 2 × 4 (with spindles)/Centurion Jamestown/VinylGard Williamsburg/DuraVinyl Williamsburg/Heartland	36 × 72 36 × 96	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.1 × 2.625 × 4.625 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert
Columbia/VinylGard Jackson/DuraVinyl Jackson/Heartland 2 × 4 (with alternating pickets)/Centurion	36 × 72 42 × 72	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.115 × 1.75 × 3.5 / 0.04 × 1.219 × 3 U-shaped CS Type B galvanized steel	0.1 × 2.625 × 4.625 bracket to 0.12 × 4 × 4 post cover & 4 × 4 wood post or one #12 self tapping screw to the top plate of the post insert

For **SI**: 1 inch = 25.4 mm

¹ Materials are a modified Polyvinyl Chloride (PVC), unless noted.

² Height dimension is measured from the top of the horizontal top rail to the top of the floor surface. Length dimension is measured from centerline to centerline of vertical posts.

³ Windjammer is a brand name of the Ted Lansing Corporation.

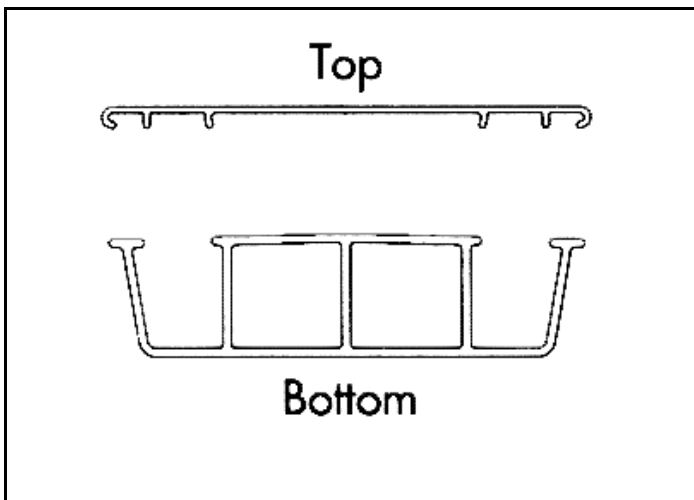


FIGURE 1*—TECK DECK FLOORING COMPONENTS

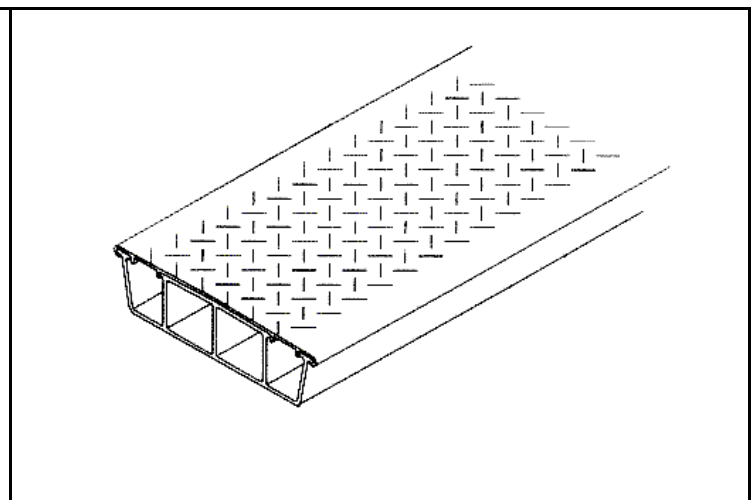


FIGURE 2*—ASSEMBLED TECK DECK FLOORING

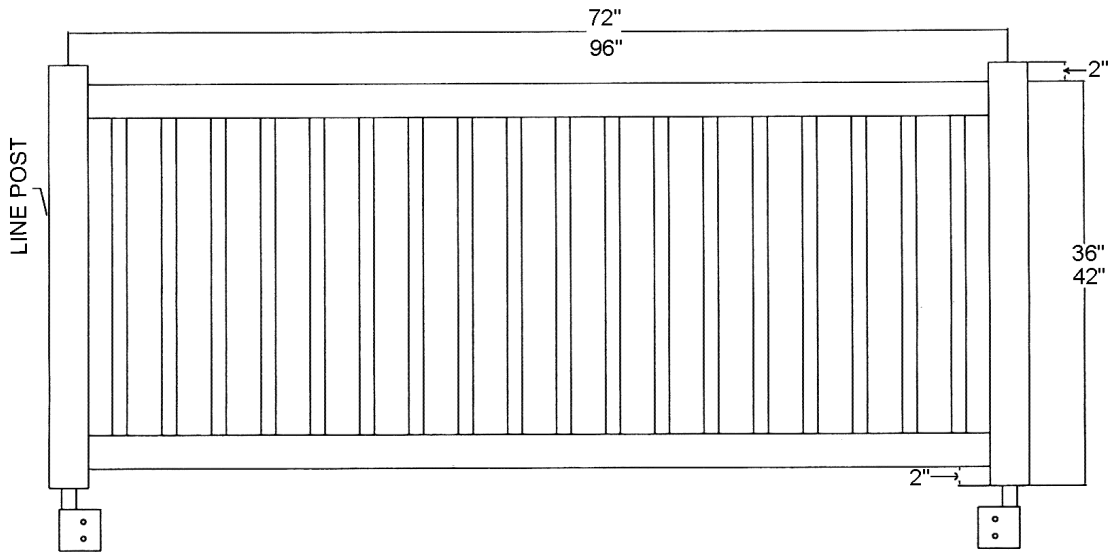


FIGURE 3*—TYPICAL TECK DECK GUARDRAIL SYSTEM

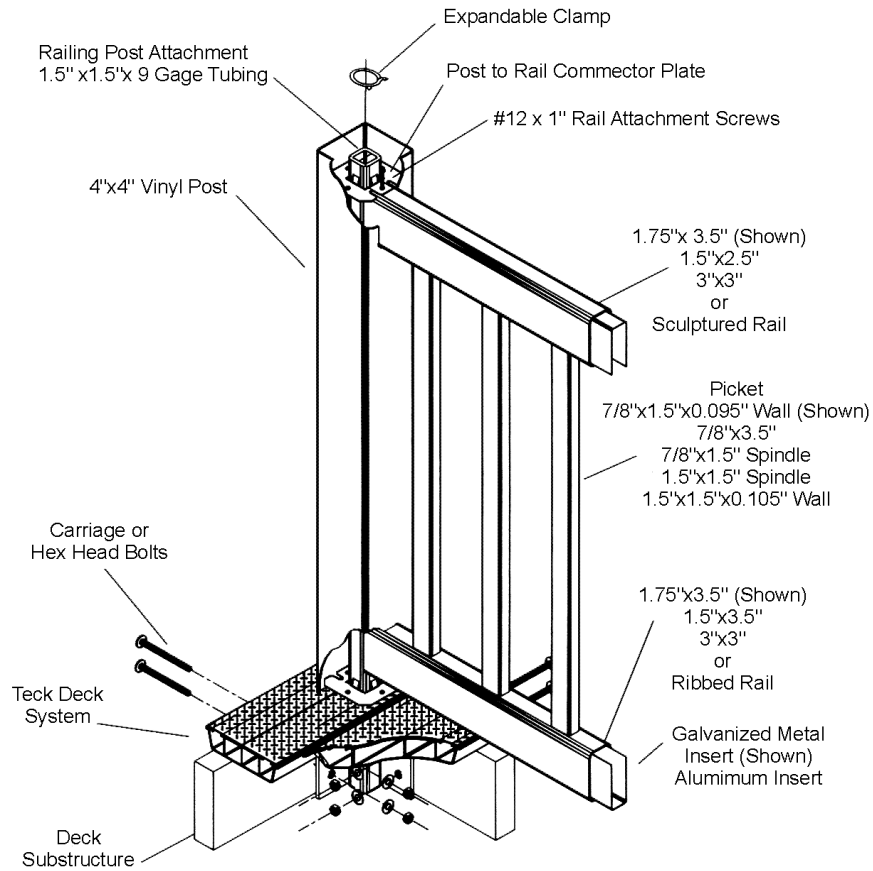


FIGURE 4*—TECK DECK GUARDRAIL SYSTEM (WITH METAL POST INSERT AND WOOD SUPPORTING CONSTRUCTION)

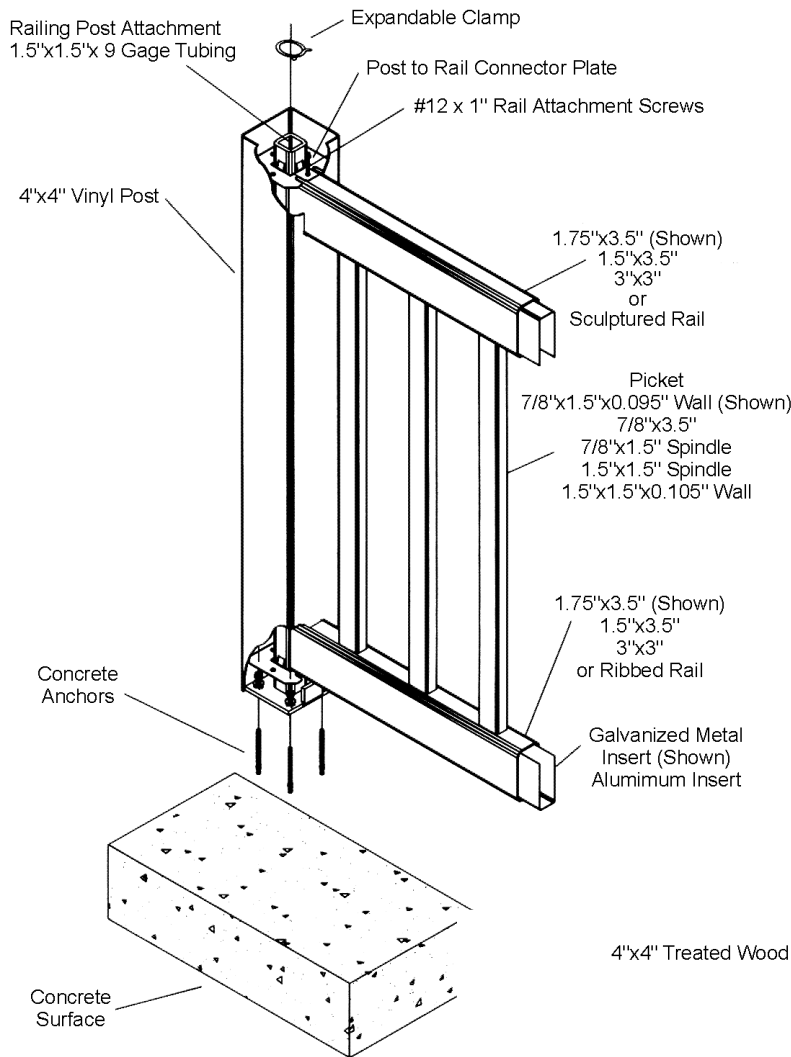
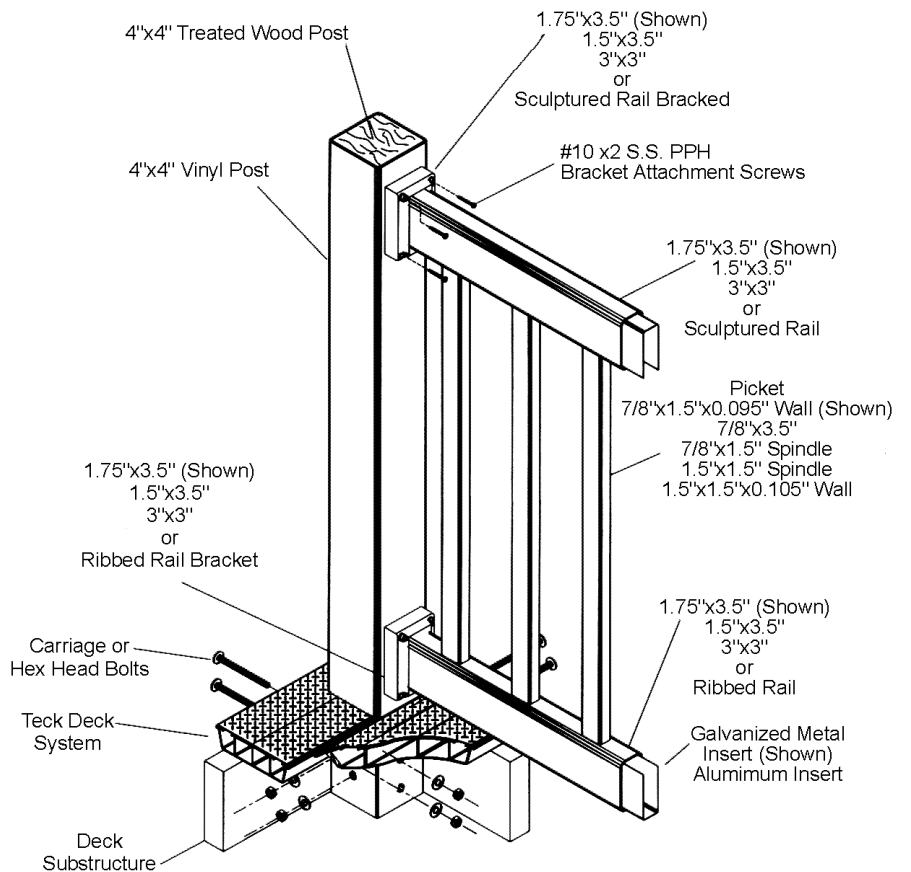


FIGURE 5*—TECK DECK GUARDRAIL SYSTEM (WITH METAL POST INSERT AND CONCRETE SUPPORTING CONSTRUCTION)

FIGURE 6*—TECK DECK GUARDRAIL SYSTEM (WITH WOOD POST INSERT AND WOOD SUPPORTING CONSTRUCTION)



*THESE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT INTENDED FOR USE AS CONSTRUCTION DOCUMENTS FOR THE PURPOSE OF DESIGN, FABRICATION OR ERECTION.