



## COMPOSITE WOOD/PLASTIC RAILING

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### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Composite decking/Railing.

#### 1.2 RELATED SECTIONS

- A. Section 06-1100 - Wood Framing.

#### 1.3 REFERENCES

- A. ASTM D 7032-04 Standard Specification for Establishing Performance Ratings Wood-Plastic Composite Deck Boards and Guardrail Systems.
- B. ICC-ES Acceptance Criteria AC-174 Acceptance Criteria for Deck Board Span Rating and Guardrail Systems.

#### 1.4 DESIGN / PERFORMANCE REQUIREMENTS

##### Structural Performance:

RadianceRail and BuilderRail systems performance meets or exceeds design loading specified in Chapter 16 of the IBC, Section R301 of IRC, and UBC Chapter 16 when tested in accordance with ICC-ES AC174.

- A. Fire-Test-Response Characteristics per ASTM E-84:

#### 1.5 SUBMITTALS

- A. Product Data: Indicate sizes, profiles.

- B. Samples:

- 1.) RadianceRail

- a) 1- 8" Top Rail (Classic Black, Coastal White, Mountain Cedar, RiverRock, or SandRidge)

- b.) 2- 4" Coastal White Support Rail

- c.) 1- 4" Baluster Coastal White

- d.) 1-4" Coastal White Bottom Rail
- 2.) BuilderRail
  - a.) 2- 4" BuilderBoards (Cedar, Grey, or Redwood)
  - b.) 1-4" Black Classic Metal Baluster
  - c.) 1-4" 5/4 Deck Plank (Cedar, Grey, or Redwood)

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Handling:
  1. Never dump TimberTech materials when unloading.
  2. Store on a flat surface and cover with non-translucent material.
  3. When carrying TimberTech planks, carry on edge for better support.
  4. Refer to installation instructions for additional guidelines on each product.

## 1.7 WARRANTY

- A. Warranty: Limited Residential Warranty against rot, decay, splitting, checking, splintering, or termite damage for a period of 25 years beginning from date of purchase under normal conditions of use and exposure.
- B. Warranty: Metal Balusters- Limited Residential Warranty for a period of 10 years beginning from date of purchase under normal conditions of use and exposure.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by: TimberTech Limited, 894 Prairie Avenue, Wilmington, Ohio 45177.
- B. Substitutions: Not permitted under Division 01.

### 2.2 APPLICATIONS/SCOPE

- A. Wood/Plastic Composite Lumber:
  1. Material Description: Composite plank consisting of high density polyethylene (HDPE) and wood flour, extruded into profiles and lengths indicated for the following rail systems:
    - RadianceRail** (36" or 42" Heights)
      - a.) Top Rail -6'-0" or 8'-0" lengths (Classic Black, Coastal White, Mountain Cedar, RiverRock, or SandRidge).
      - b.) Support Rail -6'-0" or 8'-0" lengths (Coastal White)
      - c.) Baluster- available for standard 36" and 42" rail heights and stair (34"-38") heights (Classic Black, Coastal White, Mountain Cedar, RiverRock, or SandRidge).
      - d.) Bottom Rail-6'-0" or 8'-0" lengths (Coastal White)
      - e.) Foot Blocks- (Classic Black, Coastal White, Mountain Cedar, RiverRock, or SandRidge)
      - f.) Mounting hardware provided.

**BuilderRail** (36" or 42" Heights)

- a.) BuilderBoards -6'-0" or 8'-0" lengths (Cedar, Grey, or Redwood)
- b.) Black Classic Metal Baluster- available for 36" and 42" rail heights and stair (34"-38") heights
- c.) 5/4 Deck Plank- **NOT INCLUDED** (Cedar, Grey, or Redwood)
- d.) Foot Blocks-(Cedar, Grey, or Redwood)
- e.) Mounting hardware provided

2.3 ACCESSORIES

Post Covers

- A. Post Skirts
- B. Post Caps

PART 3 EXECUTION

3.1 EXAMINATION

- A. Install according to manufactures instructions.
- B. Cut, and rout using carbide tipped blades.
- C. Pre-drill holes.
- D. Cut ends square.

3.2 CLEANING

- A. Clean surfaces regularly with a composite wood/plastic cleaner such as Corte Clean ([www.corteclean.com](http://www.corteclean.com)).
- B. Power wash with a fan tipped nozzle in the direction of the grain of the planks with a maximum of 1500 psi.

END OF SECTION