

## 1. Product Name

Integrated™ Aluminum Stanchion

## 2. Manufacturer

Formulated Materials, LLC  
3010 NW 149th St., SUITE 100  
Oklahoma City, OK 73134  
Tech Services : (844) 405-3676  
[www.formulatedmaterials.com](http://www.formulatedmaterials.com)  
[www.formulated.info](http://www.formulated.info)

## 3. Product Description

The Integrated™ Stanchion is an anchor component designed to be secured to the structural substrate and then encased in a concrete topping during the pour phase of construction. The stanchion provides the receptor for the Integrated™ Railing Post 3 1/2" (Stanchion Mount), allowing the post to be installed after concrete placement and curing. Proper sealing of the stanchion penetration through the waterproofing membrane is critical to system integrity.

### Key Features

- Designed for cast-in-place concrete installation
- Provides receptor for stanchion-mount railing posts
- Allows post installation after concrete pour and cure
- Engineered to transfer railing loads into the concrete deck structure
- Must be sealed at waterproofing membrane penetration for system integrity
- Compatible with Integrated™ Railing Post 3 1/2" (Stanchion Mount)

### Where to Use

- Concrete-topped balcony decks with waterproofing membrane systems
- Hotel and condominium balconies
- Commercial exterior decks and terraces
- Any application where railing posts are installed after concrete placement

### Product Composition

Extruded 6063-T6 aluminum

### Product Limitations

- Install per current published instructions only.
- Must be secured to structural substrate before concrete pour.
- Stanchion must be installed plumb. A stanchion out of plumb cannot be corrected after concrete is placed.



- Protect stanchion receptor from concrete intrusion during pour.
- Waterproofing membrane must be installed and inspected before stanchion placement.
- The seal between the stanchion and the waterproofing membrane is the single most important weatherproofing detail in a Stanchion Mount installation with Integrated Embed Pan Sealant.
- Limitations not to be construed as all inclusive.

### Packaging

100/pallet (tentative)

## 4. Technical Data

This component is an accessory within the Integrated™ Railing System. Structural performance testing was conducted on the complete railing assembly (Intertek Report P2566.01-119-19 R0, dated 11/16/22). The assembled system met 2021 IBC design load performance requirements. Refer to the structural component TDS documents for detailed test results.

## 5. Instructions

### Tools Required

- Safety glasses
- Tape measure and pencil
- Level (minimum 24")
- Hammer drill (for concrete substrate)
- Drill with appropriate bits
- Chalk line
- Caulk gun and approved Formulated Materials sealant
- Duct tape or cap for receptor protection during pour

### Jobsite Conditions

- Waterproofing membrane must be installed and inspected before stanchion placement.
- Structural substrate must be in place.
- Coordinate with waterproofing and concrete trades.
- Stanchion locations must be marked per railing layout drawings.

### Surface Prep

Confirm waterproofing system is fully installed and inspected. Verify structural substrate is in place and sound. Mark stanchion locations per layout drawings, ensuring internal spacing of 71" for 6' sections or 59" for 5' sections.

### Installation of Product

1. Install Integrated™ Balcony waterproofing per system instructions
2. Using the railing layout plan, measure and mark each stanchion location on the surface of the S60 waterproof membrane. Verify all positions align with structural framing capable of supporting the required load.
3. Position each stanchion at its marked location. Use a level to confirm the stanchion is perfectly plumb in both directions.
4. Secure the stanchion base to the structural substrate using appropriate fasteners per local building code. For concrete substrates, use a hammer drill with approved concrete anchors. For steel or wood, use fasteners rated for the substrate type and required load.
5. Re-check plumb after tightening. Use a level on two perpendicular faces of each stanchion.
6. Place Integrated™ Embed pan over the stanchion and install per the Formulated Materials Integrated™ waterproofing instructions or the Embed Pan TDS.
7. Apply approved waterproofing-compatible sealant around the full perimeter of each stanchion at the membrane penetration. Follow sealant manufacturer instructions.
8. Verify a continuous, watertight seal at every stanchion location before authorizing the concrete pour.
9. If specified, wrap or sleeve the upper portion of each stanchion to protect from concrete splatter.
10. Coordinate with the concrete contractor to ensure stanchions are not disturbed during the pour.
11. Allow the concrete topping to fully cure per mix design specifications before proceeding to post installation.

### Storage & Protection

- Store in a dry area.
- Protect from physical damage.
- Keep receptor openings covered.

### Health Precautions

- Follow all local safety regulations, including OSHA Section V: Chapter 4 for Fall Protection in Construction.
- Always wear safety glasses when cutting, drilling, and assembling the product. Use hearing protection when operating power saws.
- Always review the full label and Safety Data Sheet (SDS) for detailed precautionary instructions before use.

### Conformance to Building Codes

Installation must comply with all applicable local, state, and federal codes, regulations, and industry standards. The installer is solely responsible for ensuring compliance with all local building codes and safety requirements, and for obtaining all required building permits.

## 6. Availability

Item	Description	Size	Qty/Unit	Per Pallet
10607	Stanchion	5-3/16" x 5-3/16"x 8"	100/pallet	100

## 7. Product Warranty

For details and complete warranty information, visit [www.formulatedmaterials.com](http://www.formulatedmaterials.com).

## 8. Product Maintenance

Properly installed products do not require ongoing maintenance. For coastal installations (within one mile of saltwater coastline), clean railing surfaces quarterly with mild soap and water to maintain finish warranty coverage. Refer to the Integrated™ Railing System Limited Warranty for complete care and maintenance requirements.

## 9. Technical Services Information

For Technical Services, contact Formulated Materials at (844) 405-3676.

## 10. Filing System

Additional product information is available from Formulated Materials upon request.



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