

## 1. Product Name

Integrated™ Leveling Shim  
(Recommended for Leveling Base in Surface and Stanchion Mount)

## 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™ Leveling Shim is a component designed to assist in leveling the railing post base on sloped or uneven deck surfaces. In Direct Mount installations, the leveling plate is placed between the post mounting flange and the deck surface, and leveling bolts allow fine-tuned alignment. For Stanchion Mount installations, shims distribute leveling stud force for precision plumb adjustments.

### Key Features

- Allows precise leveling of post base on sloped or uneven surfaces
- Recommended for both Direct Mount and Stanchion Mount installations
- Eliminates substrate deflection under leveling studs.
- Fine-tune alignment with leveling bolts (Direct Mount)
- Compatible with all Integrated™ Railing System post types

### Where to Use

- Any Integrated™ installation where deck surface is sloped or uneven at post locations

### Product Composition

442 ferritic stainless steel

### Product Limitations

- Use as a leveling aid only.
- Install per current published instructions only.
- Limitations not to be construed as all inclusive.

### Packaging

100/box



## 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

- Level (minimum 24")
- Tape measure
- 1/2" wrench or socket (Direct Mount)

### Jobsite Conditions

- Deck surface must be clean at post location.
- Determine shim requirements before beginning post installation.

### Surface Prep

Clean deck surface at each post location. Assess slope or unevenness and determine leveling shim quantity and orientation.

### Installation of Product

1. For Direct Mount: Place the leveling plate between the post mounting flange and the deck surface before securing the post.
2. Position fasteners through the flange and leveling plate into the structural framing. Partially tighten.
3. Using a level, confirm the post is plumb. Using a 1/2" wrench or socket, turn leveling bolts to fine-tune alignment.
4. Once plumb and square, fully tighten all fasteners.
5. For Stanchion Mount: Place shims under the flange of the stanchion before adjusting the pitch and plumb of the stanchion base with leveling studs.
6. Verify plumb after shimming and before final set screw tightening.

#### Storage & Protection

- Store in original packaging.
- Keep in a dry area.

#### 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
10609	Leveling Shim	5 3/16" x 5 3/16"	100	10,000

## 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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