

### 1. Product Name

Integrated™ 3/4" x 39" Picket

### 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™ 3/4" x 39" Picket (baluster) is a powder-coated extruded 6063-T6 aluminum baluster with 0.050" wall thickness. Balusters are inserted into pre-routed holes in the top and bottom rails and are spaced to meet building code requirements for maximum opening size (typically 4" or less). Each 5' rail section uses 13 balusters; each 6' section uses 16 balusters.

#### Key Features

- Extruded 6063-T6 aluminum construction with 0.050" wall thickness
- 3/4" square profile
- 39" length
- AAMA 2604 powder-coated finish
- Designed to meet code-required maximum baluster spacing
- Inserts into pre-routed holes in Integrated™ top and bottom rails
- In-fill achieved 2.5x design load without failure (Intertek Report P2566.01-119-19 R0)

#### Where to Use

- Multifamily balconies and walkways
- Hotel and condominium balconies
- Commercial exterior decks and terraces
- Apartment complexes
- Renovation of aging wood frame or concrete structures

#### Product Composition

Extruded 6063-T6 aluminum with AAMA 2604 powder-coated finish

#### Product Limitations

- Install per current published instructions only.
- Balusters may need to be trimmed to length for stair sections.
- Apply two coats of Formulated Materials Touch-Up Paint to all cut surfaces.
- Verify baluster spacing meets applicable building code.
- Limitations not to be construed as all inclusive.



#### Packaging

2,400 per pallet

### 4. Technical Data

#### Applicable Standards

Standard	Description
2021 IBC	International Building Code®, International Code Council
2021 IRC	International Residential Code®, International Code Council
IBC Ch. 17	Structural Tests and Special Inspections

#### Structural Performance

Test	Design Load	Result
In-Fill	Load at Center	50 lb/sq ft Achieved 2.5x (128 lb) without failure
In-Fill	Load at Bottom	50 lb/sq ft Achieved 2.5x (129 lb) without failure
Recovery from 2.0x Design Load	—	91–96%

Structural performance testing was conducted by Intertek Building & Construction (Report No. P2566.01-119-19 R0, dated 11/16/22) in accordance with the 2021 IBC on the Integrated™ Railing System. The 72 in wide by 42 in high guardrail assembly with 3-1/2 in post mount met the 2021 IBC design load performance requirements. All tested components achieved 2.5 times design load without failure. Anchorage of support posts to the supporting structure was not included in the scope of testing and must be evaluated separately per project requirements.

## 5. Instructions

### Tools Required

- Rubber mallet
- Safety glasses and gloves
- Metal saw with carbide-tip blade (if trimming for stair sections)
- File
- Formulated Materials Touch-Up Paint (if cutting)

### Jobsite Conditions

- Assemble balusters into rails on a clean, level surface.
- Cardboard from kit packaging works well as a protective work surface.

### Surface Prep

Confirm top and bottom rails are clean and pre-routed baluster holes are free of debris.

### Installation of Product

1. Lay the bottom rail on a level surface with pre-routed holes facing upward.
2. Using a rubber mallet, firmly hammer each baluster into the holes in the bottom rail until it bottoms out. A distinct metallic sound indicates full seating.
3. Verify all balusters are standing straight and fully inserted before proceeding.
4. Lay the top rail on a clean, level surface with holes facing upward.
5. Lift the bottom rail assembly (with balusters attached) and flip it over.
6. Align the balusters with the corresponding holes in the top rail. A second person is recommended.
7. Using a rubber mallet, firmly hammer across the bottom rail from one side to the other until all balusters are properly seated in both rails.
8. For stair sections: balusters may need to be trimmed to length. After cutting, file edges smooth, remove shavings, apply two coats of Touch-Up Paint.

### Storage & Protection

- Store in a dry, covered area.
- Keep balusters bundled and supported to prevent bending.
- Avoid contact with dissimilar metals.
- Rest on non-abrasive material.

### 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
10603	3/4" x 39" Picket	3/4"x 3/4"x 39"	2,400/pallet	2400

## 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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