Poly RAIL® Systems

VINYL RAILING

MADE IN THE USA
Whether you want to make your home impressive, comfortable, traditional, or distinctive - PolyRail® Vinyl Railing is designed with you in mind. PolyRail® Vinyl Railing offers a comfortable feel with a traditional look and features a wide range of styles, colors, and applications to enhance your vision. Just imagine the possibilities; after all, your home is your masterpiece.

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COLORS

VINYL COLORS

DSI Vinyl Products are available in three colors. Our Mocha color is available for select products. Please see individual product pages for availability.

ALUMINUM COLORS

DSI Aluminum Products are offered in 12 standard AAMA 2604 colors. Custom colors and AAMA 2605 colors are available by special order.

EXCLUSIVE DSI POWDER COATING PROCESS

DSI’s aluminum Powder Coating offers an uncompromising quality created by state-of-the-art technology. Our system provides the highest quality powder coating on the market with a lifetime limited warranty giving you peace of mind in your investment.

1. The raw premium-grade aluminum is inspected to be free of blemishes and is not exposed to the outdoor elements.
2. The product enters a heated acidic cleaning stage to remove extrusion debris and fabrication oils.
3-6. The powder coating is then bonded and adhered to the aluminum substrate in a 400 degree cure stage.
7-8. A 200 MPH air blast removes water drops from the pre-treated aluminum. A convection oven completes the dry-off process.
9. Powder is applied with 18 automated and 2 manual spray guns. Compressed process air is dried to -35°F Dew Point for superior adhesion.
10. Clean: City water rinse
Cleaner: Recycling reverse osmosis water rinse
Cleanest: Pure reverse osmosis water rinse
Sealer: Dried-in-place aluminum sealer
CARDINAL VINYL RAILING
**CARDINAL RAILING**

**STANDARD BALUSTER**
7/8” x 1-1/2” Rectangular Vinyl
2-7/8” Baluster Spacing

**“A” SERIES BALUSTER**
7/8” x 1-1/2” Decorative Vinyl
2-7/8” Baluster Spacing
42” Balusters are Aluminum Reinforced

**“B” SERIES BALUSTER**
3/4” Round Aluminum
3’-7/8” Baluster Spacing
See Page 1 for Baluster Colors

<table>
<thead>
<tr>
<th>Section Type</th>
<th>Length</th>
<th>Height</th>
<th>Baluster Style</th>
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<tbody>
<tr>
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<tr>
<td>Stair</td>
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Note: Railing Support included with all 8’ - 10’ sections. 16’ Crossover Sections include two Railing Supports.
FALCON RAILING

STANDARD BALUSTER
1-3/8" x 1-3/8" Square Vinyl
3-1/2" Baluster Spacing

“A” SERIES BALUSTER
1-3/8" x 1-3/8" Decorative Vinyl
3-1/2" Baluster Spacing
42" Balusters are Aluminum Reinforced

“B” SERIES BALUSTER
3/4" Round Aluminum
3-7/8" Baluster Spacing
See Page 1 for Baluster Colors

Note: Railing Support included with all 8’ - 10’ sections. 16’ Crossover Sections include two Railing Supports.
RAVEN RAILING

STANDARD BALUSTER
7/8” x 1-1/2” Rectangular Vinyl
2-7/8” Baluster Spacing

“A” SERIES BALUSTER
7/8” x 1-1/2” Decorative Vinyl
2-7/8” Baluster Spacing
42” Balusters are Aluminum Reinforced

“B” SERIES BALUSTER
3/4” Round Aluminum
3-7/8” Baluster Spacing
See Page 1 for Baluster Colors

<table>
<thead>
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<th>Section Type</th>
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Note: Railing Support included with all 7’ - 10’ sections. 14’ and 16’ Crossover Sections include two Railing Supports.
**T-BIRD RAILING**

**STANDARD BALUSTER**
1-3/8" x 1-3/8" Square Vinyl
3-1/2" Baluster Spacing

**“A” SERIES BALUSTER**
1-3/8" x 1-3/8" Decorative Vinyl
3-1/2" Baluster Spacing
42" Balusters are Aluminum Reinforced

**“B” SERIES BALUSTER**
3/4" Round Aluminum
3-7/8" Baluster Spacing
See Page 1 for Baluster Colors

<table>
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Note: Railing Support included with all 8’ - 10’ sections. 16’ Crossover Sections include two Railing Supports.

**CROSSOVER**

**DOUBLE CHIPPEDELETE**
HIDDEN SCREW RAIL MOUNTS

STANDARD WALL MOUNTS:
1-4 pack is included inside each boxed railing section.
A 4 pack contains (2) top mounts, (2) bottom mounts, and screws.

STANDARD STAIR MOUNTS:
1-4 pack is included inside each boxed stair railing section.
A 4 pack contains (2) top mounts, (2) bottom mounts, and screws.
For Stair Racking information visit polyrail.com

OPTIONAL SPECIALTY MOUNTS:
These mounts are not included with boxed sections.
A 4 pack contains (2) top mounts, (2) bottom mounts, and screws.

8" AND 10" ROUND COLUMN ADAPTERS

RAIL SUPPORTS

"B" Series Aluminum
GATES & HARDWARE

CARDINAL GATE

RAVEN GATE

FALCON GATE

T-BIRD GATE

Matching gates available for each style of railing • Aluminum Reinforced Frame • Available in 36”W and 48”W openings • Special Width Gates Available Upon Request

<table>
<thead>
<tr>
<th>Baluster Style</th>
<th>36” x 36”</th>
<th>48” x 36”</th>
<th>36” x 42”</th>
<th>48” x 42”</th>
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<td>Standard Baluster</td>
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<tr>
<td>“A” Series Baluster</td>
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<td>•</td>
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<tr>
<td>“B” Series Baluster</td>
<td>•</td>
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RESIDENTIAL HINGE

RESIDENTIAL LATCH

Mocha is available for select products. Please see individual product pages for availability.
VINYL POSTS SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>4&quot; Post Sleeve</th>
<th>5&quot; Post Sleeve</th>
<th>5&quot; Support Post</th>
<th>6&quot; Post Sleeve</th>
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</thead>
<tbody>
<tr>
<td><strong>Heights</strong></td>
<td>38&quot;, 44&quot;, 48&quot;, 54&quot; 8', 9', 10'</td>
<td>38&quot;, 44&quot;, 48&quot;, 54&quot; 8', 9', 10'</td>
<td>8', 9', 10'</td>
<td>38&quot;, 44&quot;, 48&quot;, 54&quot; 8', 9', 10'</td>
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<tr>
<td><strong>Load Capacity</strong></td>
<td>Non-Load Bearing w/o Wood Post</td>
<td>Non-Load Bearing w/o Wood Post</td>
<td>8' = 12,000 lb.</td>
<td>Non-Load Bearing w/o Wood Post</td>
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</tbody>
</table>

VINYL POSTS

5" Square Support Posts are Reinforced with Sturdy Corrugated Aluminum

VINYL POST CAPS

- Flat Cap 4", 5", 6"
- Trim Cap 4", 5"
- Gothic Cap 4", 5"
- Ball Cap 4", 5"

MAGENA STAR

Magen Star Ornamental Low Voltage and Solar Lights. Visit magenastar.com for more information and to see additional styles.

VINYL POST FLAIRS

- 4" Flair (1-piece) Use with IBC/IRC Post Mount and Sleeve
- 4" Flair (2-piece) Use with IBC/IRC Post Mount and Sleeve
- 4" Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount and Sleeve
- 5" Flair (1-piece) Use with Square Support Posts or Sleeves
- 6" Decorative Flair (1-piece)
**4” RESIDENTIAL ADJUSTABLE ALUMINUM POST MOUNTS**

ReQUIRES 4” (.160” WALL) POST SLEEVE.

Top View
Powder coated base plates resist corrosion and ACQ wood treatment.

- Angle Adjustment Leveling Bolts
- Heavy-Duty
- Standard

**TOP AND BOTTOM POST MOUNTS**

5” Top & Bottom Hurricane Mount Set (Included with all 5” Square Support Posts)

Optional 4” Top and Bottom Post Mount Plates

**4” IBC AND IRC POST MOUNTS**

**IBC (HEAVY DUTY) POST MOUNTS:**
- IBC Approved
- 3.62” Tube
- .060” Wall
- ½” x 5½” square plate with 8 fasteners
- Shims and leveling bolts included

Top View

- 43” IBC Post Mount Available in 37”, 43”, 47” & 53” lengths
- 37” IRC Post Mount Available in 37”, 43”, 47” & 53” lengths

Requires 4” (.135” WALL) Post Sleeve
Note: 5” and 6” Post Mounts available. Contact Customer Service for information.

**IRC (STANDARD) POST MOUNTS:**
- IRC Approved
- 3.62” Tube
- .060” Wall
- ¼” x 5½” square plate with 4 fasteners
- Shims and leveling bolts included

Top View
“A” SERIES DECORATIVE VINYL POSTS

POSTS

“A” Series Decorative Post Caps are Easily Attached with Vinyl Adhesive
Cap is Included with Post

FLAIRS

SUPPORT POST MOUNTS

SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>4” “A” Series Post</th>
<th>4” “A” Series Support Post</th>
<th>5” “A” Series Support Post</th>
<th>5” Victorian Support Post</th>
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<tbody>
<tr>
<td>Heights</td>
<td>38”, 44”, 48”, 52”</td>
<td>9’</td>
<td>9’, 10’</td>
<td>9’</td>
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<tr>
<td>Load Capacity</td>
<td>Non-Load Bearing w/o Aluminum Post Mount</td>
<td>3,900 lb.</td>
<td>9’ = 7,520 lb.</td>
<td>9’ = 7,520 lb.</td>
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</table>

“A” Series and Victorian Support Posts are Reinforced with Sturdy Aluminum

White

Tan

“4” Flair (1-piece) Use with IBC/IRC Post Mount

4” Flair (2-piece) Use with IBC/IRC Post Mount

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

4” Top & Bottom Post Mount Plates (Included with all 4” “A” Series Support Posts)

5” Top & Bottom Post Mount Plate Set (Included with all 5” Decorative Support Posts)

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” “A” Series Post

4” “A” Series Support Post

4” “A” Series IRC Post Mount

4” “A” Series Support Post

4” “A” Series IRC Post Mount

4” “A” Series Support Post

5” “A” Series Support Post

5” Victorian Support Post

5” Victorian Support Post

White

Tan

White

Tan

White

Tan

White

Tan

White

Tan

White

Tan

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post

4” Snap Lock Flair (1 or 2 piece) Use with Residential Post Mount

5” Decorative Flair Use with Decorative Support Posts

Optional 5” Top & Bottom Hurricane Mount Sets are Tested for High Wind Loads for 5” “A” Series Post
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>STYLES</th>
<th>CAP</th>
<th>FLAIR</th>
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<tbody>
<tr>
<td>The Wood Post Supplies Load Capacity</td>
<td>Column Clad Cap 4”, 6”</td>
<td>Column Clad Flair (4-piece) 4”, 6”, 8”</td>
</tr>
<tr>
<td>Ratchets to Lock Together</td>
<td>Wraps Around the Wood Post – No Screws Needed</td>
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**STYLES**
- **4” Smooth Column Clad**: 8’6”, 10’
- **6” Smooth Column Clad**: 8’6”, 10’
- **4” Fluted Column Clad**: 8’6”, 10’ (Special Order)
- **6” Fluted Column Clad**: 8’6”, 10’ (Special Order)
- **8” Fluted Column Clad**: 10’ (Special Order)

**FLAIR**
- **Column Flair**
  - 4”, 6”, 8”

**CAP**
- **Column Clad Cap**
  - 4”, 6”

### Materials
- **Vinyl Post Wraps**: Column Clad Flair (4-piece)
  - 4”, 6”, 8”

### Specifications
- **Heights**: 8’6”, 10’ (Special Order)
- **Load Capacity**: Non-Load Bearing w/o Wood Post
### "B" SERIES ALUMINUM POSTS

#### POSTS

- 4" Post Sleeve (.065" wall)
- 4" Post w/Plate (.090" wall)
- 6" Post w/Plate (.090" wall)
- 4" Support Post (.090" wall)
- 6" Support Post (.090" wall)

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>4&quot; &quot;B&quot; Series Post Sleeve</th>
<th>4&quot; &quot;B&quot; Series Post w/Plate</th>
<th>6&quot; &quot;B&quot; Series Post w/Plate</th>
<th>4&quot; &quot;B&quot; Series Support Post</th>
<th>6&quot; &quot;B&quot; Series Support Post</th>
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<tbody>
<tr>
<td>Actual ASD Load Bearing Capacity</td>
<td>Non-Load Bearing w/o Wood Post</td>
<td>Non-Load Bearing</td>
<td>Non-Load Bearing</td>
<td>8' = 13,531 lb.</td>
<td>8' = 16,543 lb.</td>
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<td>9' = 12,751 lb.</td>
<td>9' = 16,543 lb.</td>
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<td>10' = 11,970 lb.</td>
<td>10' = 16,543 lb.</td>
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#### TIE DOWN BRACKET

- Tie Down Bracket with Cover (Set of 2)
- Installation Instructions Require 2 Sets per Support Post

#### FLAIRS

- Post Flair (2-piece) 4" & 6"

#### CAPS

- Flat Cap 4" & 6"
- Ball Cap 4"

See Page 1 for Color Options
### ADA COMPLIANT HANDRAIL

A variety of rail lengths and accessories complete this system. Available in 8', 10', & 16' Rail Lengths. Available in all the colors shown on page 1.

#### STAIR APPLICATION
- **1** - 1-3/8" Handrail (8', 10', & 16')
- **2** - Internal Connector
- **3** - Collar Rings (to cover splice)
- **4** - Internal End Cap
- **5** - 180° Elbow
- **6** - Adjustable Elbow
- **7** - 90° Elbow
- **8** - Inside Corner Mount & 90° Elbow Detail
- **9** - Extended Wall Mount Detail
- **10** - 90° Welded Elbow Detail
- **11** - Wall Return
- **12** - Wall-End Mount

#### DECK APPLICATION
OF PRODUCTS

We have tried to make this catalog comprehensive and factual. We reserve the right to discontinue at any time, without notice, colors, materials, equipment and availability. Since some information may have been updated since the time of printing, we are not responsible for typographical or pictorial errors. Materials shown may vary slightly from actual colors. ©Digger Specialties 2019/02 99694