

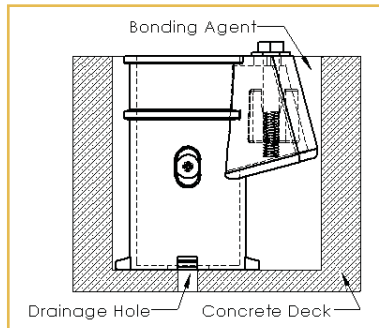
# How to Install your NEW S.R.Smith Handrail or Ladder

## Retrofitting onto Existing Deck

- Core drill a minimum 4" diameter hole for a standard bronze or 5" diameter hole for a universal anchor at least 1/2" deeper than the anchor depth.
- Clean and completely dry the hole with a pipe cleaner and shop vacuum.
- Ensure that the drain hole at the bottom of the anchor is not plugged to prevent corrosion. **Refer to Figure below.**
- Set anchor flush with deck, with wedge oriented away from pool. **Refer to Figure below.**
- Bond anchor to existing rebar in deck. **Make sure to follow NEC or local building codes.**
- Use either epoxy or compression cement with a minimum of 3,000 PSI. Epoxy or cement not included.
- Allow epoxy or cement to cure per manufacturer's instructions.

## New Construction

- Set anchor flush with the deck, with wedge oriented away from pool. **Refer to Figure below.**
- Bond anchor to rebar in deck. **Make sure to follow NEC or local building codes.**
- Pour concrete with minimum compression strength of 3,000 PSI. Concrete not included.
- Allow cement to cure per manufacturer's instructions.
- Install the ladder or rail into the anchor.



## Replacing an Existing Rail

- Measure existing rail dimensions. See "Getting the Right Fit" below.
- Determine your replacement rail.
- Remove existing ladder or rail from anchors by untightening the wedge.
- Install new ladder or rail into existing anchors.

**GETTING THE RIGHT FIT**

When measuring your current rail for a replacement, take the following measurements.

Width Dimension

Anchor Distance

Height Dimension

Center Dimension

Download our rail identification guide at [www.srsmith.com/railid](http://www.srsmith.com/railid)

| ARTISAN RAIL MODEL              | EASILY REPLACES                       |
|---------------------------------|---------------------------------------|
| Artisan Hand Rail               | Figure 4                              |
| Artisan Stair Rail              | 5' 2-Bend or<br>5' 3-Bend Stair Rails |
| Artisan Ladder                  | 24" 3-Step Ladder                     |
| Artisan Deck-Mounted Stair Rail | DMS-100, 101,<br>102 & 103            |
| Artisan Deck-Mounted Hand Rail  | Deck Mounted Rail<br>50-902           |

## Suggested Anchor Types

| Part Number | Description               | Tubing          |
|-------------|---------------------------|-----------------|
| AS-100P     | Universal Anchor, Plastic | 1.90" OD Tubing |
| AS-100B     | 4" Bronze Anchor          | 1.90" OD Tubing |
| AS-200B     | 4" Bronze Anchor          | 1.50" OD Tubing |

## Anchor Placement

The table below outlines the distance between anchors and the minimum anchor setback. Before installing make sure to follow NEC or local building codes.

| Rail Type                       | Distance between Anchors<br>(On Center) | Anchor Setback       |
|---------------------------------|---|----------------------|
| 4' 2-Bend                       | 4'-0"                                   | 6" minimum           |
| 5' 2-Bend                       | 5'-0"                                   | 6" minimum           |
| 6' 2-Bend                       | 6'-0"                                   | 6" minimum           |
| 4' 3-Bend                       | 4'-0"                                   | 6" minimum           |
| 5' 3-Bend                       | 5'-0"                                   | 6" minimum           |
| 5'6" 3-Bend                     | 5'-6"                                   | 6" minimum           |
| 6' 3-Bend                       | 6'-0"                                   | 6" minimum           |
| 6'-6" 3-Bend                    | 6'-6"                                   | 6" minimum           |
| 7' 3-Bend                       | 7'-0"                                   | 6" minimum           |
| 8' 3-Bend                       | 8'-0"                                   | 6" minimum           |
| 50-901                          | 30"                                     | 6" minimum           |
| 50-770                          | 32"                                     | 6" minimum           |
| 50-902                          | 36"                                     | 6" minimum           |
| 50-766                          | 40"                                     | 6" minimum           |
| 50-903                          | 42"                                     | 6" minimum           |
| Artisan Hand Rail               | 8"                                      | 6" minimum           |
| Artisan Stair Rail              | 5'-0"                                   | 6" minimum           |
| Artisan Ladder                  | 20"                                     | 17.5"                |
| Artisan Deck-Mounted Stair Rail | 8"                                      | 6" minimum           |
| Artisan Deck-Mounted Hand Rail  | 36"                                     | 6" minimum           |
| DMS-100                         | 8"                                      | 6" minimum           |
| DMS-101                         | 8"                                      | 6" minimum           |
| DMS-102                         | 8"                                      | 6" minimum           |
| DMS-103                         | 8"                                      | 6" minimum           |
| Figure 4 (2 sizes)              | 8"                                      | 18" or 22"           |
| Camelback Ladder                | 19" or 20"*                             | 5.5"                 |
| Dade County Ladder (4 sizes)    | 19" or 20"*                             | 19", 27", 29" or 31" |
| Economy Ladder                  | 19" or 20"*                             | 17"                  |
| On-ground Ladder                | 19" or 20"*                             | 6" minimum           |
| P Rails                         | 19" or 20"*                             | 22.75"               |
| Parallel-Look Ladder            | 19" or 20"*                             | 3.5"                 |
| PR 500                          | 8"                                      | 6" minimum           |
| Residential Ladder              | 19" or 20"*                             | 17.5"                |
| Residential Ring                | 3.63"                                   | 19"                  |
| Snap-Lok Ladder                 | 19" or 20"*                             | 17.5"                |
| Spa Rail                        | No Anchor - drills into deck            | 19"                  |

\*Elite models are 20" O.C. and the Econoline models are 19" O.C. See manufacturer's specifications for more product detail.