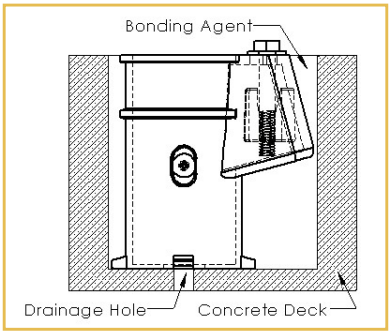
# How to Install your NEW S.R.Smith Handrail or Ladder

## Retrofitting onto Existing Deck

- Core drill a minimum 4" diameter hole for a standard stainless steel or bronze anchor, or 5" diameter hole for a universal anchor at least ½" 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.
- Install the ladder or rail into the anchor.

## 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.

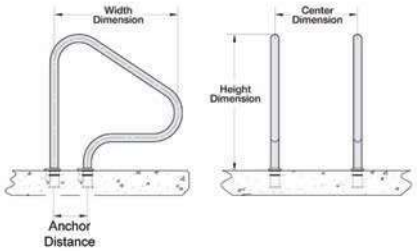



## Replacing an Existing Rail

- 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.




Download our rail identificaion guide at www.srsmith.com/railid

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

## Suggested Anchor Types

| Part Number | Description | Tubing |
|---|---|---|
| AS-104MG | 4" Commercial Stainless steel Anchor | 1.90" OD Tubing |
| AS-100B-SS | 4" Residential Stainless steel Anchor | 1.90" OD 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 | Center to Center of Anchors | 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 |
| DMS-100 | 8" | 6" minimum |
| DMS-101 | 8" | 6" minimum |
| DMS-102 | 8" | 6" minimum |
| DMS-103 | 8" | 6" minimum |
| Figure 4 | 8" | 22" |
| Residential Ring | 3.63" | 19" |
| Spa Rail | No Anchor- drills into deck | 19" |
| 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 |
| Camelback Ladder | 19" or 20"* | 17" |
| Economy Ladder | 19" or 20"* | 17" |
| 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 |

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