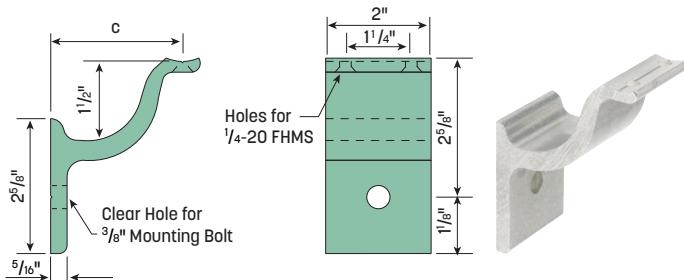
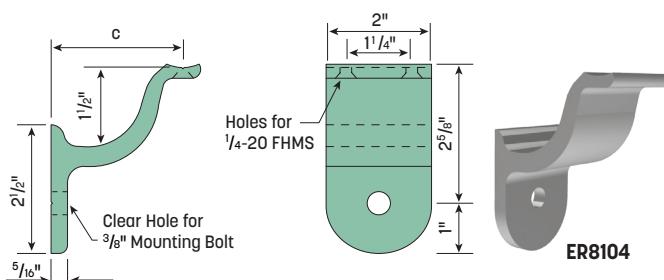


## Extruded Handrail Brackets



**Extruded Handrail Bracket, Square Base**

| C      | BURNISHED* ALUMINUM | ANODIZED ALUMINUM |
|--------|---------------------|-------------------|
| 2 1/2" | <b>ER8103</b>       | <b>ER8003</b>     |
| 3 1/4" | <b>ER8003</b>       | <b>ER8003A</b>    |



**Extruded Handrail Bracket, Round Base**

| C      | BURNISHED* ALUMINUM |
|--------|---------------------|
| 2 1/2" | <b>ER8104</b>       |
| 3 1/4" | <b>ER8004</b>       |

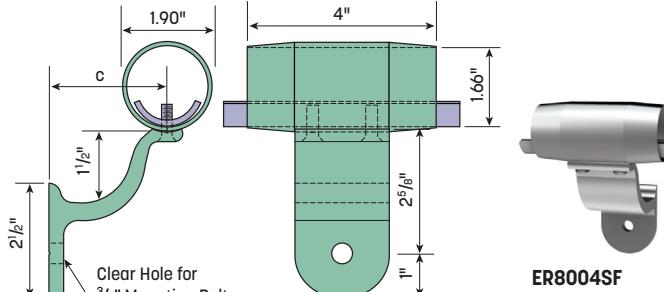
\* A **Burnished Finish** is *tumbled*, but not polished. This removes burrs and creates a "matte" finish.



**Long Length Shape**

The **Extruded Handrail Bracket** shown above is also available in 5' lengths - without holes. Use to create **Brackets** for your specific requirements. Also available in lengths up to 10' - requires shipment by truck.

| C      | lb/ft | length | ALUMINUM                |
|--------|-------|--------|-------------------------|
| 2 1/2" | 2.50  | 5'     | <a href="#">BER8103</a> |
| 3 1/4" | 2.50  | 5'     | <a href="#">BER8003</a> |



**Extruded Wall Mount Slip-Fit™ Bracket**

| C      | SATIN ALUMINUM  |
|--------|-----------------|
| 2 1/2" | <b>ER8104SF</b> |
| 3 1/4" | <b>ER8004SF</b> |

### BUILDING CODE ISSUES

Check with your local code authorities prior to specifying any railing system. The following are the most common requirements in commercial and residential applications:

- **Handrail** is required on stairs and ramps.
- Height: 34 to 38 inches above stair nosings and ramp surfaces.
- Load Requirements:
  - 50 lbs/ft uniform load or
  - 200 lbs. concentrated load
- Clearance:
  - Between wall and Handrail: 1 1/2" minimum
    - Exceptions:
      - NFPA 101: 2 1/4" minimum
      - 1991 ADAAG: 1 1/2" between the wall and Handrail (Updated to 1 1/2" minimum for 2010 ADASAD)
  - Between underside of Handrail and horizontal Bracket Arm:
    - 1 1/2" minimum
    - Exceptions:
      - For each 1/2" of additional Handrail perimeter dimension above 4", the vertical clearance dimension of 1 1/2" shall be reduced by 1/8".

| Railing Diameter | Perimeter | Subtract From Underside of Railing | Clearance From Underside of Railing |
|------------------|-----------|------------------------------------|-------------------------------------|
| 1.25"            | 3.92"     | 0                                  | 1 1/2"                              |
| 1.50"            | 4.71"     | -1/8"                              | 1 3/8"                              |
| 1.66"            | 5.21"     | -1/4"                              | 1 1/4"                              |
| 1.90"            | 5.97"     | -1/2"                              | 1"                                  |
| 2.00"            | 6.28"     | -1/2"                              | 1"                                  |

*Refer to Page 229 for other code related information.*

While the 1991 ADAAG stated that the distance between the wall and **Handrail** had to be 1 1/2", all subsequently published model codes - including the 2010 ADASAD - now state this to be a minimum requirement.

Be aware however that NFPA 101 notes a minimum wall clearance of 2 1/4" between the wall and **Handrail**. Always confirm requirements with the local authority having jurisdiction prior to specifying any **Railing** products.

***Not all Brackets will meet all code requirements. Confirm your local requirements and the Bracket dimensions prior to specifying.***

**NUMBERS IN BOLD TYPE** are typically in stock. Other items may not be available for immediate shipment or are made-to-order - requiring a minimum quantity and a longer lead time. Visit [shopwagner.com](http://shopwagner.com) for availability.