# TSM Guide Specifications

The following brief guide specifications must be edited to fit specific job requirements. For complete guide specifications please see TSM's listing in Sweet's CD.

[SECTION 05520 - Handrails and Railings] [SECTION 05521 - Pipe Railings]

[SECTION 05720 - Ornamental Handrails and Railings]

### PART 1 -- GENERAL

### 1.01 Work Included

A. Furnish and install [standard component,] [custom fabricated,]; [stainless steel] [alurninum] [brass] [bronze] [glass]; [railing system] [handrails] [guardrails].

### 1.02 System Performance Requirements

- A. Check governing codes for requirements. Railings shall meet or exceed the requirements of all appli cable building codes and the Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- B. Provide handrails, guardrails and railing systems from one source to assure consistent quality and appearance.

### 1.03 Submittals

- A. Submit shop drawings and product data under provision of Section [01300] [01340].
- Indicate materials, finishes, dimensions, joining methods, product details and the relationship to adjoining work.
- C. Submit manufacturer's installation instructions under provisions of Section [01300] [01340].

### 1.04 Delivery, Storage and Handling

- A. Deliver materials in protective packaging to avoid damage to the material and finished surfaces.
- Store material properly to avoid damage from abrasion, moisture and other construction activities.
- C. Avoid excessive handling of material at the job site.

### PART 2 -- PRODUCTS

### 2.01 Manufacturer

Provide [railing systems] [handrails] [guardrails] manufactured by **Tubular Specialties Mfg., Inc. (TSM)**, head office located at 13011 South Spring Street, Los Angeles, CA 90061-1685, phone **800-CALL TSM** (800-225-5876) and 310-515-4801, fax 310-217-0653, e-mail tsm@calltsm.com, web-site www. calltsm.com.

### 2.02 Material and Finishes

- A. Provide materials free from surface blemishes where exposed to view in the finished installation.
- B. Stainless Steel: (1). Welded Tubing or Pipe: [Type

- 304] [Type 316] meeting [ASTM A-554] [ASTM A-269] (2). Bars, Shapes and Moldings: Type 304 meeting ASTM A-276 (3). Finish: [Satin Finish, AISI No. 4] [Bright Finish, AISI No. 8] [AISI No. \_\_\_\_].
- C. Aluminum: (1). Extruded Tubing or Pipe: Alloy 6063 T52 meeting ASTM B-221 (2). Reinforcing Bars: Alloy 6061-T6 meeting ASTM B-221 (3). Extruded Bars, Shapes and Moldings: Alloy 6063-T52 meeting ASTM B 221 (4). Finish: [Anodized finish shall be Mill Finish Anodized [AA-M10-C22-A31 (204R1)] [Clear Brushed Anodized (light cir cumferentially brushed finish before anodizing) (AA-M32-C22-A41)] [Powder coated finish shall be \_\_\_\_\_type and \_\_\_\_\_color].

### 2.03 Railing System

A. Material shall conform to 2.02. \_\_\_\_ and be finished in accordance with 2.02. \_\_\_\_. Railing system to be TSM no. \_\_\_\_.

Select railing systems from options below (for details of each railing system see the appropriate section in this catalog or Sweet's CD):

**Series GRD:** Custom Railing and Architectural Metalwork in [Stainless Steel] [Aluminum] [Brass] [Bronze].

Series 300: Stainless Steel Component Wall Rail System.

**Series 400:** Brass Component Wall and Floor Mounted Rail System.

**Series 500:** Stainless Steel Component Floor Mounted Rail System.

Series 550: Stainless Steel Picket Rail System.

Series 600: Aluminum Component Wall and Floor

### MOUNTED RAIL SYSTEM.

**Series 900:** Glass Rail System components in [Stainless Steel] [Aluminum] [Brass].

**Series RU:** Custom Wall Rail System in [Stainless Steel] [Aluminum] [Brass] [Bronze].

**Series U-Line:** Custom Floor Mounted Rail System in [Stainless Steel] [Aluminum] [Brass] [Bronze].

### 2.04 Handrail Brackets

- A. [Stainless steel] [Aluminum] [Brass] [Bronze]
- B. [Extruded] [Cast] [Self-Aligning] [Tubular] [Underslung]

C. TSM No.

### 2.05 Fabrication

- Field verify dimensions prior to shop fabrication of custom work.
- B. Employ smooth curves by bending the material or by using radius elbows as opposed to miter and weld, as much as possible.
- C. Remove all burrs from all exposed edges.
- D. Make exposed hairline joints butt tight and flush.
- E. Use appropriate end cap to close exposed open ends of [tube] [pipe] [handrail].
- F. For posts set in concrete, furnish 4" 6" long sleeves. [Furnish decorative flange TSM No. \_\_ for each embedded post].

### PART 3 -- EXECUTION

### 3.01 Examination/Preparation

- A. Examine railing system components and installation site conditions. Notify in writing if either is unsatisfactory.
- B. Ensure availability of items to be [cast in concrete] [embedded in masonry] [placed in partitions].

#### 3.02 Installation

- A. Install work in accordance with final shop drawings and manufacturer's instructions.
- B. Erect work [plumb] [square and level,] [horizontal or parallel to the slope of steps or ramp,] [and] free from distortion or defects detrimental to appearance or performance.

### 3.03 Cleaning

A. Upon completion of installation, wipe railing with a wet soft cloth (rag) or wash thoroughly using water and soap or a mild detergent. Do not use harsh chemicals such as acid solutions or harsh abrasives such as steel wool.

### 3.04 Repair of Defective Work

A. Remove defective or damaged work and replace with material that meets specification requirements.

### OTHER PRODUCTS OFFERED

In addition to railing systems, TSM offers an extensive line of other products listed below:

Division 10260: Corner Guards - Stainless

Steel and Lexan
Division 10800: Washroom Accessories - 0

: Washroom Accessories - Grab Bars, Shower Seats, etc.

Division 11400: Food Service Equipment -

Sneeze Guards, Wine Racks

Division 13152: Pool Ladders and Rails

Warehouses in California, New Jersey and Washington For more information, request Catalog 825

## Guarantee

TSM guarantees its products against defects in workmanship and materials for one year from shipping date.



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TSM Catalog 804