# Campus Design Standards

## Division 5 – Metals

![University of San Diego](image)

<table>
<thead>
<tr>
<th>Department</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>PDC Manager</td>
<td>Tim Doudna</td>
<td>[Signature]</td>
<td>6/17/19</td>
</tr>
<tr>
<td>PDC Director</td>
<td>Zack Knipe</td>
<td>[Signature]</td>
<td>5/7/2019</td>
</tr>
<tr>
<td>Facilities AVP</td>
<td>André Hutchinson</td>
<td>[Signature]</td>
<td>5/10/2019</td>
</tr>
<tr>
<td>Operations VP</td>
<td>Ky Snyder</td>
<td>[Signature]</td>
<td>6/12/19</td>
</tr>
<tr>
<td>Director Building Maintenance</td>
<td>Robert Brauer</td>
<td>[Signature]</td>
<td>5/7/19</td>
</tr>
<tr>
<td>University Design</td>
<td>Mary Whelan</td>
<td>[Signature]</td>
<td>1/30/2019</td>
</tr>
</tbody>
</table>
05000 – Metals

Introduction

This is a general section referencing all steel products used across campus. Structural steel will be project specific. We have included photos at the end of this section for reference.

Contacts

1. The Project Manager (Planning, Design and Construction)

Index of References

1. USD Master Plan Design Guidelines

Code/ Sustainability References

1. California Building Code
2. LEED Silver (Pursuit of certification on a project by project basis)
3. Building Energy Efficiency Standards
4. California Fire Code
5. ANSI
6. NFPA
7. ASTM
8. ASME
9. UL Listing
10. Title 24

05050 Basic Metal Materials and Methods

Architect/Designer is to follow code of Standard Practice for Steel Building and Bridges

05100 Structural Metal Framing

This standard is Project Specific.

05200 Metal Joists

This standard is Project Specific.

05300 Metal Deck

1. Roof Deck
2. Floor Deck
05400 Cold-Formed Metal Framing

1. Exterior non-load bearing wall framing
   a. Stud Spacing- 16"
   b. Isolate non-load bearing framing from structure to prevent vertical transfer loads

05500 Metal Fabrications

1. Metal ladders

Facilities - Exterior Mounted Roof Ladder

JCP - Interior Roof Ladder
2. Metal Stairs

Mission & Ministry - Ships Ladder
KIPJ - Interior Exit Stair

JCP - Composite Metal & Concrete (Interior use only)
Warren Hall - Exterior Metal Exit Stair
3. Metal Bollards w/ Concrete Fill (domed top)

Mail Center / Maher Annex

05700 Ornamental Metal

1. Ornamental Window Grates

Camino / Founders Bridge

Byster Institute for Nursing Research
2. Ornamental Guardrails

Student Life Pavilion  Shiley Sci-Tech Center

3. Ornamental Handrails

Kroc  Byster Institute for Nursing Research
University of San Diego – Design Standards Manual

4. Ornamental Gates

Byster Institute for Nursing Research

Architecture Pavilion

5. Finish
   a. Galvanizing and Paint (Duplex system)
   b. High-Performance Coating
      i. Benjamin Moore
         2. Intermediate Coat: M73/M75 Aliphatic Urethane Semi-Gloss
         3. Top Coat: M73/M75 Aliphatic Acrylic Urethane Semi-Gloss
      ii. Sherwin Williams
          1. Base Coat: Corothane/ GalvaPac Zinc primer
          2. Intermediate Coat: Macropoxy HS- High Solids Epoxy
          3. Top Coat: Corothane II Satin B65- 200 series
      iii. Tnemec Company
           1. Base Coat- Tneme-Zinc 90.97
           2. Intermediate Coat- Series 27. Hi-bind epoxy
           3. Top Coat- Series 1075 Endura-Shield

05800 Expansion Control

This standard is Project Specific.
05900 Metal Restoration and Cleaning


   1. Manufacturer: RW Little Co.

      3923 Pacific Highway, San Diego CA 92110

      (619)297-3705

      mail@rwlittle.com

Requirements for As-built Drawings

Prior to the completion of construction and occupancy, the subcontractor is required to provide the Project Manager a detailed schedule of materials used in each area of the project, including the manufacturer, supplier, color name and number, pattern and size applied. An electronic version of the final schedule is to be provided as part of the "as-built" documentation for the project. See Appendix 1.2 for Documentation and Archiving.