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**METAL RAILINGS**

**1. GENERAL**

- A. Related sections:
  - i. University of Georgia Planning Principles – Site Campus Planning Principles – Paving – Stairs and Handrails
- B. Exterior free standing handrails at concrete steps shall be mounted on stair treads inside the concrete cheek walls.

**2. PRODUCTS**

- A. Refer to diagram at end of section.
- B. All handrails should be constructed of steel.
- C. Galvanizing: In order to prevent rust at the bottom of the newel posts and newel post collars, all newel posts and newel post collars shall be galvanized inside and out. During the galvanizing, the quenching process shall be omitted. The steel to be galvanized should be properly prepared by the steel fabricator to receive a primer coat of paint. It is the Contractor's option to galvanize just the components in their entirety that will come into contact with the ground or concrete or to galvanize the entire handrail / guardrail assembly.
- D. Exterior free standing handrail
  - i. Steel handrail and channel shall be equal to Julius Blum "Steel Handrail and Steel Channel" – Part Number: 4429.
  - ii. Steel handrail "Lamb's Tongue" terminal shall be equal to Julius Blum "Lamb's Tongue" – Part Number: 4429S. Locate end posts top and bottom to allow lamb's tongue to return to post.
  - iii. Steel newel posts shall be 1 ½" square.
  - iv. Steel newel post collar shall be 1 ½" x 1 ½" inside dimension.
  - v. Steel vertical pickets, if required by code, shall be ¾" x ¾" and equally spaced with maximum clear dimension between vertical pickets per code. Bottom steel channel shall be minimum ½" thick x 1 ½" wide.
- E. Exterior guardrail
  - i. Exterior guardrail with pickets shall be comprised of the same products and sizes listed for 'Exterior free standing handrail.'
- F. Exterior wall mounted handrail
  - i. Steel handrail and channel shall be equal to Julius Blum "Steel Handrail and Steel Channel" – Part Number: 4429.

**3. EXECUTION**

- A. Weld all joints and connections, channels, terminals, and posts (continuous), grind welds smooth prior to priming and painting.
- B. All handrail material to be primed after all field modifications prior to applying paint. All material to receive (2) coats black exterior enamel after installation. Protect all surfaces not receiving paint or primer.
- C. Maintain positive drainage away from the bottom of the newel post.



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Office of University Architects for Facilities Planning

