

SECTION 057220
ALUMINUM HANDRAILS (S-98)

1. SCOPE OF THE WORK: The work includes the furnishings of all labor, materials, equipment and services necessary and reasonable incidental for installing all aluminum handrails including all fittings and attachments required for the completion of the project.
2. MATERIALS: All handrails, posts, fittings, brackets, anchors, etc., required for the installation of all handrails shown on the drawings shall be fabricated of aluminum. The railing system has been designed around ReynoRail II Aluminum Pipe Railing System as supplied by the Architectural and Building Products Division of Reynolds Metals Company. The Connectorial System by Julius Blum and Company, Inc., or any other approved equal will be acceptable.
 - A. Rail, Posts and Formed Elbows: Shall be formed from extruded ReynoRail II 6063 or 6061 aluminum pipe of 1-2 schedule 40 pipe size.
 - B. Other Components: All other aluminum parts shall be fabricated from 6063 or 6061 extruded aluminum. All fittings, except cast bases, shall be a one piece extrusion machined to final shape. Blind rivets and self-tapping screws shall be a furnished by Reynolds Metals Company. No fasteners other than 305 stainless steel shall be used with the ReynoRail II pipe railing system.
3. FINISH: All aluminum railing components shall be clear satin anodized finish on all exposed surfaces. All cast aluminum components shall be 0.4 mil anodized and all extruded components shall be 0.7 mil anodized. All pipe-shaped components shall have a light circumferentially-brushed finish before anodizing. All aluminum pipe and elbows shall be packed and shipped in individual plastic film to protect the anodized finish.
4. INSTALLATION: All handrails shall be installed as recommended by the manufacturer.
5. PROTECTION OF FINISH: The Contractor shall use all precautions necessary to protect the finish from scratches, nicks, gouges, dents, etc., during storage, assembly and installation. Insofar as possible, the plastic film shall be left intact on the pipe until inspection and acceptance by the Owner and/or Engineer.
6. WORKMANSHIP: All pipe cuts shall be square and accurate for minimum joint-gap. Cuts shall be clean and straight, free of "chanafer" from deburring, burrs and nicks. All holes shall be drilled and countersunk the proper size, as required for a tight flush fit of rivets.
7. SHOP DRAWINGS: Complete shop drawings of all handrail installations shall be submitted to the Engineer for approval before any fabrication is commenced. All fittings, connections, splices, anchors, brackets, etc., shall be shown.
8. MEASUREMENT AND PAYMENT: Unless indicated otherwise in the Proposal, Aluminum handrails shall subsidiary and not measured for pay.