

Part 1 General

1.1 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A123 / A123M - 09 Standard Specification for Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products
 - .2 ASTM A153 / A153M - 09 Standard Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware
 - .3 ASTM A307, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength.
 - .4 ASTM F2329 - 11 Standard Specification for Zinc Coating, Hot Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners
- .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G164-M, Galvanisation à chaud des objets de forme irrégulière.
- .3 Canadian Institute of Steel Construction
 - .1 Handbook of steel construction

1.2 SHOP DRAWINGS

- .1 Submit shop drawings and materials list.

1.3 QUALITY CONTROL

- .1 Independent Inspection/Testing Agencies will be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.
- .2 Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
- .3 Allow Departmental Representative access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress
- .4 If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Departmental Representative at no cost to Departmental Representative. Pay costs for retesting and reinspection.

1.4 QUALITY ASSURANCE

- .1 Submit 2 copies of mill test.
 - .1 Mill test reports to show chemical and physical properties and other details of steel to be used.

- .2 Provide structural steel Fabricator's affidavit stating that materials and products used in fabrication conform to applicable material and products standards specified and indicated.

1.5 TRANSPORTING, STORING AND HANDLING

- .1 Packing, Shipping, Handling and Unloading:
 - .1 Deliver, store, handle and protect materials in accordance with Section 01 61 00 – Basic Product Requirements.
 - .2 Handle steel pieces so as to avoid permanent deformations.
 - .3 Handle with care steel pieces that have received a special coating.
- .2 Storage and Protection:
 - .1 Cover exposed stainless steel surfaces with pressure sensitive heavy protection paper or apply strippable plastic coating, before shipping to job site.
 - .2 Leave protective covering in place until final cleaning of building. Provide instructions for removal of protective covering.

Part 2 Products

2.1 MATERIALS

- .1 Mechanical bolts, Lag screw, Drift bolt: to ASTM A307, as indicated
- .2 Nuts and washers: following asked bolts, to develop full strength. Lubricated in accordance with ASTM A563.
- .3 Washers to be of best cast iron quality.
- .4 Hot dip galvanizing: galvanize steel, where indicated, to CAN/CSA-G164, minimum zinc coating of 600 g/m² or ASTM A153 / A153M - 09 Standard Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware.

END OF SECTION