

Part 1 General

1.1 SECTION INCLUDES

- .1 Materials and installation of galvanized sheet steel z-girts as part of exterior wall cladding, and roof construction.

1.2 RELATED SECTIONS

- .1 Section 01 61 00 – Common Product Requirements
- .2 Section 01 74 19 – Construction/Demolition Waste Management And Disposal

1.3 REFERENCES

- .1 American Society for Testing and Materials International (ASTM):
 - .1 ASTM A653M-07 – Sheet Steel, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- .2 Canadian General Standards Board (CGSB):
 - .1 CGSB 1.181-99: Coating, Zinc-Rich, Organic, Ready Mixed

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store, handle and protect materials in accordance with Section 01 61 00.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.

Part 2 Products

2.1 MATERIALS

- .1 Sheet steel: grade A commercial quality to ASTM A653M; with minimum yield point of 228 MPa or Grade 'D' FY 345 MPa; with Z180 galvanized coating.
- .2 Screw fasteners: self-tapping and self-drilling corrosion resistant steel type of size and strength to adequately secure components in place; with heads which, when installed, will not interfere with or prevent the proper installation of other building components.
- .3 Primer: zinc-rich type to CGSB 1.181.

2.2 FABRICATION

- .1 Use minimum 1.27 mm thick sheet steel for Z-girts.
- .2 Fabricate Z-girts square, true, and straight, in accordance with sizes and profiles required to suit installation.
- .3 Form sections in maximum length pieces.
- .4 Verify all dimensions on site prior to shop fabrication.
- .5 Grind down all rough edges and welds.
- .6 Tough up welds using primer. Clean all welds with an aromatic solvent before priming.

Part 3 Execution

3.1 INSTALLATION

- .1 Use screw fasteners to secure Z-girts in place. Secure Z-girts in place with fasteners at maximum 400 mm spacing. Provide rigid and secure assemblies for support of other building components.
- .2 Provide maximum 3 mm space between joining sections to allow for thermal expansion.
- .3 At corners and terminations, locate Z-girts in a manner to adequately “pick-up” other building components being supported.
- .4 After installation, touch up scratched and damaged galvanized surfaces and welds using primer. Clean touched up surfaces and welds with an aromatic solvent before priming.

3.2 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION