

**Part 1 General****1.1 SCOPE**

- .1 The Scope of the work of this Section is to repair and patch holes made in existing building construction and maintain fire separations. Refer to Mechanical and Electrical Sections and drawings for areas that openings in existing construction are required. The scope of this section is to include patching of small areas of gypsum board as needed, contractor to match existing gypsum board assemblies when required.

**1.2 RELATED SECTIONS**

- .1 Division 01-General Requirements.

**1.3 REFERENCES**

- .1 American Society for Testing and Materials International, (ASTM).
  - .1 ASTM C645-11a, Specification for Non-structural Steel Framing Members.
  - .2 ASTM C754-11, Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- .2 Canadian General Standards Board (CGSB).
  - .1 CAN/CGSB-1.40-97, Primer, Structural Steel, Oil Alkyd Type.
- .3 Environmental Choice Program (ECP).
  - .1 CCD-047a -98(R2005), Paints - Surface Coatings.
  - .2 CCD-048-98, Surface Coatings - Recycled Water-borne.

**1.4 QUALITY ASSURANCE**

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

**1.5 SUBMITTALS**

- .1 Submit the following documentation to support Sustainable Considerations.
  - .1 Product Data. – MSDS,, Spec Sheet, Product Label, , post consumer and post industrial recycled content, weight, VOC compliance, Environmental Certification if available (materials).

**1.6 WASTE MANAGEMENT AND DISPOSAL**

- .1 Remove from site and dispose of packaging materials at appropriate recycling facilities.

- .2 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .3 Divert unused metal materials from landfill to metal recycling facility approved by Departmental Representative.
- .4 Divert unused gypsum materials from landfill to recycling facility approved by Departmental Representative.

## **1.7 WORK INCLUDED**

- .1 Supply and install framing and furring for gypsum board patching and installation of mechanical electrical equipment.
- .2 Install sheet metal used for blocking/support.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Non-load bearing channel stud framing: to ASTM C645, sized as noted, roll formed from 0.91mm thickness hot dipped galvanized steel sheet, for screw attachment of gypsum board. Knock-out service holes at 460mm centres.
- .2 Floor and ceiling tracks: to ASTM C645, in widths to suit stud sizes, 32mm flange height.
- .3 Metal channel stiffener: 1.4mm thick cold rolled steel, coated with rust inhibitive coating.
- .4 Sheet metal blocking for wall mounted equipment Center sheet metal on mounting height of anchors. Sheet Metal Blocking: 1.31mm (18ga) thickness hot dipped galvanized steel sheets. Sheet width minimum 300mm.

## **Part 3 Execution**

### **3.1 ERECTION**

- .1 Attach studs to bottom and ceiling track using screws.
- .2 Co-ordinate simultaneous erection of studs with installation of service lines. When erecting studs ensure web openings are aligned.
- .3 Co-ordinate erection of studs with installation special supports or anchorage for work specified in other Sections.
- .4 Where wood blocking still to be installed install double stud framing where wood blocking. Studs to be full height, back to back. Attach studs with sheet metal screws at 400mm oc.
- .5 Install steel studs or furring channel between studs for attaching electrical and other boxes.
- .6 Maintain clearance under beams and structural slabs to avoid transmission of structural loads to studs. Use double track slip joint as indicated.

- .7 Install continuous insulating strips to isolate studs from uninsulated surfaces.

**3.2 CLEANING**

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

**END OF SECTION**