

**PART I – GENERAL****WORK SPECIFIED HEREIN**

All labor, materials, equipment and services necessary to furnish and install all cold-formed steel framing as indicated or specified.

**SUBSTITUTIONS**

In accordance with Section 01600.

**PART II – PRODUCTS****MATERIALS**

- Steel studs shall conform to CAN CSA-S136-07, Design of Cold Formed Steel Structural Members and CAN CGSB-7.1-98, Light weight steel wall.
- Provide shop drawings for all metal studs, with all stud connections and details to be designed by a suitable qualified registered Professional Engineer licensed to practice in the province of Ontario, who's stamp and signature shall be on the shop drawings.
- Bolts and fasteners are to conform to the requirements of A307 or ASTM A325.
- Structural steel studs shall be sizes indicated.

**FABRICATION**

- Option: Provide prefab metal stud truss framing for the front canopy when requested.

**PART III – EXECUTION****INSTALLATION**

- Installation of studs shall be as per CSA Standards CAN/CSA-S16-01 Limit States Design of Steel Structures, CAN/CSA-S136-07, Design of Cold Formed Steel Structural Members, CSA A370 Connectors for Masonry.
- Securely anchor track to floor with 1/2" diameter bolts at 48" o.c. maximum, or with 0.145" Ø powder driven fasteners at 8" o.c. maximum with 2 bolts or fasteners per any track sections.
- Provide top track to accommodate vertical deflection gap to account for movement of the structure. The gap is to be as indicated in the drawings.
- All track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be butt-welded or spliced together.
- All stud bridging shall be attached in a manner to prevent stud rotation. Bridging rows shall be spaced according to Dietrich Indus. recommendations.
- Temporary bracing shall be provided until erection is completed.
- Joists shall be located directly over bearings studs or a load distribution member shall be provided at the top track.

- Provide web stiffeners at reaction points where indicated by plans.
- Stud ends must be squarely seated against the track web. Both stud flanges must be attached to track members at top and bottom by welding flanges to track or with (4) #10 TEK screws, (2) top and (2) bottom. Space studs as indicate don drawings but not greater than 24" o.c. triple up studs with 2 studs full height at all jambs.
- Stud bridging shall be provided by 1-1/2" cold rolled u-channel. The u-channel must be attached to each stud by welding or attaching with clip angles and screws. Horizontal strapping and solid bridging with track members can also be used for bridging. Bridging shall be spaced at 4'-0" o.c. max.
- Brick ties shall consist of "Dur-O-Wal" D/A 210 and D/A 807 screws with D/A 700 series triangle ties at 16" o.c. horizontally and vertically.
- The following minimum cold formed steel attachments shall be provided U.N.O.:
 

|                           |                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Track to Structural Steel | (1) - .145 Ø powder driven fastener @ 2'-8" o.c.                                                                                                    |
| Track to Metal Deck       | (1) - #10 TEK screw @ 1'-4" o.c.                                                                                                                    |
| Track to Masonry          | (1) - .145" Ø powder driven fastener @ 2'-8" o.c.                                                                                                   |
| Stud to Structural Steel  | (1) - L2x2x - 14 ga. clip angle connection w/(2) - #10 TEK screws into metal stud and (2) - .145" Ø powder driven. Fasteners into structural steel. |
- Touch-up field abrasions and welds in the field after erection using the same materials as shop coat paint.

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