MC²
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SPECIFICATION FOR STEEL STUD WALL PANELS

5400 – COLD FORMED METAL FRAMING

2.9 FABRICATION

A. The walls specified herein shall be pre-assembled steel stud wall panels of the size and gauge specified in the structural drawings or as designed by the panel manufacturer.

B. The manufacturer shall submit shop drawings to the framing contractor for approval before fabrication may begin.

C. Wall panels provided shall be equal to the panels provided by Metal Construction Components in Lafayette, IN (765) 448-6106

D. Bearing walls shall be panelized.
   1. Studs shall be compressed into top and bottom track in such as way as to allow no more than $^{3}/_{32}$" gap between the track and the end of the stud.
   2. Studs shall be welded securely to the top and bottom track on the inside and outside of the wall panel.
   3. The center of the member bearing on the wall panel shall be located on the wall panel no more than half the width of a stud away from the centerline of the stud.
   4. Studs shall be located is such a way as to allow all vertical forces to be transferred directly through the stud from roof to floor and/or from floor to floor.

E. Non-bearing wall panels that extend to the underside of a structural member (structural floor deck or steel beam) shall be panelized.
   1. Panels shall extend to approximately 1" below the structure above to allow for deflection of the structure above.
   2. Panels shall be provided with a double track – a track to secure each stud in the panel and deflection track to allow the structure above to deflect without transferring load to the non-bearing wall panel.
   3. Studs shall be securely welded to a top track to maintain stud spacing at the top of the wall.
   4. The deflection track shall be sized to allow the wall panel top track to fit inside.

F. Studs shall be placed in the panels according to the spacing specified in the structural drawings or as designed by the panel manufacturer.
   1. Individual studs shall not be out of place by more than ¼"
   2. At no time shall the accumulative error in stud placement be more than $^{3}/_{8}$".

G. Both flanges of each stud shall be factory welded using a continuous wire fed MIG spot weld process using silicon bronze wire to prevent red rust at weld locations.

H. Panels shall be square when delivered to the job site:
   1. Diagonal dimension shall not deviate from calculated dimension by more than $^{3}/_{32}$"

I. Panel heights shall be equal to the framing height shown on drawings:
    1. Panel heights shall not vary by more than $^{1}/_{16}$”

J. Panel lengths shall be equal to the panel lengths shown on the manufacturer’s shop drawings:
    1. Panel lengths shall not exceed the nominal panel length shown on shop drawings by more $^{1}/_{16}$”.
    2. Panel lengths may be shorter than the nominal panel length shown on the shop drawings by up to $^{1}/_{8}$”.

K. Framed openings shall be located in the panels to coincide with the opening locations shown on the architectural drawings.

L. Framed openings shall be the rough opening size specified in the window schedule.
    1. Opening sizes shall not be less than the size indicated in the window schedule.
    2. Openings shall not exceed the specified opening size by more than ¼”.

M. Framed openings shall be square:
    1. Diagonal dimensions shall not deviate from calculated dimension by more than $^{3}/_{32}$”

N. Stud spacing above and below openings shall remain on the stud spacing increment as required to accept drywall and exterior sheathing and is subject to the same spacing specifications described above.