SECTION 10 22 19.13
DEMOUNTABLE METAL PARTITIONS

MODIFICATION

06-01-12  UPDATE OF STANDARDS
PART 1 - GENERAL

1.1 DESCRIPTION
This section specifies movable partitions, metal faced sandwich type with mineral fiber core, nominal 22 mm (7/8 inch) thick.

1.2 RELATED WORK
A. Electrical Work: Division 26, ELECTRICAL.
B. Door Hardware: Section 08 71 00, DOOR HARDWARE.
C. Color of Finish: Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 DESIGN CRITERIA
A. Floor fastenings:
   Concealed and adjustable to variations in floor level and finish.
B. Door and panel units:
   Interchangeable and not less than 1000 mm (40 inches) wide unless otherwise shown.
C. Partition units containing doors:
   Adjustable vertically and capable of assembly on floors having normal deviations from a plane surface, without cutting the doors.
D. Provide for installation of electrical wiring through vertical and horizontal frame members.

1.4 SUBMITTALS
A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
B. Samples:
   Metal panel, 200 mm (eight inches) square, with baked-on enamel finish, each color.
C. Shop Drawings:
   Complete drawings, 1/2 full scale, showing details of construction and anchorage.

SPEC WRITER NOTE: Update applicable publications to current issue at time of project specification preparation.
1.5 APPLICABLE PUBLICATIONS

A. American Society for Testing and Material (ASTM):
   A1008/A1008M-12 ........ Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low Alloy with Improved Formability, Solution Hardened and Bake Hardened
   C665-11................. Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
   C920-11 ............... Elastomeric Joint Sealants
   C1036-11 ............. Flat Glass
   C1048-04 ............. Heat-Treated Flat Glass

PART 2 - PRODUCTS

SPEC WRITER NOTE: Make material requirements agree with applicable requirements specified in the referenced Applicable Publications. Update and specify only that which applies to the project.

2.1 MATERIALS

A. Sheet Steel: ASTM A1008, Cold-Rolled Commercial Quality of the following thickness:

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Face Sheets</td>
<td>0.9 mm (0.036 inch)</td>
</tr>
<tr>
<td>Top Filler Face Sheets</td>
<td>0.9 mm (0.036 inch)</td>
</tr>
<tr>
<td>End Filler Face Sheets</td>
<td>9 mm (0.036 inch)</td>
</tr>
<tr>
<td>Door Face Sheets</td>
<td>0.9 mm (0.036 inch)</td>
</tr>
<tr>
<td>Glazing Beads</td>
<td>0.9 mm (0.036 inch)</td>
</tr>
<tr>
<td>Door Frames</td>
<td>1.3 mm (0.048 inch)</td>
</tr>
<tr>
<td>Post Caps</td>
<td>1.3 mm (0.048 inch)</td>
</tr>
<tr>
<td>Cornice</td>
<td>1.3 mm (0.048 inch)</td>
</tr>
<tr>
<td>Base</td>
<td>1.3 mm (0.048 inch)</td>
</tr>
<tr>
<td>Wall and Ceiling Channels</td>
<td>1.3 mm (0.048 inch)</td>
</tr>
<tr>
<td>Posts</td>
<td>1.6 mm (0.060 inch)</td>
</tr>
</tbody>
</table>

B. Mineral Fiber Insulation: ASTM C665, Type I.
C. Glazing Cushions:
   1. Channel shaped, continuous, of rubber, vinyl, polyethylene or neoprene.
D. Glass:
   //1. ASTM C1048, Kind FT (tempered, clear), Condition A, Type, I, Class 1, Quality q3, 6 mm (1/4 inch) thick.//
2.2 FABRICATION

A. Panels:
1. Fabricate panels of two steel face sheets with mineral fiber core.
2. Space horizontal steel reinforcements in panels minimum of 300 mm (12 inches) on centers vertically.
3. Spot weld reinforcement to face sheets minimum of 75 mm (3 inches) on centers horizontally.
4. Design panels to facilitate field cutting.

B. Posts:
1. Notch or punch posts for clip connections.
2. Design posts to permit extension of partitions in any or all four directions without disturbing posts in place.
3. Provide convenient access to electrical wiring.
4. Posts caps shall be snap-on type and finish flush with vertical sides of panels.
5. Provide free standing end panels with end posts.
6. Locate switch cutouts 135 mm (54 inches) above finished floor and receptacle cutouts 400 mm (16 inches) above finished floor.

C. Base:
1. Approximately 100 mm (four inches) high with not more than 6 mm (1/4-inch) projection.
2. Provide base on both sides of partitions, adjustable to floor irregularities, and readily removable in unit lengths to afford access to electrical wiring.
3. Provide raceways for electrical wiring.

D. Cornice:
Molded type, approximately 63 mm (2-1/2 inches) high, with provision for electrical wiring.

SPEC WRITER NOTE: Check drawings and verify whether Mineral-Board or Steel Face Filler Panels are required by project. Edit accordingly.

E. Top Fillers (Cornice To Ceiling):
1. Fabricate of two 3 mm (1/8 inch) thick mineral-board face sheets with mineral fiber core, overall thickness same as panels.
2. Seat bottom of sheets in recess formed in top of metal cornice.
3. Secure top of sheets in steel ceiling channels equipped with inorganic compressive seal.
4. Point joints in mineral-board fillers flush, then tape and finish smooth, and ready for painting.
5. Center vertical joints in filler sheets on snap-on post caps below.

F. End Fillers:
1. Fabricate of two steel face sheets with mineral fiber core and finish same thickness as panel units.
2. Fasten end fillers to adjacent panel verticals and fit end fillers into wall channels, fastened to building construction.
3. Design wall channels to provide for compression strip to seal wall irregularities.
4. Make fillers removable without damaging wall.

G. Doors:
1. Flush metal type, 45 mm (1-3/4 inches) thick of size shown.
2. Reinforce doors with internal bracing no thinner than 0.9 mm (0.036 inch) thick sheet steel extending full height of door and spaced not over 150 mm (6 inches) on centers horizontally.
3. Reinforce with 0.38 mm (0.0149 inch) thick continuous truss shaped steel reinforcing extending full height and width of door.//
4. Insulate door panels as specified for partition panels.
5. Reinforce cutouts in doors for hinges, closers, holders, and lock or latch strike points with minimum 11 gage steel plates.
6. Make cut-outs and drilling and tapping of reinforcement for hardware in doors in accordance with templates furnished by hardware manufacturer.
7. Reinforce cutouts and sinkages for mortised template hardware with steel plates and tap as required.
8. Provide 2 mm (3/32 inch) clearance between door at jambs and head, and 19 mm (3/4 inch) clearance between finish floor and bottom of bottom rail.

H. Door Frames:
1. Rabbet frames for doors and reinforce at hinge, closer, and lock points.
2. Make cut-outs and drilling and tapping of reinforcement for hardware on frames in accordance with templates furnished by hardware manufacturer.
3. Provide cut-outs for strike plates and hinges with dust boxes of sheet steel welded to the back of the frames.
4. Drill lock strike jambs of each frame for reception of three mutes as specified in Section 08 71 00, DOOR HARDWARE.
I. Glazing:
   1. Bed glass, except tempered glass, in felt, elastic glazing compound, or putty.
   2. Set tempered glass using resilient glazing cushions.
   3. Provide metal glazing beads, either snap-in type or secure with oval-head screws.
   4. Cope or miter corners.

J. Finish:
   Clean exposed metal surfaces (except stainless steel, non-ferrous and plated metal) of movable partitions free of scale, rust, oil and grease and apply two coats of baked-on enamel finish.

PART 3 - EXECUTION

3.1 INSTALLATION
   A. Install partitions so as to be straight, rigid, securely anchored, plumb and level.
   B. All fastening devices are to be as shown on shop drawings.

3.2 FIELD PAINTING
   Touch-up all nicks and scratches with paint, matching color and texture of baked-on enamel finish, furnished by partition manufacturer.

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