• Gypsum board can be applied vertical (edges parallel to framing) or horizontal (edges perpendicular to framing), for non rated assemblies.

• Gypsum board can be applied vertical or horizontal to a framing system with properly spaced horizontal resilient channels for non rated assemblies.

• For fire and/or sound rated wall assemblies apply the gypsum board in the direction (vertical or horizontal) per the tested assembly.

• Certain designs, such as steel door frame units in relation to the height of the ceiling, may require that gypsum board joints align with the opening.

• Joints (ends or edges) shall be located so that no joint will align with a corner of an opening, except if control joints are to be installed at these locations. Joints shall be a minimum 12 inches from corner (see figures 1 & 2).

• The type and location of control joint shall be at the direction of the architect, owner, or builder.

• In most cases, gypsum board should be applied to ceiling and soffit first, then walls.

• Gypsum board joints shall be in moderate contact (board ends or edges essentially touching each other, but boards need not be in contact the entire length of joint). Non-fire rated assemblies may have some gaps up to a 1/4 inch. These gaps are to be prefilled before finishing. Gypsum board joints for fire rated systems must be in moderate contact. Gaps up to 1/8 inch wide are acceptable. Gaps to be prefilled with setting joint compound before finishing.

• Framing members, wood or steel, to which gypsum board is to be attached shall be straight and true. The attachment surface of any framing member shall not vary more than 1/8 inch from the plane of the faces of adjacent framing members.

• Gypsum board to be tight against the framing members.

• All ends (butts) or edges (paper bound) of board shall be over framing members, except if its perpendicular to framing members.

<table>
<thead>
<tr>
<th>GB THICKNESS</th>
<th>MIN. NAIL LENGTH</th>
<th>MIN. SCREW LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 inch</td>
<td>1 1/8 inch</td>
<td>1 1/8 inch</td>
</tr>
<tr>
<td>5/8 inch</td>
<td>1 1/2 inch</td>
<td>1 3/4 inch</td>
</tr>
</tbody>
</table>

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• Multi-layer gypsum board shall have all joints staggered between base and face of layers.

• All joints on opposite side of partition shall be staggered.

• Screws shall be of sufficient length to penetrate steel framing members not less than 3/8 inch.

• Spacing of nails shall be spaced no more than 7 inches o.c. on ceilings and not more than 8 inches o.c. on walls.*

• Spacing of screws shall be no more than 12 inches o.c. for ceiling and 16 inches o.c. for walls where the framing members are 16 inches o.c. Screws shall be spaced no more than 12 inches o.c. for both ceilings and walls where framing members are 24 inches o.c.*

• Fire rated gypsum board wall or ceiling assemblies may require different types and/or spacing of fasteners. Be sure to review specified tested system before gypsum board application.

• Fasteners shall be located not less than 3/8 inch from the edge or end of gypsum boards.

• Insulation batts and blankets or the flanges of insulation batts and blankets shall not be applied to the face of framing members to which gypsum board is attached.

• Space /area in which gypsum board is to be installed shall be dry, and remain dry.

• Space shall have good ventilation with a minimum temperature of 40 degrees F.

• Gaps around gypsum board penetrations (outlets, etc.) shall be neatly cut, smooth, and within 3/16 inch of penetration device.

• All wood framing to receive gypsum board shall be dry (19% or less) prior to installation.

• Recommended that gypsum board have a moisture content of 12% or less before taping and finishing.

• Floating angles are recommended to reduce truss uplift.

• All moisture readings are on a Delmhorst BD probe-style moisture meter (wood range).

*Fastener size, length and spacing may be different for fire rated assemblies.

Direction of board applied to steel framing

Proper layout direction of board

Gap around wall penetration items

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