**ADVANTAGES OF STEEL IN NON-LOAD BEARING WALLS**

**FAST**
Installs in ½ the time! Pre-punched for wiring.

**EASY**
Lightweight studs snap and lock into place quickly with easy clean-up — No saw dust! Easy to transport and handle.

**DURABLE**
Will not rot, support mold, or feed insects and vermin.

**QUALITY**
Consistent dimensions, manufactured precision in every piece.

**WALLS STAY STRAIGHT**
No warping, shrinking, twisting or nail pops!

**SAFETY**
100% Non-combustible.

**ECONOMICAL**
One of the most economical ways to frame your basement.

**SOUND**
Better room-to-room sound control.

**ENVIRONMENTALLY FRIENDLY**
100% recyclable.

**POLLUTION CONTROL**
Steel resists mold spores that can lead to chronic illness.

**SAFETY**
100% Non-combustible.

**ECONOMICAL**
One of the most economical ways to frame your basement.

**SOUND**
Better room-to-room sound control.

**ENVIRONMENTALLY FRIENDLY**
100% recyclable.

**POLLUTION CONTROL**
Steel resists mold spores that can lead to chronic illness.

---

**ESTIMATION GUIDE**

| Steel Stud Application | Bailey Steel Studs are "C" shaped channels installed vertically, usually 16 inches on center. Flanges securely grab screws and factory made holes. Simply installation of wiring and piping services. Use 3 5/8" or 2 1/2" studs for wall framing and 1 3/8" studs for framing around columns and bulkheads.

**Steel Stud Quantity**
Allow one (1) piece of stud for every linear foot of wall. This covers typical studs plus extra required at corners and doors. Please refer to door and window manufacturer's installation instructions for rough opening sizes.

**Steel Track Application**
Bailey Tracks are "U" shaped channel installed to ceilings and floors to hold studs in place. Tracks may also be used to make door and window headers and sills. Bailey tracks feature snug fit for studs and continuous stiffening ribs along their flanges, for added strength.

**Steel Track Quantity**
Allow (2) linear feet of track for every linear foot of wall plus 10% extra for cuts. Allow extra track for each door header, window header and window sill.

**GYPSUM DRYWALL BOARD**
Typically 4 foot x 8 foot with longer panels available. Allow one (1) panel for every 4 foot length of 8 foot high wall plus 5% to 10% extra. Please refer to suppliers' recommendations.

**DRYWALL TAPE AND JOINT COMPOUND**
Usage for 40 feet of 8 foot high wall, is approximately 100' feet (30 meters) of tape and 44 lbs. (20 kg) of compound. Please refer to suppliers' recommendations.

**TOOLS REQUIRED**
For framing include a tape measure, sheet metal snips, plumber's level, square, reversible screw gun or drill and C-clamps. Additional tools required for drywall include a utility knife, joint finishing knives, drywall hole saw, and a square.

---

**FASTENERS**

<table>
<thead>
<tr>
<th>Application</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4&quot; Drywall Screw</td>
<td>30 to 40 screws required per 4' x 8' gypsum board</td>
</tr>
<tr>
<td>Concrete Fastener OR Nail Drive Anchor</td>
<td>1 every 2 ft. + 10%</td>
</tr>
<tr>
<td>9/16&quot; Washer Head Framing Screw OR 3/16&quot; Pan Head Framing Screw</td>
<td>4 per stud or 2 per stud against exterior walls</td>
</tr>
<tr>
<td>Trim Head Screw</td>
<td>1 per ft</td>
</tr>
</tbody>
</table>

---

**FRAMING A BASEMENT?**

Bailey Steel Studs are basically the same dimensionally as wood studs. Measure your (project) make a drawing (floor plan) with dimensions showing walls, ceiling joists, window bulkheads, columns, stairwells, beams, doorways, electrical outlets and switches. Your material supplier can assist you with code requirements, material estimating and ordering.

---

**FLAT TRACK**

- No particles or toxins are required to protect steel framing from termites or vermin.
- No emissions from resins, adhesives or chemicals normally used for wood construction occur with steel.
- In 2003, the Alberta Society of Canada recognized that steel framing, made with recycled steel, is part of a healthy indoor air environment.
**INSTALLATION STEPS**

**SAFETY FIRST:** STEEL EDGES CAN BE SHARP, SO PLEASE BE CAREFUL. ALWAYS FOLLOW GOOD SAFETY PRACTICES INCLUDING WEARING WORK GLOVES AND SAFETY GLASSES. CONSULT WITH MATERIAL SUPPLIER ON CODE REQUIREMENTS.

**Preparation**

LOCATE WALL PARTITIONS according to your drawing and mark positions of track at floor and ceiling. Check alignment with a plumb bob. omit bottom tracks at door openings. Before working an existing basement walls ensure they are dry. Cover all concrete walls with tarpaper.

**Installing Track**

**INSTALL TRACK AT CEILING** by measuring and cutting to length then securing to ceiling joists with 1 1/4" screws. Where track runs parallel to and between ceiling joists, make a cross member from a track piece and install between joists every 24 inches and fasten ceiling track to them.

**INSTALL TRACK AT FLOOR** by measuring and cutting to length and secure to floor every 24 inches and 2 inches from cut ends. Please see the important details section for the how-to’s of installing inside corners, outside corners, and an intersection.

**Make Cross Member from Track**

Check plumb with level or plumb bob. Flanges facing same direction

**Building the Walls**

INSTALL STUDS by trimming the studs 1/2" shorter than the distance between the top and bottom tracks to allow for movement of the structure above. Spacing studs: 16 inches on center ensuring all flanges face the same direction. Twist studs into tracks for friction fit and using a level make sure they are straight. Connect studs to tracks using framing screws. For partition walls that need strengthening use reinforcing channel (See Picture E on front).

Please see the important details section for the how-to’s of installing inside corners, outside corners, and an intersection.

**INSTALL DRYWALL WALL PANELS** to manufacturer’s recommendations. Typically start at a corner or intersection. Cut panels 3/8" less than the measurement from the floor to the underside of the joists (or existing ceiling). Position panels either vertically or horizontally, whichever gives fewer joints. Locate joints over studs. Avoid joints on both sides of the same stud. Avoid joints directly above or below openings for doors and windows.

At floor, support the panel at its center on a 3/4" shim. Adjacent panels in the direction shown and keep panels plumb. Secure panels to studs with drywall screws. Drive screws until panel is tight against framing and screw is just below board surface without breaking the face paper.

**Levelling Ceilings**

INSTALL BAILEY D-100/T SURFACING CHANNEL where desired. Ideal for finishing out and around exposed services. Install perpendicular to joists in rooms spaced 16" or 24" on centre and within 6" of perimeter. For the next and subsequent panels, apply in the following direction:

**INSTALL PANEL IN THIS DIRECTION**

**Quiet living at no extra cost!**

INSTALL BAILEY LC PLUS RESILIENT CHANNEL to improve the reduction of room to room sound transmission obtaining a STC 51 or greater. Install LC Plus perpendicular to framing in rows spaced 16" or 24" on centre and within 6" of perimeters. Install to one side of wall framing and to underside of ceiling joists. Seal openings to prevent sound leaks. Ensure that screws used to attach gypsum panels to resilient channels do not touch the framing.

**Installing Metal Trims**

**Metal Trim Installation**

**D-100 1 1/4" DRYWALL CORNER BEAD** 90° & 135° protects the outside corners. Allow an 8" piece per corner. Press corner bead firmly onto the board surface and secure with drywall screws through the small holes along the edge of the bead. Fasten on alternate sides every 6". Ensure fastener head is driven in below the nose of the corner bead.

**D-200 DRYWALL TRIM** protects the edge of drywall panels when butting up to concrete or other material and at door and window openings when moulding is not being used. Available for both 1 1/2" and 5/8" drywall. Attach with drywall screws and finish with joint compound.

**D-400 METAL TRIM** provides edge protection at door and window openings and where drywall butts against concrete or other surfaces. Available for both 1 1/2" and 5/8" drywall. Finish by painting.

**D-700 ANGLE FRAMING TRIM** is an optional component used in framing around ductwork and columns.

**Installing Paper Trims**

**PLATINUM DRYWALL BEADS AND TRIMS** an alternative to metal trims. Installation is comparable to that of metal trims except no mechanical fasteners are required. PLATINUM paper-based trims are quickly installed by embedding into standard drywall, joint compound.