**Framing a Basement?**

Bailey Steel Studs are basically the same dimensionally as wood studs.

**Steel Studs**

- 1 1/2" Channel 12'
- 1 1/2" Furring Channel 12'
- 2 1/2" x 10' - 90˚
- 2 1/2" x 10' - 130˚

**Wood Studs**

- 2 x 4
- 2 x 6
- 2 x 8

**Application**

**Quantity**

- Bailey Studs are "C" shaped channels installed vertically, usually to inches or centimeters. Flanges securely grab screws and factory made holes simplify installation of wiring and piping services. Use 5/8" or 21/2" studs for wall framing and 1 1/2" studs for framing around columns and bulkheads.

- Bailey Tracks feature snug fit for studs and headers and sills. Bailey tracks simplify installation of wiring vertically, usually 16 inches on centers.

- Gypsum Drywall Board is typically 4 foot x 8 foot with longer panels available. Allow (2) lineal feet of track for every linear foot of wall plus 10% extra for cuts. Allow extra track every linear foot of wall. This includes the installation instruction for window manufacturer's.

- Concrete Fastener or Nail Drive Anchor

- 9/16" Water Head Framing Screw or 7/8" Pan Head Framing Screw

- Trim Head Screw

**Fasteners**

**Application**

**Quantity**

- 1 1/4" Drywall Screw

- 1/2" OR 5/8" X 10'

- 1/2" OR 5/8" X 10'

- 1/2" OR 5/8" X 10'

- 1/2" OR 5/8" X 10'

**Estimation Guide**

Measure your project and 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.

**Advantages of Steel in Non-Load Bearing Walls**

- **Fast** - Installs in 1/2 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.
- **Quality** - Consistent manufactured quality 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.

**Tools Required**

For framing include a tape measure, sheet metal snips, plumber’s bob, level, square, reversible screw gun or drill and Cordless. Additional tools required for drywall include a utility knife, joint finishing tools, drywall clips, and as a square.

**Steel Track**

- 1 1/4" Furring Channel 12'
- 2 1/2" x 10' - 90˚ OR 130˚
- 1 1/2" Channel 12'

**Concrete Fastener or Nail Drive Anchor**

- 1 every 2 ft. + 10%
INSTALLATION STEPS:

SAFETY FIRST: Steel edges can be sharp, so please be careful. Always follow good safety practices including wearing 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. Drill bottom tracks at door openings. Before working on existing baseboard walls ensure they are dry. Cover all concrete walls with tappaper.

INSTALLING TRACK:

INSTALL TRACK AT CEILING by measuring and cutting to length then securing to ceiling joists with 1 1/4" drywall screws. Where track runs parallel to and between ceiling joists, make a cross member from header with center stud and secure and sill members. Reinforce the corners, outside corners and an intersection.

Make sure there is a 1/4" space between the tracks and concrete wall and the bottom and top tracks are aligned.

BUILDING THE WALLS:

INSTALL THE 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 centre 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 A)

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

FRAMING DOOR & WINDOW OPENINGS:

On either side of the doorway edge, place two studs face to face. (See important details for two versions) Cut track to the width of the opening and allow 4 1/4" extra to attach as header to the stud. Cut and bend pieces of track as shown to make header and all members. Reinforce the header with center stud and secure to studs with screws.

INSTALL DRYWALL WALL PANELS:

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 caulk). 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 the same stud. Avoid joints over studs or intersection. Cut panels 3/8" less than the measurement from the floor to the underside of the joists (or existing caulk). 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 the same stud.

INSTALL CTA APPROVED grommets, electrical boxes and stand-offs. Plastic grommets (A) are installed into pre-drilled holes in studs to allow for nonmetallic shielded wiring to run through to electrical outlets.

INSTALL BAILEY D-1001 FURRING CHANNELS where desired, used for framing cut and around exposed services. Install perpendicular to studs in rows spaced 16" or 24" on centre and within 6" of perimeters. Seal openings to prevent sound leaks. Ensure that screws used to attach gusset panels to resilient channels do not touch the framing.

INSTALLING METAL TRIMS:

INSTALLING METAL TRIMS is an optional component used in framing around doorways and columns.

BETTER SOUND CONTROL:

CREATE A MINI-FRAMED WALL to box in ductwork and columns. Attach 1" x 2" D120 angle against wall section under ductwork for underside drywall to be fastened to. Fasten as required.

ELECTRICAL DETAILS:

INSTALL D-1001 DRYWALL CORNERS bead 90 & 135 prevents the outside corner. Allow one 1/4" piece per corner. Press corner bead tightly 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.

IMPORTANT DETAILS

INSTALL PANELS IN THIS DIRECTION →

INTEGRATION

INSTALL track on the floor and ceiling below 1/2" or 5/8" gap for drywall to run through. Place the intersecting stud centred with the adjoining stud and secure with a drywall screw (as shown).

INSIDE CORNER

INSTALL tracks on the floors and ceilings perpendicular to each other. Three studs are required to complete an inside corner.

OUTSIDE CORNER

INSTALL double steel studs at the door frame. Secure each stud using drywall screws.

DOOR FRAME A

INSTALL double steel studs at the door frame. Secure each stud using drywall screws.

DOOR FRAME B

INSTALL frame using one wood and one steel stud as shown.

TRIM

Faster trim to base of wall with bedding compound. Connect horizontal can also be applied to the back of trim prior to fastening.

DISTRIBUTED BY:

BULKHEADS:

D-700 ANGLE FRAMING TRIM is an option component used in framing around doorways and columns.

D-100 DRYWALL L TRIM protects the edge of drywall panels when butting up to concrete or other materials and at door and window openings when moulding is not being used. Available for both 1/2" and 5/8" drywall. Attach with drywall screws and finish with joint compound.

D-400 METAL J TRIM provides edge protection at door and window openings and where drywall butt against concrete or other surface. Finish by painting.

CONSTRUCTION DETAILS can be applied to the back of trim prior to fastening.

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

D-100 1 1/4" DRYWALL CORNERS bead 90 & 135 protects the outside corner. Allow one 1/4" piece per corner. Press corner bead tightly 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-1001 1 1/4" DRYWALL CORNERBEAD 16" O.C. reinforce the corners, outside corners and an intersection.

INSTALL BAILEY D-1001 FURRING CHANNELS where desired, used for framing cut and around exposed services. Install perpendicular to studs in rows spaced 16" or 24" on centre and within 6" of perimeters. Seal openings to prevent sound leaks. Ensure that screws used to attach gusset panels to resilient channels do not touch the framing.

INTERSECTION

INSTALL track on the floor and ceiling below 1/2" or 5/8" gap for drywall to run through. Place the intersecting stud centred with the adjoining stud and secure with a drywall screw (as shown).

INSIDE CORNER

INSTALL tracks on the floors and ceilings perpendicular to each other. Three studs are required to complete an inside corner.

OUTSIDE CORNER

INSTALL double steel studs at the door frame. Secure each stud using drywall screws.

DOOR FRAME A

INSTALL double steel studs at the door frame. Secure each stud using drywall screws.

DOOR FRAME B

INSTALL frame using one wood and one steel stud as shown.

TRIM

Faster trim to base of wall with bedding compound. Connect horizontal can also be applied to the back of trim prior to fastening.

5417-0125-2003

截图 1

截图 2

截图 3

截图 4

截图 5

截图 6

截图 7

截图 8

截图 9

截图 10

截图 11

截图 12

截图 13

截图 14

截图 15

截图 16

截图 17

截图 18

截图 19

截图 20

截图 21