Disclaimer:
The Steeler Technical Design Catalog is a collection of typical designs for steel framing and connections to help guide with your design process. The Catalog should only be used as a guide, as these are typical designs and have not been tested in all situations or scenarios. You should consult with your architecture and engineering firms during the design process before applying any of the typical designs or ideas. Local building codes may require certain designs and may have special considerations that you may not be familiar with.
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SOLID STEEL PLATE, C-SHAPE OR TRACK

SCREWS AS REQUIRED

JOIST
STUD WEB HOLE PATCH DETAIL G7

STUD

SCREWS AS REQUIRED

SOLID STEEL PLATE, C-SHAPE, OR TRACK
IN-LINE FRAMING DETAIL C8
WEB STIFFENER DETAIL G9

SCREWS AS REQUIRED
C-SHAPE OR TRACK WITH SCREWS THROUGH WEB AS REQUIRED
WEB STIFFENER
WITH SCREWS
AS REQUIRED

JOIST

WEB STIFFENER DETAIL_G11
C-SHAPE INSIDE TRACK

SCREWS THROUGH WEB OR FLANGES @ EACH SIDE OF SPLICE

SPlice LENGTH AS REQUIRED

TRACK SPLICE DETAIL G12

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SHEATHING THICKNESS

EXPOSED THREADS (3 MIN. REQUIRED)

FRAMING MEMBER

HEX HEAD

LOW PROFILE HEAD

TYPICALLY SCREW FASTENED THRU THINNER STEEL TO THICKER STEEL AS SHOWN.

EXPOSED THREADS (3 MIN. REQUIRED)

SCREW ATTACHMENT DETAIL G13
FLOORS

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FLOOR FRAMING DETAIL F1
WEB STIFFENER
(AS REQUIRED)

TRACK

SILL SEALER
AS REQUIRED

SHEATHING

JOIST

FOUNDATION

ANCHOR BOLT OR OTHER
CONNECTION AS REQUIRED

CLIP ANGLE FASTENED TO TRACK,
SIZE, THICKNESS, SPACING & NO.
OF FASTENERS AS REQUIRED

FLOOR TO FOUNDATION CONNECTION DETAIL F2
FLOOR TO WOOD SILL CONNECTION DETAIL F3

- SHEATHING
- WEB STIFFENER AS REQUIRED
- TRACK
- SCREWS AS REQUIRED
- COMMON NAILS AS REQUIRED
- STEEL PLATE (SIZE & SPACING AS REQUIRED)
- ANCHOR BOLT OR OTHER CONNECTION AS REQUIRED
- WOOD SILL AS REQUIRED
- FOUNDATION
- SILL SEALER AS REQUIRED
WEB STIFFENER AS REQUIRED

SCREWS THROUGH CLIP ANGLE OR BENT STIFFENER AS REQUIRED

SHEATHING

JOIST

TRACK

SCREWS THROUGH FLANGES AS REQUIRED

LOAD BEARING STUD

FASTEN RIM TRACK TO WALL TRACK WITH SCREWS AS REQUIRED

FLOOR TO LOAD BEARING WALL CONNECTION DETAIL F4
WEB STIFFENER AS REQUIRED
(THE SIDE OR FIT BETWEEN JOIST FLANGES)

CLIP ANGLE

STEEL BEAM
OR BUILT-UP
COLD-FORMED MEMBER

FASTENER
AS REQUIRED

JOIST

FLOOR BEARING ON I-BEAM CONNECTION DETAIL F5
LAPPED JOISTS DETAIL F6
JOIST

WEB STIFFENER AS REQUIRED
(THIS SIDE OR FIT BETWEEN JOIST FLANGES)

SCREWS THROUGH JOIST FLANGE, CLIP ANGLE OR BENT STIFFENER

TOP TRACK

SCREWS THROUGH FLANGES AS REQUIRED

LOAD BEARING STUD

CONTINUOUS JOIST DETAIL F7
WELD SIZE & LENGTH
OR FASTENERS
AS REQUIRED

TRACK SECTION
ATTACHED TO JOIST
THROUGH TOP &
BOTTOM FLANGES

STRUCTURAL I-BEAM

JOIST

SCREWS AS
REQURED

JOIST HANGER AS REQUIRED

WOOD BLOCKING SECURED
TO I-BEAM

FLOOR TO I-BEAM SIDE CONNECTION DETAIL F8
JOIST SUPPORTED BY SHALLOW I-BEAM DETAIL F9

JOIST

FASTENERS
AS REQUIRED

JOIST HANGER:
SIZE AS REQUIRED
BY DESIGN

HORIZONTALLY STABILIZE
HANGER AS REQUIRED

STEEL BEAM
OR BUILT-UP
COLD-FORMED
MEMBER
JOISTS SUPPORTED BY DEEP I-BEAM DETAIL 10

STEEL BEAM OR BUILT-UP COLD-FORMED MEMBER

JOIST HANGER: SIZE AS REQUIRED BY DESIGN

HORIZONTALLY STABILIZE HANGER AS REQUIRED

FASTENERS AS REQ'D.
FLOOR JOISTS AT INTERIOR BEARING WALL DETAIL 11

JOIST TRACKS

SHEATHING

SCREWS AS REQUIRED

WEB STIFFENER AS REQUIRED
(This side or fit between joist flanges)

JOIST

TRACK

Screw as req'd.
Adjacent to stud

WALL STUD

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JOIST SECTION INSERTED IN RIM TRACK OVER OPENING BETWEEN FLOOR JOISTS

WEB STIFFENER AS REQUIRED

RIM TRACK

JOIST

FOUNDAION

SILL SEALER AS REQUIRED

JOISTS BEARING ON FOUNDATION AT OPENING DETAIL F12
FLOOR TO CMU WALL SIDE CONNECTION DETAIL F13
WEB STIFFENER AT LOAD BEARING WALL DETAIL F14
JOIST

SCREWS AS REQUIRED

STUD

STUD

SCREWS AS REQUIRED

ANCHOR(S)
AS REQUIRED

ALTERNATE PONY WALL DETAIL F15
CANTILEVERED JOIST TO FOUNDATION CONNECTION DETAIL F16
CANTILEVERED JOIST TO WOOD SILL CONNECTION DETAIL F17
CANTILEVERED JOIST TO BEARING WALL CONNECTION DETAIL F1B
CANTILEVERED JOIST TO WOOD TOP PLATE CONNECTION DETAIL F19
DOUBLE CANTILEVERED JOIST DETAIL F20
BEAM SUPPORT WITH COLUMN DETAIL F22

RIM JOIST

DRILL SCREWS AS REQUIRED

CLIP FLANGE OF TRACK

I-BEAM

TRACK

WALL STUD EA. SIDE OF BEAM

PIPE COLUMN
CLIP FLANGE OF TRACK @ WOOD BEAM

PROVIDE TRACK ON TOP OF POST, CLIP FLANGES OF TRACK AND FASTEN TO STUDS

WOOD BEAM

BACK TO BACK POST

STUD @ EACH SIDE OF BEAM

BEAM SUPPORT WITH COLUMN DETAIL F23
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FLOOR HEADER AND TRIMMER DETAIL F25

SCREWS AS REQUIRED TOP & BOTTOM (TYP.)

HEADER JOIST C-SHAPE INSIDE A TRACK

SCREWS THROUGH EACH LEG OF CLIP ANGLE (ONE SIDE OF CONNECTION) LENGTH AS REQUIRED

CLIP ANGLE WITH SCREWS THROUGH EACH LEG, BOTH SIDES OF CONNECTION (AS REQUIRED)

JOIST

TRIMMER JOIST C-SHAPE INSIDE A TRACK (TYP.)
FLOOR BLOCKING DETAIL F26

SUBFLOOR SHEATHING

SOLID BLOCKING AS REQUIRED

JOIST

CLIP ANGLE WITH SCREWS THROUGH EACH LEG. (ANGLE DEPTH AS REQUIRED)

SCREW(S) THROUGH STRAP TO JOIST AS REQUIRED

CONTINUOUS STEEL STRAP TO BOTTOM OF JOIST
FLOOR BLOCKING DETAIL F27
JOIST

TRACK OR C-SHAPE
DEPTH AS REQUIRED

FLAT STRAP

SCREWS THROUGH
EACH LEG OF CLIP
ANGLE, BOTH ENDS
LENGTH AS REQUIRED

FLOOR BLOCKING DETAIL F28
TRACK OR C-SHAPE (SIZE AS REQUIRED)

FLAT STRAP FASTENED TO BLOCKING AND JOIST AS REQUIRED

JOIST

FASTEN BLOCKING TO JOIST WITH SCREWS AS REQUIRED

FLOOR BLOCKING DETAIL F29
SCREW(S) THROUGH BRACE @ EACH FLANGE (AS REQUIRED)

JOIST

FLAT STRAP

BRIDGING DETAIL F30
### LOAD-BEARING WALLS

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<td>W29</td>
<td>Corner Framing Detail</td>
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</table>
SCHEMATIC OF TYPICAL WALL FRAMING DETAIL W1
WALL FRAMING ELEVATION DETAIL W2
SILL SEALER
AS REQUIRED

STUD

TRACK

SCREW(S) THROUGH
FLANGES AS REQUIRED

ANCHOR BOLT OR OTHER
CONNECTION, AS REQUIRED
ADJACENT TO STUD

FOUNDATION OR SLAB ON GRADE

WHERE LEDGER IS PROVIDED
FOR THE SUPPORT OF A
VENEER, THE LEDGE SHALL
BE LOCATED AT LEAST ONE
COURSE OR 1-1/2" BELOW
THE SLAB ELEVATION

WALL TO FOUNDATION DETAIL W3
STUD

AS REQUIRED

TRACK

SCREW(S) THROUGH FLANGES AS REQUIRED

SCREWS THROUGH FLANGES, AS REQUIRED

STUD BLOCKING INSIDE WALL TRACK AS REQUIRED

ANCHOR BOLT OR OTHER CONNECTION AS REQUIRED

FOUNDATION OR SLAB ON GRADE

SILL SEALER AS REQUIRED

WALL TO FOUNDATION DETAIL W4
FASTEN CLIP ANGLE TO STUD W/SCREWS AS REQUIRED

THRUST WASHER

FASTEN CLIP ANGLE TO FOUNDATION WITH THREADED ROD, HILTI OR EQUAL (SPACING AS REQUIRED)

SILL SEALER AS REQUIRED

WHERE LEDGER IS PROVIDED FOR THE SUPPORT OF A VENEER, THE LEDGE SHALL BE LOCATED AT LEAST ONE COURSE OR 1-1/2" BELOW THE SLAB ELEVATION

ANCHOR BOLT OR OTHER CONNECTION AS REQUIRED (ADJACENT TO STUD)

Screw(s) THROUGH FLANGES AS REQUIRED

FOUNDATION OR SLAB ON GRADE

WALL TO FOUNDATION DETAIL W5
FASTEN TRACK SEGMENT TO STUD WITH SCREWS AS REQUIRED

STRUCTURAL ANGLE WELDED TO VERTICAL TRACK SEGMENT AS REQUIRED

ANCHOR BOLT WITH WASHER OR OTHER CONNECTION AS REQUIRED (ADJACENT TO STUD)

WALL TO FOUNDATION DETAIL W6
STUDDING AS REQUIRED

STUD

METAL PLATE AS REQUIRED

COMMON NAILS AS REQUIRED

SCREW(S) THROUGH FLANGES AS REQUIRED

SCREWS AS REQUIRED

ANCHOR BOLT THROUGH WOOD SILL OR OTHER CONNECTION AS REQUIRED

WOOD SILL

FOUNDATION OR SLAB ON GRADE

WALL TO WOOD SILL CONNECTION DETAIL W7
STUD(S) AS REQUIRED

SCREWS AS REQUIRED

CONNECTOR AS REQUIRED

HOLD-DOWN CONNECTION DETAIL W8
STUDS AS REQUIRED

C-SHAPE NESTED INSIDE TRACK

SCREWS AS REQUIRED

CONNECTOR AS REQUIRED

HOLD-DOWN CONNECTION DETAIL W9
SCREWS AS REQUIRED (BOTH FLANGES)

C-SHAPES

SCREWS AS REQUIRED (BOTH FLANGES)

TRACK

TRACK OR C-SHAPE ATTACHED WITH SCREWS (AS REQUIRED)

FASTEN TRACK TO STUD(S) THROUGH FLANGES

KING STUD(S) (AS REQUIRED)

FASTEN TRACK TO STUD THROUGH FLANGES OR BENT WEB

JACK STUD(S) AS REQUIRED

FASTEN TRACK TO CRIPPLE STUD WITH SCREW(S) @ TOP & BOTTOM (BOTH SIDES)

BOX BEAM HEADER DETAIL W10

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BOX BEAM HEADER DETAIL W11
BACK-TO-BACK HEADER W/JACK STUD DETAIL W12
BACK-TO-BACK HEADER DETAIL W13

- Screws through top and bottom flanges as required
- Back-to-back C-shapes
- Screws as required
- Cripple stud
- Screws(s) through each flange of king stud(s) as required
- King & trimmer stud(s) as required
- Clip angle fastened to header with screws as required minimum length as required

Project: [Project Details]
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SECTION A

L-HEADER DETAIL W14
SINGLE L-HEADER DETAIL W15

- TOP OF WALL TRACK
- SCREW AS REQUIRED @ EACH END
- SCREWS AS REQUIRED
- L-HEADER
- SCREW(S) @ EACH STUD AS REQUIRED
- KING STUD(S) AS REQUIRED
- OPENING WIDTH
- HEAD TRACK @ OPENING
- CRIPPLE STUD(S) AT LOAD POINTS

PROJECT: [Blank]
ADDRESS: [Blank]
DATE: [Blank]
SHEET: [Blank]
DOUBLE L-HEADER DETAIL W16

TOP OF WALL TRACK

SCREW AS REQUIRED @ EACH END

SCREWS AS REQUIRED

L-HEADER

O.C. STUD

SCREWS AS REQUIRED

KING STUD(S) AS REQUIRED

OPENING WIDTH

HEAD TRACK @ OPENING

CRIPPLE STUD(S) AT LOAD POINTS

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COLD-ROLLED CHANNEL HORIZONTAL BRIDGING TO BE SPACED AS REQ'D BY DESIGN

CLIP ANGLE FASTENED TO STUD AND CHANNEL AS REQUIRED

STUD

STUD BRACING W/COLD-ROLLED CHANNEL DETAIL W17
WALL FRAMING

SHEATHING MATERIAL
(SUCH AS GYPSUM BOARD, OSB,
OR PLYWOOD)

STUD BRACING W/SHEATHING DETAIL W18
STUD/TRACK BLOCKING
@ EACH END OF STRAP
& INTERMITTENTLY AS REQUIRED

WALL SHEATHING

WALL FRAMING

BEND SECTION OR CLIP
FLANGE TO FORM VERTICAL

SCREWS AS REQUIRED
@ STRAP TO BLOCKING

SCREW(S) AS REQUIRED
@ EACH STUD

STUD BRACING W/STRAPPING AND SHEATHING DETAIL W19
STRUCTURAL SHEATHING FASTENING TO WALL STUDS DETAIL W21
HORIZONTAL DIAPHRAGM (FLOOR)

SHEAR WALLS

SHEAR WALL SEGMENTS.

SHEAR WALL AND DIAPHRAGM DETAIL W22
SHEATHED WALL W/OPENINGS DETAIL W23
SINGLE STORY X-BRACING DETAIL W24

NOTE: PRETENSION STRAPS
TWO STORY X-BRACING DETAIL W25

NOTE: PRETENSION STRAPS

LOAD BEARING STUD

CHORD STUDS @ UPPER END OF ALL X-BRACE MULTIPLE CHORDS:
(IF REQUIRED)
ATTACH MEMBERS BACK-TO-BACK WITH SCREWS AS REQUIRED

WEB STIFFENER AS REQUIRED AT STUD LOCATION

DIAGONAL STRAP

HOLD DOWN

STRAP-TO-CHORD STUD & TRACK CONNECTION

ANCHOR AS REQUIRED

CHORD STUDS @ UPPER END OF ALL X-BRACE MULTIPLE CHORDS:
(IF REQUIRED)
ATTACH MEMBERS BACK-TO-BACK WITH SCREWS AS REQUIRED

BOTTOM TRACK

INTERIOR SIDE

EXTERIOR SIDE

INTERIOR SIDE

EXTERIOR SIDE

PER DESIGN
DIAGONAL STRAP FASTENED TO GUSSET PLATE & EACH STUD W/SCREWS AS REQUIRED

STUD

MULTIPLE STUDS AT ENDS (AS REQUIRED)

GUSSET PLATE WITH SCREWS AS REQUIRED

HOLDOWN BRACKET (MAY BE PLACED ON OTHER SIDE OF STUDS)

FASTEN GUSSET PLATE TO TRACK W/SCREWS AS REQUIRED

NOTE: PRETENSION STRAPS

BOTTOM TRACK

X-BRACING W/GUSSET DETAIL W28
CORNER FRAMING DETAIL W29
NON-LOAD BEARING WALLS

Detail NL1 Non-Load Bearing Wall Framing

Detail NL2 Sill and Head Track Connection Detail

Detail NL3 Corner Framing Detail

Detail NL4 Slammer Stud Detail

Detail NL5 Window Opening Framing Detail

Detail NL6 Door Opening Framing Detail

Detail NL7 Non-Load Bearing Opening

Detail NL8 Non-Load Bearing Wall Parallel to Joist
SILL AND HEAD TRACK CONNECTION DETAIL NL2
SLAMMER STRUD DETAIL NL3
DOOR OPENING FRAMING DETAIL NL5
TOP TRACK

CRIPPLE STUD

HEAD & SILL TRACKS:
BEND TO ALLOW EXTENSION
OF FLANGES FOR CONNECTION

WALL STUD

NON-LOAD BEARING OPENING DETAIL NL7
SHEATHING

SCREWS AS REQUIRED

JOISTS

COPE FLANGES — FOR CROSS MEMBER AS REQUIRED TO BRACE WALL — SCREW AS REQUIRED

SECTION OF STUD OR TRACK

NON-LOAD BEARING WALL

NON-LOAD BEARING WALL PARALLEL TO JOIST DETAIL NL8
ROOFS (RAFTERS/JOISTS)

Detail R1  Roof Framing
Detail R2  Joist and Rafter Detail
Detail R3  Roof Framing Isometric View
Detail R4  Heel Joint Connection Detail
Detail R5  Ridge Member Connection Detail
Detail R6  Ridge Member with Coped Rafters
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Detail R11 Roof Framing with Wood Tail Extension
Detail R12 Wood Truss Bearing on Steel Wall
Detail R13 Collector Block Detail
Detail R14 Non-aligned Roof-Wall framing
Detail R15 Hip Beam
ROOF FRAMING DETAIL R1

- Ceiling joist top flange bracing with C-shape, track section or flat strap
- Rafter bottom flange bracing as required
- Rafter support brace as required
- Rafter (Typ.)
- Rafter bottom flange bracing as required
- Collector block (R13)
- Ridge member (R5,R6)
- Heel joint (R4)
- Ceiling finish
- Distance to center of screw pattern per design
- Cantilever
- Ceiling joist
- Load bearing wall as required
- Load bearing wall

When installed, rafter support brace should be connected to each ceiling joist and rafter with screws (as required) at each end (cope flanges of brace at ceiling joist connection or use gusset plate). (R10)
HEEL JOINT CONNECTION DETAIL R4

FASTEN RAFTER TO CEILING JOIST WITH SCREWS AS REQUIRED OR THROUGH CLIP ANGLE, PLATE OR OTHER CONNECTOR (WHEN REQUIRED)

FASTEN ROOF TO WALL WITH SCREWS THROUGH CEILING JOIST FLANGE, CLIP ANGLE, STEEL PLATE OR OTHER CONNECTOR, AS REQUIRED
CLIP ANGLE

SCREWS IN EACH LEG OF CLIP ANGLE AS REQUIRED

RAINTER (TYP.)

RIDGE MEMBER: C-SHAPE INSIDE A TRACK SECTION FASTENED WITH SCREWS THROUGH TOP & BOTTOM FLANGES, AS REQUIRED

RIDGE MEMBER CONNECTION DETAIL R5
RIDGE MEMBER: C-SHAPE INSIDE
A TRACK SECTION FASTENED WITH
SCREWS THROUGH TOP & BOTTOM
FLANGES, AS REQUIRED

COPE RAFTER AND
SCREW AS REQUIRED

RIDGE MEMBER W/COPED RAFTER DETAIL R6
CONTINUOUS ANGLES
FASTEN W/ SCREW AT
EACH MEMBER (TYP.)

CONTINUOUS BRIDGING
AS REQUIRED.

RAFTER OR
TOP CHORD

JOIST OR
BOTTOM CHORD

CLIP ANGLE
BETWEEN MEMBERS

SOFFIT FRAMING
AS REQUIRED

WALL STUD

SHEATHING

ROOF EAVE AND SOFFIT DETAIL R7
2x WOOD JOIST EXTENSION
NESTED INSIDE ROOF RAFTER

2x BLOCKING BETWEEN ROOF MEMBERS

PER DESIGN

ROOF FRAMING W/WOOD TAIL EXTENSION DETAIL R11
WOOD TRUSS BEARING ON STEEL WALL DETAIL R12

WOOD TRUSS (BY OTHERS)

2x TOP PLATE AS REQUIRED SCREWS AS REQUIRED

UPLIFT CONNECTOR AS REQUIRED
TENSIONED FLAT STRAP

ROOF TRUSS

O.C. FRAMING

LOCATION AND SPACING PER ROOF PLAN

BRAKE SHAPE THICKNESS AS REQUIRED

SCREWS AS REQUIRED

HURRICANE CLIP AS REQUIRED

ALIGN W/TRUSS LAYOUT

COLLECTOR BLOCK DETAIL R13
NON-ALIGNED ROOF-WALL FRAMING DETAIL R14

- TENSIONED FLAT STRAP
- ROOF TRUSS OR FLOOR JOIST
- SCREWS AS REQUIRED
- O.C. FRAMING
- UPLIFT CONNECTOR AS REQUIRED
- CLIP FLANGES @ EACH END
- PER DESIGN
- O.C. FRAMING
BREAK SHAPE TO EACH MEMBER

CARRIER TRUSS

1/2 TRUSS OR DOUBLE TRUSS

ROOF RAFTER

TRACK (HIP BEAM)

ATTACH 1/2 TRUSS TO CARRIER TRUSS (DOUBLE TOP CHORD)

CAP TRACK

SCREWS AS REQUIRED

1-1/2" BREAK SHAPE TIE TO HIP BEAM

FASTEN EACH LEG TO HIP BEAM WITH SCREWS AS REQUIRED

HIP WEDGE @ EACH RAFTER

HIP BEAM DETAIL R15
<table>
<thead>
<tr>
<th>Detail</th>
<th>#:M1</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detail</td>
<td>#:M2</td>
<td>Cabinet Blocking Detail</td>
</tr>
<tr>
<td>Detail</td>
<td>#:M3</td>
<td>Wiring and Piping Installation Detail</td>
</tr>
<tr>
<td>Detail</td>
<td>#:M4</td>
<td>Stair Framing</td>
</tr>
<tr>
<td>Detail</td>
<td>#:M5</td>
<td>Stair Landing</td>
</tr>
<tr>
<td>Detail</td>
<td>#:M6</td>
<td>Window Sill</td>
</tr>
</tbody>
</table>
WOOD BLOCKING

NOTCHED TRACK
OR C-SECTION

FLAT STRAP

CABINET BLOCKING DETAIL M1
WIRING AND PIPING INSTALLATION DETAIL M2
GLUE & SCREW WITH BUGLE HEAD SCREWS AS REQUIRED

APA RATED SHEATHING
(TREDS AND RISERS)

BACK-TO-BACK STUDS

STAIR FRAMING DETAIL M3
JOIST PER PLAN AT TOP FLOOR

CLIP ANGLE FASTENED TO JOIST AND STRINGER AS REQUIRED

JOIST FASTENED TO STRINGER (CLIP FLANGES AS REQUIRED)

STRINGER AT EACH SIDE OF STAIR AND IN CENTER AS REQUIRED

CONTINUOUS CLIP ANGLE ACROSS STRINGER(S), FASTEN AS REQUIRED TO EACH STRINGER

CLIP ANGLE FASTENED RISER AS REQUIRED

CLIP ANGLE FASTENED STRINGER AND BASE AS REQUIRED

STAIR FRAMING DETAIL M4
STAIR LANDING DETAIL M5

TRACK

JOIST FASTENED TO TRACK AS REQUIRED

JOIST
STUD

DEEP LEG TRACK FASTENED TO STUD WITH SCREWS AS REQUIRED

C-SHAPE

SCREW(S) THROUGH FLANGE AS REQUIRED

WINDOW SILL DETAIL M6
Eliminate finger cuts, lost time due to injuries, and workman compension claims with **STEELER® Hemmed Angle**. Non-hemmed 25 gauge steel has extremely sharp edges that can cut your hands and fingers very easily. Hemmed angle has edges that are bent over the flanges to make a smooth edge that is less sharp and easier to handle. The hemming also stiffens the angle significantly. Hemmed angle is easier and safer to work with, thus increasing productivity.

Hemmed angle is available in 25 gauge and lengths from 3" to 20' lengths. Hemmed angle is available with flanges of 1", 1 -1/4", 1 -1/2", 2", and 2 -1/2". Both flanges must be the same size. Hemmed angle is manufactured from light gauge steel meetings the requirements of ASTM A653-02a or equal.

Typical uses for hemmed angle include bridging, bracing, blocking, and other situations that would require light gauge angles.

In addition to angles, **STEELER®** offers hemming on most 25 gauge products such as Sound Resilient Channel, Drywall Channel (DWC / Furring Channel), Studs, Tracks, and C-H Shaftwall Studs.

<table>
<thead>
<tr>
<th>Steeler Part #:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0100A100-018H</td>
<td>1&quot; x 1&quot; Hemmed Angle, 25 Gauge</td>
</tr>
<tr>
<td>0125A125-018H</td>
<td>1 1/4&quot; x 1 1/4&quot; Hemmed Angle, 25 Gauge</td>
</tr>
<tr>
<td>0150A150-018H</td>
<td>1 1/2&quot; x 1 1/2&quot; Hemmed Angle, 25 Gauge</td>
</tr>
<tr>
<td>0200A200-018H</td>
<td>2&quot; x 2&quot; Hemmed Angle, 25 Gauge</td>
</tr>
<tr>
<td>0250A250-018H</td>
<td>2 1/2&quot; x 2 1/2&quot; Hemmed Angle, 25 Gauge</td>
</tr>
</tbody>
</table>
Building structures move with dead, live and snow loads, wind and seismic forces, and temperature changes. **STEELER** has designed and engineered a slide clip that isolates the non-load wall system from the structure. The **STEELER** slide clip allows the structure to deflect vertically for any designed vertical deflection and its simple design saves time and money compared to other products and installation methods.

Consult with your Engineering firm before using this product.
Custom Brake Shapes

STEELER INC. will provide brake shapes to you on an as needed basis. We are able to provide custom shapes for your special job requirements within reasonable lead times. At left are some shapes which are common in industry and dimensioning variables to help you with your ordering. Our shop is not limited to these shapes and it is just a matter of a request to receive information on shapes not shown.

Materials

a) Light gauge steel meeting the physical and galvanization requirements of A.S.T.M. A-653 or equal.

b) Shape and Dimensions as requested

c) Maximum Length = 32' - 0"

d) Gauges available: 25, 20, 18, 16, 14, 12, 10 and up to 1/4 of an inch thick.

e) Packaging = Varies on Order

f) Up to 6 brakes/bends available (BS1 = 1 bend; BS6 = 6 bends)

Ordering information

Please be sure to provide quantity, length, thickness (gauge) and appropriate dimensional information. A drawing of the brake shape is required for all orders. Be sure to identify inside or outside measurements and to let us know of acceptable variances on angles or dimensions. Consult with your engineering firm before using this product.
**DFT (Deflection Track)**

**Materials**

a) Light gauge steel meeting the physical and galvanization requirements of A.S.T.M. A-653 or equal.

b) Shape and Dimensions as shown at left.

c) Length = 10’ - 0”

d) Widths available:
   - 3-1/2”, 3-5/8”, 4”, 6”, 8”

e) Gauges available:
   - 25, 20, 18, & 16.

d) Packaging = Varies on Order

**Installation**

1) Walls assembled with deflection track are assembled similar to standard load bearing walls except that stud lengths are 1-3/8 inch shorter to allow for the deflection track’s equivalent height.

   This 1-1/4 inch track height is able to expand and contract to allow for the ceiling deflection.

   Standard lower track is used in these walls. Sheathing is done as normal except that it must be held back from the top of the track.

2) Walls should be framed with a 1/2” Wafer head driller screw (STEEлер P/N 34 Super Wafer Head Driller).

3) Sheathing - Use a 1-1/8” Super Steeler drywall screw (STEEлер P/N 268) to secure 1/2” drywall and a 1-1/4” Super Steeler drywall screw (STEEлер P/N 368) to secure 5/8” drywall to either 25 or 20 gauge studs. Use a 1 1/4” drywall driller screw to attach to the 18 gauge studs (STEEлер P/N 14).

   Consult with your engineering firm before using this product.

**STEELER INC.** is introducing an economical alternative for ceiling connections of non-load bearing walls. Our new deflection track may allow ceilings to deflect under loading without affecting the wall beneath. Performance is based upon gauge and must be determined by the Job Engineer. In many cases a slip track application may be changed to deflection track saving both material and labor at installation.
**Materials**

a) Light gauge steel meeting the physical and galvanization requirements of ASTM A-653 or equal.

b) Shape and Dimensions shown at left.

c) Length - 10’-0” and 20’-0”.
   Special lengths are available.

d) Sizes - ¾”, 1½”, and 2”.

**Installation**

a) Suspended Drywall Ceiling erection- install “CRC” 48” on center as the main carriers and within 6” of walls. Secure with 8 ga. or 9 ga. STEELER hanger wire (saddle tie).

Splices- interlock flanges and overlap ends 12” and secure with 1 strand of 16 ga. or 2 strands of 18 ga. tie wire.

b) Suspended Plaster Ceiling- apply ¾” CRC across at right angles to 1½” CRC. Space 12” to 24” depending on type of lath. Saddle tie to 1½” carriers with tie wire.

c) Walls- Refer to page 51 of our ICBO Report for bridging applications.
   Consult with your engineering firm before using this product.

---

**STEELER, INC.** provides “CRC” cold-rolled channel made from 16 gauge. CRC is used for furring walls and ceilings and suspended ceilings. Also used for laterally bracing in steel stud wall systems and ornamental lathing. Available in galvanized per ASTM A-653 or equal.
12 SRC (Resilient Channel)
1-800-275-2279

**Materials**

a) Light gauge steel meeting the physical and galvanization requirements of A.S.T.M. A-653 or equal.

b) Shape and Dimensions in accordance with Gypsum Association Fire Resistance and Sound Control Design Manual, page 14, as shown at left. Available flanges of 1-1/4” and Extra Wide 1-1/2”.

c) Length = 12’ - 0”
Custom Lengths Available.

d) Packaging = Bundles of 40 (480 feet per bundle)

e) Available with hemming for 1-1/4” and hemming is required for 1-1/2”.

**Installation**

a) Walls - 12 SRC is placed parallel to the floor with attaching flange down and attached with a 1-1/4” Type W (STEELER P/N 300) or Type S (STEELER P/N 368) for wood stud applications. When attaching to steel use a 1/2” Type A (STEELER P/N 31) or 1/2” Type SDS (STEELER P/N 34). Spacing over studs 16” o.c. is 24” maximum. Spacing over studs 24” o.c. is 16” maximum.

b) Ceilings - 12 SRC is placed perpendicular to the joists and attached as stated above. Spacing under joists 16” o.c. is 24” maximum. Spacing under joists 24” o.c. is 16” maximum.

c) Sheathing - Use screws (STEELER P/N 268) to secure 1/2” drywall and (STEELER P/N 368) to secure 5/8” drywall.

**Note:** Installation methods and components should be as listed in the Gypsum Association’s Fire Resistance and Sound Control Design Manual.
Galvanized hanger wire is used for a variety of applications in the construction industry. Hanger wire is most commonly used to suspend HVAC ductwork, lighting fixtures, electrical conduit and acoustical ceilings. Hanger wire may be anchored by several different methods. (see assemblies at left)

1) Straight wire twisted on site to structure.
2) Twisted loop dropped through the pan before concrete.
3) Clip w/percussion pin to ceiling surface. (various clip & pin combinations)
4) Wedge anchor to ceiling surfaces.
5) Clip w/screw to metal structure. (various clip & screw combinations)

Straight wire.
Stock lengths are:
In 12 ga. 4, 6, 8, 10, 12, 14, 16, and 20 feet.
In 9 ga. 10, 12 feet.
In 8 ga. 10, 12 feet.

Hanger wire assemblies are manufactured from stock lengths.

Ordering:
STEELER offers the assemblies shown at left in 8, 9 and 12 gauge wire. We have available many combinations and/or separate components. Custom assemblies may be manufactured on request.
DWC (DryWall Channel)
1-800-275-2279

Materials

a) Light gauge steel meeting the physical and galvanization requirements of ASTM A-653 or equal.

b) Shape and dimensions shown at left.

c) Length = 12"-0" and 20'-0"
Special lengths available

d) Depth = ½", 7/8", and 1½"

e) Gauges available: 25, 22, 20DW (21), 20, 18, 16, and 14.

f) Refer to page 4 of our ICBO for section properties and span tables.

Installation

a) Walls- DWC may be attached vertically or horizontally depending on wall type. 16" o.c. or 24" o.c. depending on thickness of gypsum wallboard.

b) Ceiling- DWC may be attached with furring clips or tie wire to 1½" main carriers. Max allowable spacing for DWC is 24" o.c. for ½" & 5/8" wallboard.

Note: Our “DWC” meets the requirements related to the methods of installation in ASTM C754. Consult with your engineering firm before using this product.

STEELER, INC. Drywall furring channel is a roll-formed hat shaped section available in 25ga. to 14ga. galvanized steel. Designed for screw attachment of gypsum panels in ceiling and wall applications. “DWC” may be attached with furring clips or tie wire.
Pony Wall Supports
1-800-275-2279

STEELER INC. will provide Pony Wall Supports to you on an as needed basis. We are able to provide custom heights for your special job requirements within reasonable lead times. At left is our standard stock Pony Wall Support with dimensioning variables to help you with your ordering. STEELER is not limited to our stock supports and with proper lead time we are able to supply variations on this design.

Features and Benefits:
Steeler Pony Wall Supports have clear advantages over square tubing pony wall supports. Steeler Pony Wall Supports allow for easy screw access and do not need pre-drilling. Our screw #44Z-MAG can be used to attach up to 14 gauge steel studs to either side of the "C" channel. Steeler Pony Wall Supports save time and money.

Materials
a) Light gauge steel meeting the physical and galvanization requirements of A.S.T.M. A-653 or equal.
b) Maximum recommended height is 40" but can be made to custom specifications such as 120". Stock lengths are 30" and 48".
c) The upright is a 14 gauge "C" channel
d) The bottom plate is 3/8" X 2 1/2" X 16" mild steel, or 3/8" X 3 1/2"
e) The holes are 9/16" in diameter for anchors.
f) The upright is welded to the bottom plate, cleaned and painted at the welded area at the same time the bottom plate is painted.

Ordering information
Please be sure to provide quantity, heights, and any special instructions at time of order. Consult with your engineering firm before using this product.

Custom Lengths Available
Up to 120" (10 feet)
30" 48" 60"

3/8" 16"
Steeler Inc.'s Engineered C-H Stud and J-Track are an economical solution to Shaft Wall Systems. Steeler C-H shaped studs are shaped by cold-formed shaping of the steel, which increases the strength of the C-H stud. Other competing Shaft Wall Systems use knock out tabs to hold the shaft liner in place, however these knock-out tabs reduce the strength of those Shaft Wall studs and reduce the limiting wall heights of such walls. Steeler C-H are safer and easier to work with because the edges (except for one lip return) are hemmed and there are no sharp knock out tabs to worry about.

Steeler J-Track is manufactured from steel meeting the requirements of ASTM C653-02a or equal, Grade 33 (fy=33KSI).

J-Track is used for top, bottom, and end of wall track in construction of Shaft Wall Systems.

Steeler J-Track is available with webs of 2 1/2", 4", and 6". The long flange is 2 1/4" and short flange (stiffener) is available with 1" and 2" flanges.

### 6" C-H Stud Diagram

![6" C-H Stud Diagram](image)

### J - Track Diagram

![J - Track Diagram](image)

<table>
<thead>
<tr>
<th>J-Track Part #</th>
<th>Web (A):</th>
<th>Flange (B):</th>
<th>Stiffener flange (C):</th>
<th>Thickness:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0250J100</td>
<td>2 1/2&quot;</td>
<td>2 1/4&quot;</td>
<td>1&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
<tr>
<td>0250J200</td>
<td>2 1/2&quot;</td>
<td>2 1/4&quot;</td>
<td>2&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
<tr>
<td>0400J100</td>
<td>4&quot;</td>
<td>2 1/4&quot;</td>
<td>1&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
<tr>
<td>0400J200</td>
<td>4&quot;</td>
<td>2 1/4&quot;</td>
<td>2&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
<tr>
<td>0600J100</td>
<td>6&quot;</td>
<td>2 1/4&quot;</td>
<td>1&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
<tr>
<td>0600J200</td>
<td>6&quot;</td>
<td>2 1/4&quot;</td>
<td>2&quot;</td>
<td>18, 27, 30, 33 mils</td>
</tr>
</tbody>
</table>

*Part # Notes: Desired thickness of J-Track is indicated by appending mil thickness to part # listed above.
C-H Studs & J-Track for Shaft Wall Construction

1-800-275-2279

STEELER® C-H Studs can be used in the Shaft Wall construction as listed below in the following UL Design Numbers. UL Certifications are available at www.ul.com, or copies are available upon request.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U428</td>
<td>2-1/2&quot; C-H Shaped studs, 1-1/2&quot; wide</td>
<td>25 GA.</td>
<td>2 hour</td>
</tr>
<tr>
<td>U429</td>
<td>2-1/2&quot; C-H Shaped studs, 1-1/2&quot; wide</td>
<td>25 GA.</td>
<td>2 hour</td>
</tr>
<tr>
<td>U438</td>
<td>2 1/2&quot; C-H Shaped studs, 1 1/2&quot; wide</td>
<td>25 GA. *</td>
<td>2 hour</td>
</tr>
<tr>
<td>U459</td>
<td>2 1/2&quot; C-H Shaped studs, 1 1/2&quot; wide</td>
<td>20 GA.</td>
<td>2 hour</td>
</tr>
<tr>
<td>U467</td>
<td>2 1/2&quot; C-H Shaped studs, 1 1/2&quot; wide</td>
<td>25 GA. *</td>
<td>2 hour</td>
</tr>
<tr>
<td>U469</td>
<td>2 1/2&quot; C-H Shaped studs, 1 1/2&quot; wide</td>
<td>25 GA. *</td>
<td>1 hour</td>
</tr>
<tr>
<td>U492</td>
<td>4&quot; C-H Shaped studs, 1 1/2&quot; wide</td>
<td>25 GA.</td>
<td>2 hour</td>
</tr>
</tbody>
</table>

* - Minimum thickness depends on manufacturer of drywall.

1) Steeler C-H Studs conform to the manufacturers standard gauge (MSG), shape, and section property specifications listed in each UL/USG system design and Fire Resistance Rating and are therefore acceptable for use with listed wallboard gypsum products bearing the UL classification marking.
2) The 2 1/2" web X 1 1/2" flange dimension for C-H Studs is a minimum requirement and larger sizes, i.e.; 4" and 6" (studs) are permitted system stud sizes under any UL certification.
3) All wallboard sizes specified in each system design must bear a UL classification marking.
4) Note specific manufacturers standard gauge (MSG) and stud length (floor to ceiling) requirements in each system design.
5) Note "J" shaped floor and ceiling runners (J Track) require unequal leg lengths of 1 in. and 2 in. and manufacturers standard gauge (MSG) requirements may vary by system design.

References:

UL Technical Services, Conformity Assessment Services (CAS)
Phone Number: (847) 272-8800 ext. 42364; Fax (847) 509-6292.
http://www.ul.com/contact.html

David Jeter, Steeler Engineer.
Phone Number: (800) 275-2279; Fax (206) 725-1300.
10023 Martin Luther King Jr. Way South, Seattle, WA 98178
www.steeler.com e-mail: engineering@steeler.com

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Rev. 1.1 Dec. 6, 2004
The **STEELER® SLOTTED STUD™** is an innovative and economical light gauge steel framing Deflection Head-Of-Wall (HW) System which revolutionizes commercial and residential construction techniques. The **STEELER® SLOTTED STUD™** is classified by Underwriters Laboratories, Inc. for 500 successful cycles. **It is unlike any other head-of-wall assembly currently in the construction industry and can be used for both non-load bearing and wind load-bearing walls.** The **STEELER® SLOTTED STUD™** has a slot of 2-1/4" which allows for up to a 2" deflection depending on which Head-Of-Wall System is used. The Engineer of Record shall specify which Head-Of-Wall System to use.

### UL® Head of Wall Systems:

<table>
<thead>
<tr>
<th>System Number</th>
<th>Fire Rating</th>
<th>Movement Class &amp; Capabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-D-0016</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Classes II &amp; III, 25% Compression</td>
</tr>
<tr>
<td>HW-D-0020</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 25% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0021</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 18.75% Compression and Extension</td>
</tr>
<tr>
<td>HW-D-0029</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 25% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0032</td>
<td>2 Hour Fire Rating</td>
<td>Class II, 50% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0033</td>
<td>2 Hour Fire Rating</td>
<td>Class II, 50% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0034</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 25% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0037</td>
<td>2 Hour Fire Rating</td>
<td>Class II, 18.75% Compression or Extension</td>
</tr>
<tr>
<td>HW-D-0048</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 33% Compression or Extension</td>
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<tr>
<td>HW-D-0049</td>
<td>1 &amp; 2 Hour Fire Rating</td>
<td>Class II, 50% Compression or Extension</td>
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</tbody>
</table>

U.L. Classified XHL1.R21503  
U.L. Classified for Canada XHL17.R21503  
CSFM Fire Engineering Listed 8-13-04

For questions or additional information, please contact our Marketing Department.

**STEELER® INC.** Corporate Headquarters  
1-800-275-2279 Toll Free  206-725-2500 Local  
206-725-1700 Marketing Fax  
10023 Martin Luther King Jr. Way South  
Seattle, WA 98178  
e-mail: marketing@steeler.com

For technical questions, please visit our website at www.steeler.com  
or contact **David Jeter PE SE**, Manager, Steeler Engineering Department  
e-mail: engineering@steeler.com

U.S. Patent No. 6,854,237 B2
MODERN, EFFICIENT HEAD-OF-WALL SYSTEMS

A cost-effective alternative to slotted track, the Steeler Slotted Stud is everything you need in a Head-of-Wall system. The Steeler Slotted Stud is innovative and economical, as it can be used in combination with track to form both non-load bearing and wind load-bearing walls. It includes a 2 1/4” slot which allows for up to a 2” vertical deflection and is UL fire rated. Substituting Steeler Slotted Stud in place of slotted track can save your project money while still offering the proper deflection your walls require.

Easier Install: Steeler Slotted Studs are lighter than conventional studs, meaning quicker installation. The 2-1/4” slot allows is designed for easy fastening.

Better Deflection: Steeler Slotted Stud is unlike any other head-of-wall assembly in the industry. Its 2-1/4” slot allows for up to 2” of deflection.

Superior Toughness: We use a full zinc coating to greatly minimize rust formation. What’s more, the Steeler Slotted Stud is available in gauges from 21 to 12, meaning superior wind load capabilities.

Designed for fire & smoke protection: Two slots in the head of each stud means less of a need for fire proofing.

The Steeler Slotted Stud offers an effective alternative to standard slotted track. Depending on the specifications of your project, Steeler Slotted Studs can save you big money.

Steeler Slotted Studs meet or exceed ASTM A370, A1003, C754, C645, and C955. The Steeler Slotted Stud is UL rated for up to 2 hours. Members 33ES and thicker are engineered to be load bearing and thus structural.

Web Size Offerings: 1-5/8”, 2”, 2-1/2”, 3-1/2”, 3 5/8”, 4”, 5 1/2”, 6”, 8”, 10”, and 12”.

Flange Offerings: 1-1/4”, 1-7/16”, 1-5/8”, 2”, 2-1/2”, and 3”.

For more information, including Limiting Heights and Section Properties, visit www.steeler.com
STEELER® INC.
SLOTTED STUD™
Wind Load & Non-Load Bearing
Deflection Wall System

STEELER® INC.
SLOTTED STUD™
Wind Load & Non-Load Bearing
Deflection Wall System
The Engineer of Record shall specify design vertical and lateral deflection requirements.

U.S. Patent No. 6,854,237 B2
<table>
<thead>
<tr>
<th>STEELER® Part Number</th>
<th>Description</th>
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</thead>
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<td><strong>S125 (SS STUD)</strong></td>
<td>The 1-1/4&quot; (SS) Series Structural Studs have a 1 -1/4&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<td><strong>S137 (HS STUD)</strong></td>
<td>The 1-3/8&quot; (HS) Series Structural Studs have a 1-3/8&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<tr>
<td>3-5/8&quot; 0362S137</td>
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<td>8&quot; 0800S137</td>
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<tr>
<td><strong>S162 (WC STUD/JOIST)</strong></td>
<td>The 1-5/8&quot; (WC) Series Structural Studs have a 1-5/8&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<td><strong>S200 (CW STUD/JOIST)</strong></td>
<td>The 2&quot; (CW) Series Structural Studs have a 2&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<td>8&quot; 0800S200</td>
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<td>10&quot; 1000S200</td>
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<tr>
<td>12&quot; 1200S200</td>
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<tr>
<td><strong>T100 (TT TRACK)</strong></td>
<td>Standard 1&quot; (TT) Series tracks are produced as a C channel section with a 1&quot; flange with no returns. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;. Non-stock webs are 14&quot;, 16&quot;, 18&quot;, 20&quot; and 24&quot;.</td>
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<td>3-1/2&quot; 0350T100</td>
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<tr>
<td>3-5/8&quot; 0362T100</td>
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<td>5-1/2&quot; 0550T100</td>
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<td>10&quot; 1000T100</td>
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</tr>
<tr>
<td>12&quot; 1200T100</td>
<td></td>
</tr>
<tr>
<td><strong>T125, T150, T200 DEEP LEG TRACK</strong></td>
<td>Deep Leg Tracks (DLT) are produced as a C channel section with a 1 1/2&quot; flange, with no returns. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard webs are 1-5/8&quot;, 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;. Flanges over 2&quot; are brake shapes and are available for special order.</td>
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<td>3-1/2&quot; 0350T</td>
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<td>3-5/8&quot; 0362T200</td>
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<td>5-1/2&quot; 0550T</td>
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<td>6&quot; 0600T</td>
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<td>12&quot; 1200T</td>
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</table>

Notes: 1 mil = 0.001". Mil thicknesses are design thicknesses. Call for other available thicknesses. Not all available webs are listed. 8", 10", and 12" webs are only available for structural gauges in 1-1/4" (SS stud) and 1-3/8" (HS stud) sections. November 3, 2005
<table>
<thead>
<tr>
<th>STEELER Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>S250 (EWC) STUD JOIST</strong></td>
<td>The 2-1/2&quot; (EWC) Series Structural Stubs have a 2-1/2&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), and 30 mils (20DW). Standard webs are 2-1/2&quot;, 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<tr>
<td>3 - 1/2&quot; 0350S250</td>
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<td>3 - 5/8&quot; 0362S250</td>
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<td>4&quot; 0400S250</td>
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<td>8&quot; 0800S250</td>
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<tr>
<td>10&quot; 1000S250</td>
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<tr>
<td><strong>S300 (HWC) STUD JOIST</strong></td>
<td>The 3&quot; (HWC) Series Structural Stubs have a 3&quot; stiffened flange with a minimum lip bend at a 90° angle. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge). Standard webs are 3-1/2&quot;, 3 5/8&quot;, 4&quot;, 6&quot;, 8&quot;, 10&quot;, and 12&quot;.</td>
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<td>6&quot; 0600S300</td>
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<tr>
<td>10&quot; 1000S300</td>
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<tr>
<td>12&quot; 1200S300</td>
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</tr>
<tr>
<td><strong>DRYWALL CHANNEL</strong></td>
<td>DWC (Drywall Channel) is available in depths of 1/2&quot;, 7/8&quot;, and 1-1/2&quot;, and lengths of 12' and 20'. Sections typically available in thicknesses of 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard lengths are 12 and 20 feet. Hemming is available.</td>
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<tr>
<td>1/2&quot; 0125F050</td>
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<tr>
<td>7/8&quot; 0125F087</td>
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<tr>
<td>1-1/2&quot; 0125F150</td>
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<tr>
<td><strong>SRC RESILIENT CHANNEL</strong></td>
<td>SRC (Sound Resilient Channel) is available in 18 mils (25 gauge). SRC is available in standard lengths of 12 feet and can be made to order. Hemming is available on 1-1/4&quot; SRC and is required for 1-1/2&quot; SRC.</td>
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<tr>
<td>1-1/4&quot; 0125R050</td>
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<td>1-1/2&quot; 0150R050</td>
<td></td>
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<tr>
<td><strong>ANGLE</strong></td>
<td>Angles are available with flanges of 1&quot;, 1-1/2&quot;, 2&quot;, and other flanges are available for special order up to 12&quot;. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard lengths are 10'. Hemming is available for 18 mils (25 gauge) angle.</td>
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<tr>
<td>1-1/2&quot; 0150A150</td>
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<tr>
<td>2&quot; 0200A200</td>
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<tr>
<td><strong>Z Furring</strong></td>
<td>Z-Furring is available with a screw or nail flange of 1&quot;, and the available webs are 5/8&quot;, 1&quot;, 1-1/2&quot;, 2&quot;, 3&quot;, and 3-1/2&quot;. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Z-furring is available for special order in 4&quot; and 6&quot; webs.</td>
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<td>1-1/2&quot; 0150Z100</td>
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<td>2&quot; 0200Z100</td>
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<td>3&quot; 0300Z100</td>
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<tr>
<td>3-1/2&quot; 0350Z100</td>
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<tr>
<td><strong>FLAT STOCK</strong></td>
<td>Flat stock is available in many widths, from 1&quot; to 48&quot;. Sections typically available in thicknesses of 97 mils (12 gauge), 68 mils (14 gauge), 54 mils (16 gauge), 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge). Standard lengths are 10' and 100', and any length can be special ordered.</td>
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<td>18&quot; 1800FS</td>
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<tr>
<td><strong>COLD ROLLED CHANNEL</strong></td>
<td>Cold rolled channel is available in widths of 3/4&quot;, 1-1/2&quot;, and 2&quot;. The flange is 1/2&quot; for 3/4&quot; CRC, and 17/32&quot; for 1-1/2&quot; and 2&quot; CRC. CRC is made from 54 mil (16 gauge) and is available in lengths of 10 and 20 feet, and any length can be special ordered. Other sizes may be available as brake shapes.</td>
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<tr>
<td><strong>J-TRACK</strong></td>
<td>J-Track is available in widths of 2-1/2&quot;, 4&quot;, and 6&quot;. The short flange is available in 1&quot; and 2&quot;, and the longer flange is 2-1/4&quot;. J-Track is available in thicknesses of 43 mils (18 gauge), 33 mils (20 gauge), 30 mils (20DW), and 18 mils (25 gauge).</td>
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Notes: 1 mil = 0.001" Mil is design thicknesses. Call for other available thicknesses. Not all available webs are listed.
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<td>SUPER WOODIES™ BUGLE HEAD</td>
<td>100 &amp; 100YZ</td>
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<td>28.6</td>
<td>1/4&quot;-1/2&quot; Gypsum to Wood</td>
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<tr>
<td>#2 PHILLIPS</td>
<td>200 &amp; 200YZ</td>
<td># 6 X 1-1/8&quot;</td>
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<td>30.8</td>
<td>1/2&quot;-5/8&quot; Gypsum to Wood</td>
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<td>27.8</td>
<td>Double Layer of Gypsum to Wood</td>
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<td># 6 X 2-1/4&quot;</td>
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<td>Multiple Layers of Gypsum or Other Materials to Wood</td>
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<tr>
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<td>900 &amp; 900YZ</td>
<td># 7 X 2-1/2&quot;</td>
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<td>1100 &amp; 1100YZ</td>
<td># 8 X 3&quot;</td>
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<td>20.2</td>
<td>Deep Recess Sharp Point</td>
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<td>#2 SQUARE</td>
<td>90-114</td>
<td># 6 X 1-1/4&quot;</td>
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<td>30.8</td>
<td>Temporary Gypsum to Gypsum</td>
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<tr>
<td>#2 SQUARE / #2 PHILLIPS</td>
<td>90-112SQ</td>
<td># 6 X 1-1/2&quot;</td>
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<td>CABINET SCREWS</td>
<td>90-112ZSQ</td>
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<td>PAN HEAD - TYPE 17 PT.</td>
<td>90-212ZSQ</td>
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<td>CABINET SCREWS</td>
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<td>Cabinet Screws are used for Cabinet &amp; Face Frame Installation Type 17 Point Helps Prevent Wood Surface from Splitting</td>
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</table>

*Z or YZ denotes availability in zinc coating.

November 1, 2005

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PAGE 6
## STEELER® INC.
### Construction Screws

STEELER® Construction Screws are Produced in ISO 9002 & ISO 14001 Certified Environments and Meet or Exceed ASTM Designation C 954 or C 1002.

<table>
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<tr>
<th>DESCRIPTION</th>
<th>PART #</th>
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*Note: Z denotes availability in zinc coating.

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March 10, 2003

Mike Vailencour
Steeler, Inc.
Marketing and Project support
10023 Martin Luther King Way South
Seattle, Washington 98178

Dear Mr. Vailencour:

In reference to your request, the above-reference evaluation report dated March, 1994 continues to be in good standing under the 1991 Uniform Building Code™. Reissuance of the evaluation report continues, pending acceptance of the technical revisions.

If you have any questions, please contact me at (562) 699-0543, extension 3260.

Yours very truly

Peter Bahlo
Senior Staff Engineer

PB/ns
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- Cold-Rolled Channel
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- Steeler Slotted Studs™
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*Denotes availability in zinc coating

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