

WALLS WHERE DIAGONAL IS ATTACHED TO TOP OF WALL

2"x2"x6' LG, 12 GA FRAMING CLIP W/(3)-#8 SCREWS EA LEG

CONTINUOUS TRACK (GAUGE TO MATCH WALL STUD, EXCEPT USE 20 GAUGE MIN TRACK)

AT DIAGONAL, ATTACH TRACK TO WALL STUD W/(2)-#8 SCREWS EACH SIDE

CENTER DIAGONAL OVER VERTICAL STUD

CONNECT TO EXISTING STRUCTURE PER DETAIL J/A08.4

LENGTH OF DIAGONAL

VIEWS A-A & B-B

NOTE: FOR DOUBLE STUD DIAGONALS, "SECOND" STUD SHALL END AS CLOSE AS POSSIBLE TO END CONNECTION, TOP & BOTTOM.

(4)-#8 SCREWS

CONNECT TRACK TO VERT STUDS W/(1)-#8 SCREW IN EACH FLANGE OF EACH STUD, EXCEPT INSTALL (2)-#8 SCREWS IN EACH FLANGE AT VERT STUDS WITH DIAGONALS

WALL OR STOREFRONT STUD.

DIAGONAL BRACING OPTIONS

20 GA. DIAGONAL BRACE OPTIONS:

DIAGONAL LENGTH- UP TO 12'-0"

SINGLE 3 5/8", 20 GA. DIAGONAL

VIEW A-A

DIAGONAL LENGTH- 12'-1" TO 20'-0" \*

DBL 3 5/8", 20 GA. STUDS WITH 1 5/8" WIDE FLANGES

1 5/8"

#8 SCREWS @ 12" c/c

VIEW B-B

SPACING OF DIAGONAL BRACING INTERIOR PARTITIONS - 60' O.C. MAX STOREFRONT FRAMING - 48' O.C. MAX EXTERIOR WALLS - 48' O.C. MAX

\* CONTACT ARCHITECT FOR LENGTHS LONGER THAN 20'-0".

BRIDGING DETAIL

1" = 1'-0"

M

05/21/13

MTL STUD FRAMING, TYP. SEE WALL LEGEND ON ARCH DRAWINGS, & DETAIL E/A08.4 FOR STUD MATRIX

2" x 2" x 16 GA CHANNEL CLIP ANGLE 1/4" LESS THAN STUD WIDTH, TYP. - ATTACH AT EVERY STUD WITH (4) #8 SCREWS

AT LOCATIONS WHERE VERTICAL STUD SPACING IS TIGHT, (MAKING INSTALLATION OF ANGLES DIFFICULT AFTER STUDS ARE IN PLACE), ATTACH ANGLES TO STUDS BEFORE INSTALLING STUDS.

NOTE: BRIDGING IS NOT REQUIRED IF SHEATHING IS ATTACHED TO BOTH FACES OF THE STUD. (SHEATHING INCLUDES, BUT IS NOT LIMITED TO, GYPSUM BOARD, PLYWOOD, CEMENT BOARD, ETC.)

1 1/2" WIDE x 1/2" DP x 16 GA COLD-ROLLED CHANNEL - LOCATE AT 5'-0" O.C. MAX VERTICALLY

#8 SCREWS, TYP

TOP TRACK

METAL STUD x 1'-0"

SECTION

6'

6'

VERTICAL WALL STUD

TOP TRACK SPLICE (CENTERED BETWEEN VERT STUDS)

METAL STUD x 1'-0" (GAUGE TO MATCH GAUGE OF TRACK)

COLD FORMED METAL FRAMING - CROSS REFERENCE GUIDE

MIL. THICKNESS - GAUGE NUMBER CROSS REFERENCE

25 GA. ----- 18 MIL	16 GA. ----- 54 MIL
22 GA. ----- 27 MIL	14 GA. ----- 68 MIL
20 GA. ----- 33 MIL	12 GA. ----- 47 MIL
18 GA. ----- 43 MIL	

EXAMPLE CROSS REFERENCE:

3 5/8", 18 GA STRUCTURAL METAL STUD = 362 S 162 - 43 METAL STUD

STUD DEPTH (T-TRACK) = 3.625" = 3 5/8"

FLANGE WIDTH (S-TRACK) = 1.625" = 1 5/8"

STUD THICKNESS = 43 MIL (18 GA.)

TYPICAL STRUCTURAL STUDS AND TRACKS

FORMER STANDARD DESIGNATION	NEW SSMA DESIGNATION (STEEL STUD MANUFACTURERS ASSOCIATION)
2 1/2", 20 GA. STUD w/ 1 5/8" FLANGE	250S162-33
2 1/2", 18 GA. STUD w/ 1 5/8" FLANGE	250S162-43
3 5/8", 20 GA. STUD w/ 1 5/8" FLANGE	362S162-33
3 5/8", 18 GA. STUD w/ 1 5/8" FLANGE	362S162-43
6", 20 GA. STUD w/ 1 5/8" FLANGE	600S162-33
6", 18 GA. STUD w/ 1 5/8" FLANGE	600S162-43
8", 18 GA. STUD w/ 1 5/8" FLANGE	800S162-43
8", 16 GA. STUD w/ 1 5/8" FLANGE	800S162-54
10", 18 GA. STUD w/ 1 5/8" FLANGE	1000S162-43
10", 16 GA. STUD w/ 1 5/8" FLANGE	1000S162-54
12", 16 GA. STUD w/ 1 5/8" FLANGE	1200S162-54
12", 12 GA. STUD w/ 1 5/8" FLANGE	1200S162-97
1 5/8", 22 GA. TRACK w/ 1 1/4" LEG	162T125-27
1 5/8", 20 GA. TRACK w/ 1 1/4" LEG	162T125-33
2 1/2", 20 GA. TRACK w/ 1 1/4" LEG	250T125-33
2 1/2", 18 GA. TRACK w/ 1 1/4" LEG	250T125-43
2 1/2", 18 GA. TRACK w/ 2" LEG	250T200-43
3 5/8", 20 GA. TRACK w/ 1 1/4" LEG	362T125-33
3 5/8", 20 GA. TRACK w/ 2" LEG	362T200-33
3 5/8", 18 GA. TRACK w/ 1 1/4" LEG	362T125-43
3 5/8", 18 GA. TRACK w/ 2" LEG	362T200-43
6", 20 GA. TRACK w/ 1 1/4" LEG	600T125-33
6", 20 GA. TRACK w/ 2" LEG	600T200-33
6", 18 GA. TRACK w/ 1 1/4" LEG	600T125-43
6", 18 GA. TRACK w/ 2" LEG	600T200-43

TYPICAL HAT (FURRING) CHANNELS

7/8", 25 GA. FURRING CHANNEL	087F125-18
7/8", 22 GA. FURRING CHANNEL	087F125-27

COLD FORMED METAL FRAMING SCREW CONNECTIONS

UNLESS NOTED, COLD FORMED METAL FRAMING CONNECTIONS SHALL BE MADE USING #8 SCREWS. SEE DETAIL R/A08.4 FOR DIAGONAL BRACING CONNECTIONS.

AT LOCATIONS WHERE SHEATHING MATERIAL IS PLACED AGAINST THE SCREW HEADS OF LIGHTGAUGE METAL FRAMING CONNECTIONS, PANCAKE HEAD SCREWS SHALL BE USED SO THAT THE SHEATHING MATERIAL REMAINS STRAIGHT AND SMOOTH.

SEISMIC DESIGN CATEGORIES C, D, E & F

DEFLECTION TRACK WALL ATTACHEMENT TO METAL DECK

3" = 1'-0"

D

05/21/13

18 GA VERTICAL SLOTTED SLIP-TRACK "SLIP-TRK" BY DIETRICH SYSTEMS, INC. (DEPTH TO MATCH VERTICAL STUD DEPTH) ATTACH TO STRUCTURE W/ (2) #12 SCREWS AT 12" O.C.

3/4" MAX

1" DEFL. GAP

SEE SCHEDULES FOR FINISHES AND STUD SIZES

(1) #8 WAFERHEAD SCREW IN EACH FLANGE OF EACH VERT STUD. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

INSTALL SLIP TRACK AND FIRE-SAVING MATERIALS PER MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE ONE HOUR FIRE RATING

NOTE: CONSTRUCT WALL PER UL ASSEMBLY REQUIREMENTS SHOWN ON ARCHITECTURAL DRAWINGS.

NOTE: SEE STOREFRONT FRAMING PLAN A/A08.1 FOR LOCATIONS WHERE BEAM IS CONTINUOUS ACROSS TOP OF COLUMN

SEE PLAN & SECTIONS FOR BUILT-UP BOX BEAM

18 GA. PLATE EACH SIDE WITH (6)-#8 PAN HEAD SCREWS

18 GA TOP TRACK (TRACK DEPTH SHALL MATCH STUD DEPTH).

STOP FULL LENGTH TRACKS OF BUILT-UP COLUMN SHORT OF TOP TRACK

3 5/8" OR 6" DEEP STUDS AS REQUIRED BY OTHER SECTIONS AND DETAILS

3 5/8" OR 6" DEEP TRACK AS REQUIRED BY OTHER SECTIONS AND DETAILS

STOP FULL LENGTH TRACKS OF BUILT-UP COLUMN SHORT OF BASE TRACK

(2)-#8 PAN HEAD SCREWS EACH SIDE

18 GA BASE TRACK (TRACK DEPTH SHALL MATCH STUD DEPTH).

(4)-#8 CONCRETE SCREWS

LIGHTGAUGE BOX BEAM TO COLUMN CONNECTION (TYP. UNLESS NOTED)

LIGHTGAUGE BOX COLUMN BASE CONNECTION (TYP. UNLESS NOTED)

BUTT-SPLICE

AT LOCATIONS WHERE BEAMS MUST BE BUTT-SPLICED OVER COLUMN

TYPICAL DIAGONAL BRACING SEISMIC DESIGN CATEGORY C

1" = 1'-0"

R

05/21/13

TOP TRACK SPLICE

N.T.S.

L

05/21/13

EXIST JOIST CHORD OR BEAM FLG

ATTACH (1) TO EXIST STL W/(3)-#12 SCREWS

DIAG BRACE

VIEW A-A

EXIST MTL DECK OR COMP CONC SLAB

CONNECTION AT EXIST BEAM

ATTACH (1) TO EXIST STL W/(3)-#12 SCREWS

EXIST JOIST CHORD OR BEAM FLG

DIAG BRACE

VIEW B-B

(6)-#12 SCREWS AT EACH ATTACHMENT

EXIST MTL DECK OR COMP CONC SLAB

DIAG BRACE

VIEW C-C

1" MAX

EXIST BAR JOISTS OR STEEL BEAMS @ 6'-0" O.C. MAX

DIAGONAL PERPENDICULAR TO EXIST BAR JOISTS OR STEEL BEAMS

EXIST BAR JOISTS OR STEEL BEAMS @ 6'-0" O.C. MAX

DIAGONAL PARALLEL TO EXIST BAR JOISTS OR STEEL BEAMS

VIEW D-D

#12 SCREWS (TYP)

(2) 2x2x0'-3", 12 GA FRAMING CLIPS

#12 SCREWS, TYP

DIAGONAL BRACING

EXISTING JOIST

VIEW D-D

CODED NOTES:

(1) 6", 16 GA MTL STUD WITH 6", 16 GA DEEP LEG TRACK.

(2) 2 x 2 x 12 GA x 6' LG FRAMING CLIP, ONE SIDE OF DIAG, W/(3)-#12 SCREWS EACH LEG.

#12 SCREWS @ 6' O.C. MAX AND 2" FROM EACH END

CONTACT ARCHITECT FOR REVISED DETAILS IF JOIST OR BEAM SPACING EXCEEDS 6'-0".

COLD FORMED METAL METAL FRAMING

N.T.S.

G

05/21/13

LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS SALES PARTITIONS WITHOUT SHELVING ATTACHED NON-SALES PARTITIONS WITHOUT SHELVING ATTACHED ALL SEISMIC DESIGN CATEGORIES

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM WALL HEIGHT OR MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	17'-6"
362S162-43	3-5/8"	1-5/8"	18	16"	19'-0"
362S162-54	3-5/8"	1-5/8"	16	16"	20'-6"
600S162-33	6"	1-5/8"	20	16"	26'-6"
600S162-43	6"	1-5/8"	18	16"	28'-6"
600S162-54	6"	1-5/8"	16	16"	30'-0"

LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS SALES PARTITIONS WITH SHELVING ATTACHED SEISMIC DESIGN CATEGORY C

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	15'-0"
362S162-43	3-5/8"	1-5/8"	18	16"	16'-6"
362S162-54	3-5/8"	1-5/8"	16	16"	18'-0"

LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS NON-SALES PARTITIONS WITH SHELVING ATTACHED SEISMIC DESIGN CATEGORY C

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	15'-0"
362S162-43	3-5/8"	1-5/8"	18	16"	16'-6"
362S162-54	3-5/8"	1-5/8"	16	16"	17'-0"

NOTE: AT LOCATIONS WHERE A STUD WALL SUPPORTS BOTH SALES AND NON-SALES SHELVING, THE STUDS SHOWN IN THE TABLE ABOVE SHALL BE "DOUBLED UP" AS FOLLOWS:

DBL STUD

#8 SCREWS @ 8" O.C.

IN ADDITION, THE SPACING OF THE TOP AND BOTTOM WALL TRACK CONNECTIONS TO THE EXISTING STRUCTURE SHALL BE REDUCED TO 6" O.C. MAX., AND DIAGONAL SPACING SHALL BE REDUCED TO 32" O.C.

NOTES:

- DESIGN BASED ON ALLOWABLE DEFLECTION OF L/360.
- DESIGN BASED ON PY = 39 KSI FOR 3 5/8" & 6" STUDS LESS THAN 16 GAUGE.
- DESIGN BASED ON PY = 50 KSI FOR 3 5/8", 16 GAUGE & 6", 16 GAUGE STUDS.
- PROVIDE HORIZONTAL BRIDGING @ 4'-0" O.C. MAX PER MANUFACTURER'S RECOMMENDATIONS.
- DESIGN BASED ON MINIMUM 5 PSF LATERAL LOAD, OR LATERAL SEISMIC LOAD, WHICHEVER CONTROLS.
- TABLE IS VALID FOR (1) LAYER OF GYPSUM BOARD EACH FACE.
- FOR STUD DESIGNATIONS REFER TO G/A08.4.

COLD FORMED METAL BOX COLUMN DETAIL

3" = 1'-0"

A

05/21/13

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LIGHTGAUGE BOX COLUMN BASE CONNECTION (TYP. UNLESS NOTED)

BUTT-SPLICE

AT LOCATIONS WHERE BEAMS MUST BE BUTT-SPLICED OVER COLUMN

EXPRESS

EXPRESS FASHION OPERATIONS, LLC

d/b/a STORE DESIGN & CONSTRUCTION

1 Express Drive Columbus, Ohio 43230

Telephone: 614.474.4001 Express.com

1718

PROJECT INFORMATION:

EXPRESS OUTLET MALL OF SAVANNAH

200 TANGER OUTLET BLVD.

POOLER, GA 31322

SCOPE: DESIGN TYPE: ESD&C PROJECT #:

REVISIONS:

REQUIRED BY: DATE:

SHREMSHOCK

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NOTE: THESE PRINTS HAVE BEEN REDUCED BY 50 PERCENT SCALE WILL BE 50 PERCENT OF WHAT IS NOTED ON PLANS

DATE ISSUED: 09/26/14

DESIGNED BY: JJB

DRAWN BY: JEB

CHECKED BY: KMM/APS

FRAMING DETAILS

DRAWING NUMBER:

A08.4