LIGHT GAUGE STEEL – MATERIAL STANDARDS

1. DETAILS ON THIS SHEET ARE ACCEPTABLE ALTERNATES FOR BUILT-UP SECTIONS SHOWN IN THE CONTRACT DOCUMENTS.
2. ALL WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - A. 2006 INTERNATIONAL BUILDING CODE
   - B. AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
   - C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
3. ALL STUD AND TRACK MATERIAL TO CONFORM TO THE FOLLOWING:
   - A. 54 MIL (GAUGE) AND HEAVIER:
     50 KSI MIN. YIELD, 65 KSI MIN. TENSILE STRENGTH
     PAINTED STEEL PER ASTM A570 – GRADE 50
     GALVANIZED STEEL PER ASTM A653 – GRADE 50
   - B. 43 MIL (GAUGE) AND LIGHTER:
     33 KSI MIN. YIELD, 45 KSI MIN. TENSILE STRENGTH
     PAINTED STEEL PER ASTM A611 – GRADE C
     GALVANIZED STEEL PER ASTM A653 – GRADE 33
4. MISCELLANEOUS STEEL TO CONFORM TO THE FOLLOWING:
   - A. 30 MIL – 43 MIL 33 KSI MIN. YIELD
   - B. 54 MIL – 97 MIL 50 KSI MIN. YIELD
5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE SUCH AS BRACING TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
6. ALL STUDS SHALL BE ATTACHED BY SCREWS UNLESS NOTED OTHERWISE. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
7. ALL CALCULATED STUD PROPERTIES PER AISI SPECIFICATION ARE BASED ON THE FOLLOWING THICKNESS:
   - A. 12 GAUGE (97 MIL) 0.1017"
   - B. 14 GAUGE (68 MIL) 0.0713"
   - C. 16 GAUGE (54 MIL) 0.0566"
   - D. 18 GAUGE (43 MIL) 0.0451"
   - E. 20 GAUGE (33 MIL) 0.0346"
8. WHEN PUNCHED HOLES IN STUDS ARE PRESENT LOCATE SCREWS SUCH THAT MINIMUM OF 3/8" DISTANCE FROM SCREW TO PUNCHOUT IS PROVIDED.
9. THESE DRAWINGS ASSUME THAT THE PRIMARY STRUCTURE INTENDED TO SUPPORT AND RESIST LOADS PRODUCED BY THE INTERIOR/ EXTERIOR FRAMING SYSTEM HAVE BEEN ADEQUATELY DESIGNED FOR THIS PURPOSE UNLESS SPECIFICALLY NOTED.
10. ALL PRO-X CLIPS ARE 54 MIL.
11. MAXIMUM GAP BETWEEN END OF PRO-X HEADER AND JAMB TO BE 3/8" EACH SIDE.
12. ALL FASTENERS/SCREWS CAN BE INSTALLED IN EITHER DIRECTION (I.E. CLIP TO JAMB OR JAMB TO CLIP).
13. SCREWS SHALL BE #8 OR #10 SHEET METAL SCREWS WITH SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.
14. CONTRACTOR OPTION: #10 SCREWS MAY BE USED WHERE #8 SCREWS ARE SPECIFIED.
15. CONTRACTOR OPTION: THE USE OF A STUD WITH A LARGER FLANGE OR A THICKER STUD (OR BOTH) THAN THE SPECIFIED STUD IS STRUCTURALLY ACCEPTABLE.

SSMA NOMENCLATURE/ PRODUCT INFORMATION

MEMBER IDENTIFICATION SHALL BE AS SHOWN:

① MEMBER DEPTH:
EXAMPLE:
(3.625"=362/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL SECTIONS 'X' AND 'XTC' THE SECTIONS MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.

② STYLE:
EXAMPLE:
(MEMBER TYPE SECTIONS = X)
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:

S = STUD
T = TRACK
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

③ FLANGE WIDTH:
EXAMPLE:
(1 5/8"=1.625"=162x1/100 INCHES)
ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

④ MATERIAL THICKNESS:
EXAMPLE: (0.054IN. = 54MILS; 1 MIL. = 1/1000 IN.)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

① ② ③ ④
362 S 162 – 54

SSMA NOMENCLATURE/ PRODUCT INFORMATION

SAMPLE 362=3 5/8"
362 X 425–54
362 = MEMBER (WIDTH) DEPTH/X=PRO X OUTER (STYLE) / 425= FLANGE WIDTH (LEG HEIGHT) /54 = MATERIAL (GAUGE) THICKNESS.

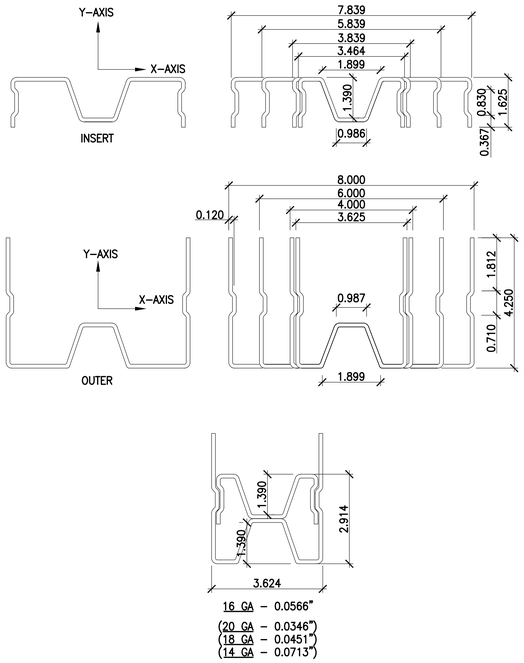
362 XT 162–54
362 = MEMBER (WIDTH) DEPTH/XT=PRO X INSERT (STYLE) / 162 = FLANGE WIDTH (LEG HEIGHT) /54 = MATERIAL (GAUGE) THICKNESS.

362 XTC 425–54
362 = MEMBER (WIDTH) DEPTH/XTC=PRO X COMBO (STYLE) / 425 = FLANGE WIDTH (LEG HEIGHT) /54 = MATERIAL (GAUGE) THICKNESS.

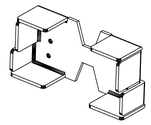
362 CLIP 150–54
362 = MEMBER (WIDTH) DEPTH/CLIP=PRO X CLIP (STYLE) / 150 = FLANGE WIDTH (LEG HEIGHT) /54 = MATERIAL (GAUGE) THICKNESS.

PRO–X ICC ESR–1765

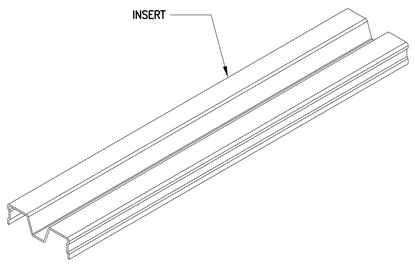
NOTES

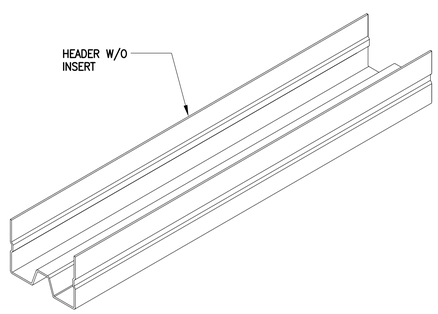


PRO–X AXIS ORIENTATION AND DIMENSIONS

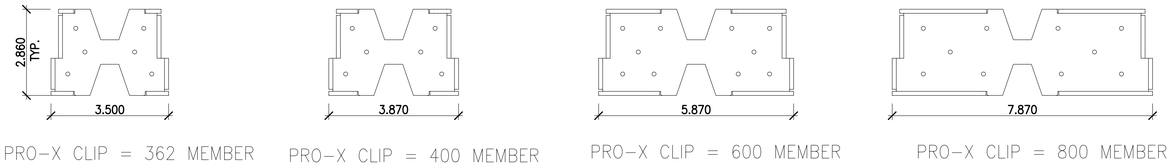


CLIP



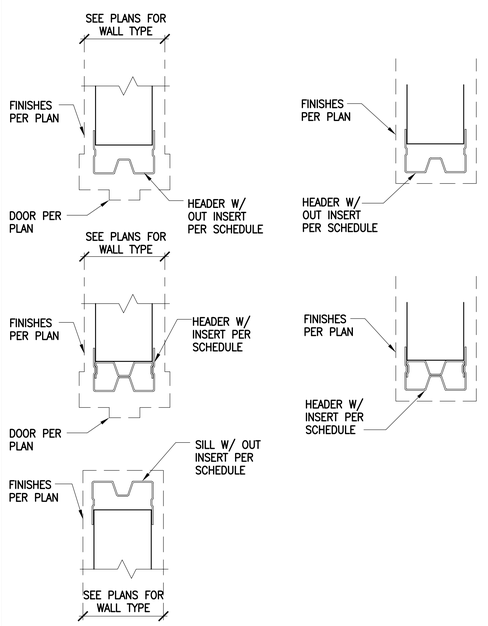


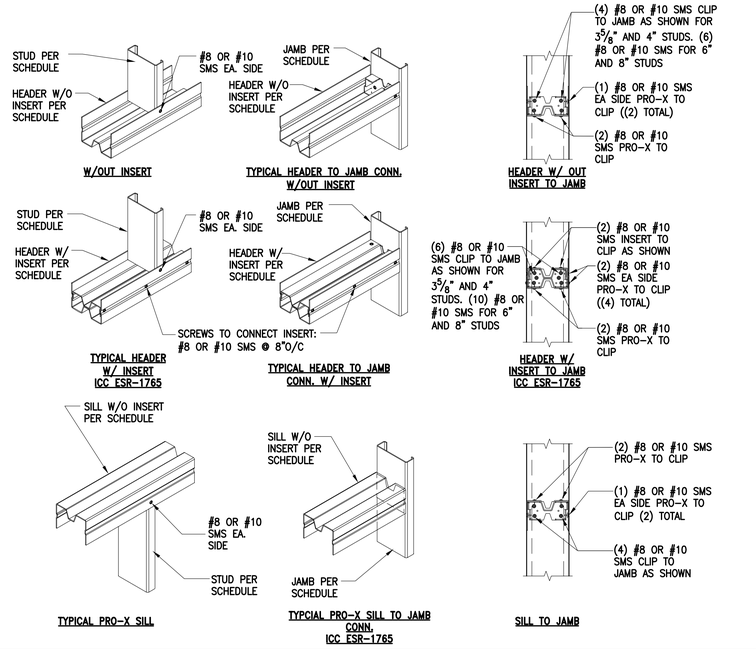
ISOMETRIC VIEWS
ICC ESR–1765



PRO-X HEADER CLIP DIMENSIONS
ICC ESR-1765

N.T.S. 3

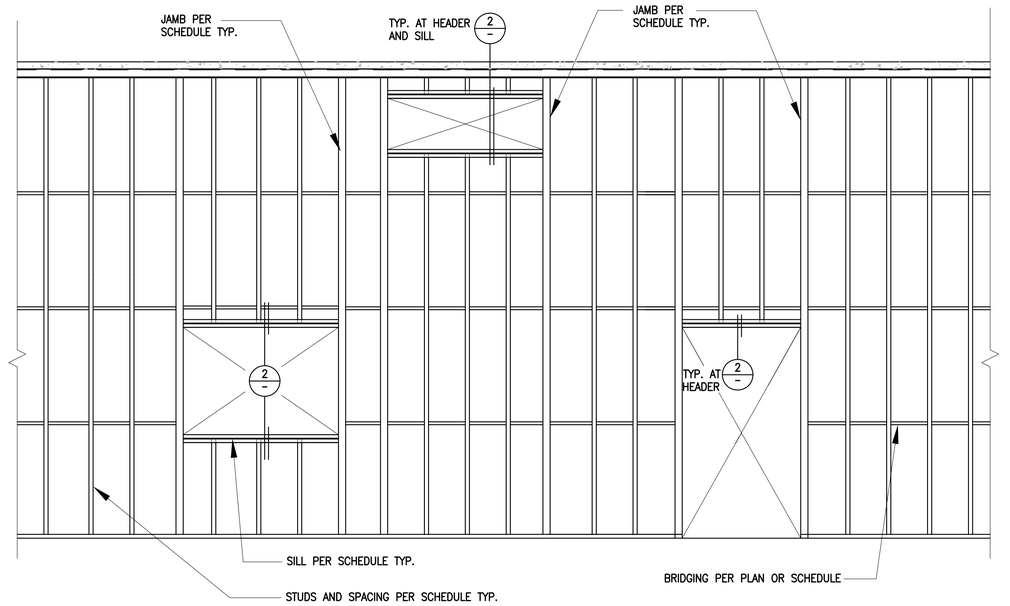




FINISHES

TYP. HEADER AND SILL CONDITIONS
ICC ESR-1765

N.T.S. 2



TYP. WALL ELEVATION

N.T.S. 1

NOTE: ENGINEER SHALL SPECIFY GAUGE AND SIZE OF PRO–X PRODUCTS USING THE PROJECT LOADS AND SPANS ALONG WITH THE SECTION PROPERTIES PROVIDED IN THE ICC ESR–1765 REPORT.

Brady Building a Better Way.
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PRO-X HEADER
ICC ESR-1765

REGISTERED PROFESSIONAL ENGINEER — HOWARD A. CASTLE — NO. 4063 Exp. 9/30/11 — STRUCTURAL — STATE OF CALIFORNIA

REV.	DATE	DESCRIPTION

DRAWN BY EMB
DATE 01–14–10
SHEET TITLE
PROJECT NO.
SHEET NO.