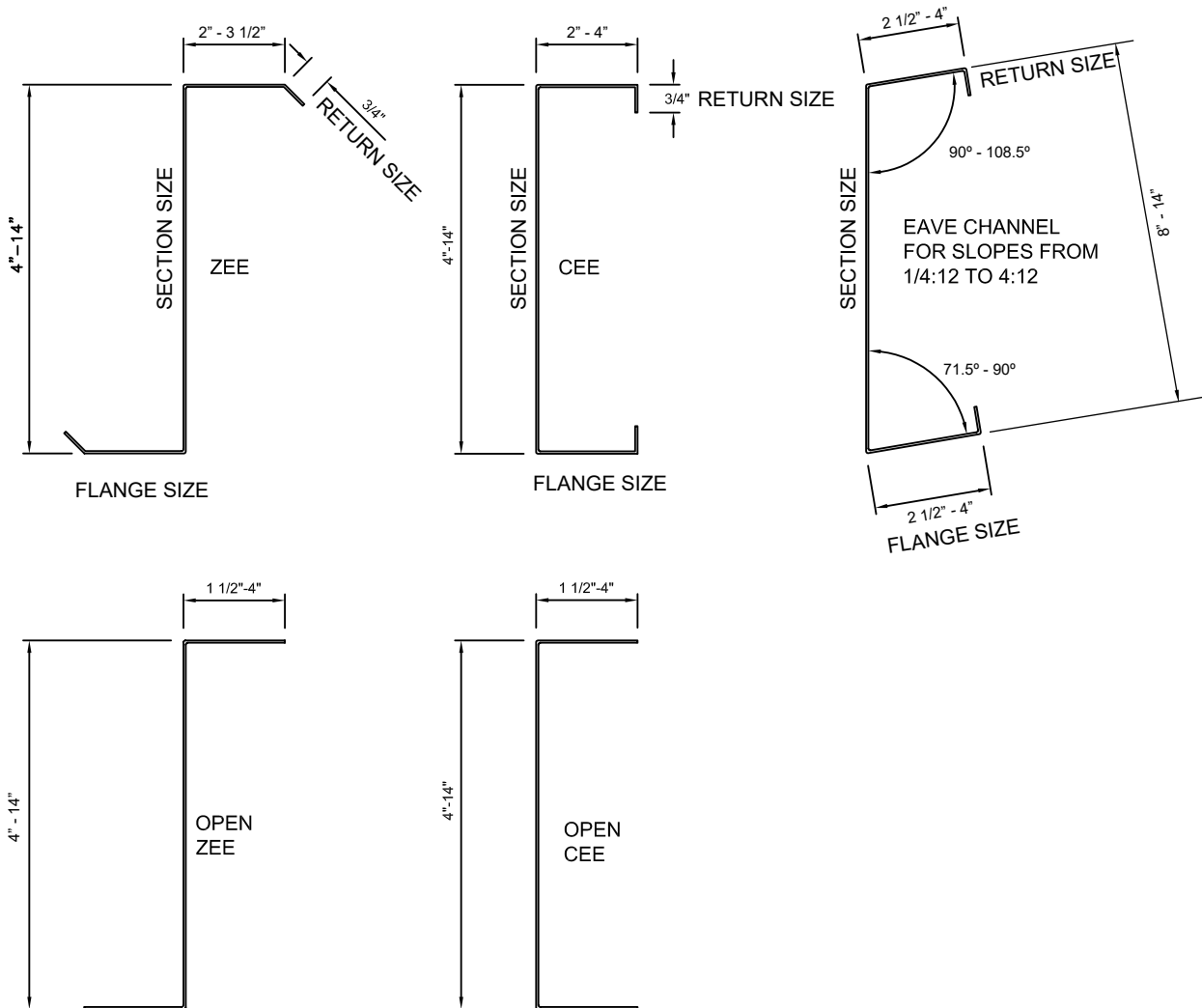


Commercial Components

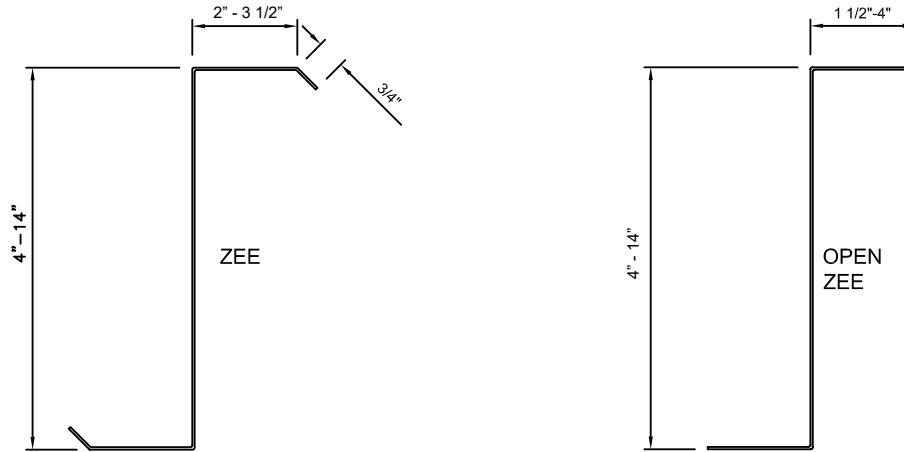
Westman continues to refine and improve based on changes to the industry. Westman and its affiliated companies and suppliers, reserves the right to change details, specifications, designs or products at any time. Please contact Westman or local representative for the latest information available.





NOTES

1. All Dimensions are shown in inches
2. Material: 10, 12, 14, 16, 18 Ga. Galvanized steel yield strength will vary - please call for confirmation.
3. All inside bend radii are 0.188"
4. Standard angle of returns are as follows:
Zee 135°
Cee 90°
Eave Channel 90°
5. All returns sizes shown on standard sizes are "nominal", actual dimension varies and is determined by material gauge and width
6. Eave channel "height" varies to suit roof slope.
7. Standard eave channels have identical top & bottom flange size and shapes.
8. Maximum slope for 14" eave channel is 1:12



Standard Girt / Purlin Sizes

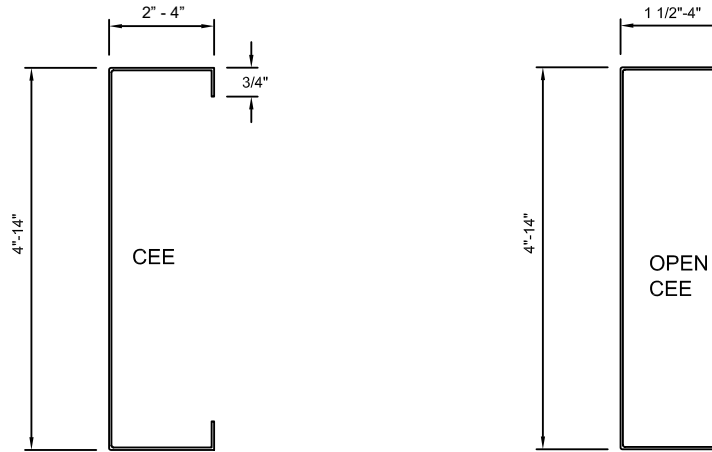
	4Z18	4Z16	4Z14	5Z18	5Z16	5Z14	6Z16S	6Z16	6Z14	6Z12	8Z10	8Z16	8Z14	8Z13	8Z12	9Z16	
Flange Size (in)	3	2 5/16	3 1/4	2 1/2	3	2 11/16	1 1/4	3 3/4	3 3/4	3 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	1 3/4	
Return Size (in)	0	0	0	0	3/4	0	0	3/4	3/4	3/4	13/16	3/4	3/4	3/4	3/4	0	
Blank Size (in)	9 3/4	8 1/4	10	9 3/4	12 1/4	10	8 1/4	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	12 1/4	
	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi									40 ksi	

	10Z16	10Z14	10Z13	10Z12	118Z14	118Z13	118Z12	118Z11	118Z10	12Z14	12Z13	12Z12	12Z11	12Z10	14Z12	14Z10	
Flange Size (in)	2 3/4	2 3/4	2 3/4	2 3/4	3	3	3	3	3	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	3 1/2	3 1/2	
Return Size (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Blank Size (in)	16 1/2	16 1/2	16 1/2	16 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	22	22	

NOTES

Sizes are based on the height in inches followed by the shape initial letter designation and the gauge of steel.
Example 8C12 (8" Channel 12 Gauge)

Refer to Roll Form Profiles page for general notes.



Standard Channel Sizes

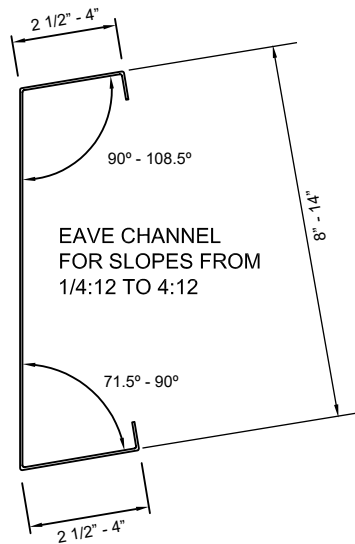
	4C18	4C16	4C14	5C18	5C16	5C14	6C16S	6C16	6C14	6C12	8C10	8C16	8C14	8C13	8C12		
Flange Size (in)	3	2 5/16	3 1/4	2 1/2	3	2 11/16	1 1/4	3 3/4	3 3/4	3 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4		
Return Size (in)	0	0	0	0	3/4	0	0	3/4	3/4	3/4	1	3/4	3/4	3/4	3/4		
Blank Size (in)	9 3/4	8 1/4	10	9 3/4	12 1/4	10	8 1/4	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2		
	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi	40 ksi										

	10C16	10C14	10C13	10C12	118C14	118C13	118C12	118C11	118C10	12C14	12C13	12C12	12C11	12C10	14C12	14C10	
Flange Size (in)	2 3/4	2 3/4	2 3/4	2 3/4	3	3	3	3	3	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	3 1/2	3 1/2	
Return Size (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Blank Size (in)	16 1/2	16 1/2	16 1/2	16 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	22	22	

NOTES

Sizes are based on the height in inches followed by the shape initial letter designation and the gauge of steel.
 Example 8C12 (8" Channel 12 Gauge)

Refer to Roll Form Profiles page for general notes.



Standard Eave Channel Sizes

	8E16	8E14	8E13	8E12	10E14	10E13	10E12	10E11	10E10	118E10	12E10	14E12	14E10				
Flange Size (in)	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4				
Return Size (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
Blank Size (in)	16 1/2	16 1/2	16 1/2	16 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	20 1/2	20 1/2	22	22				

NOTES

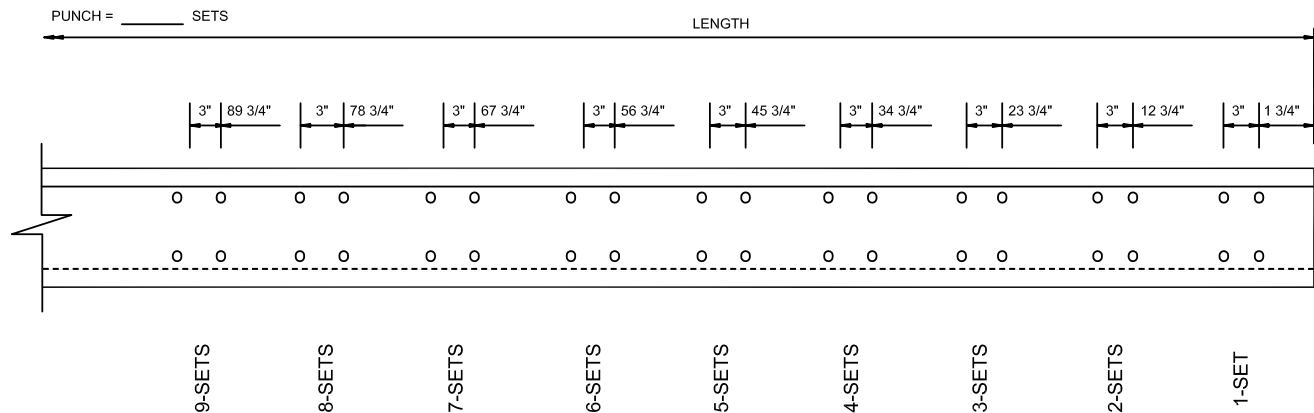
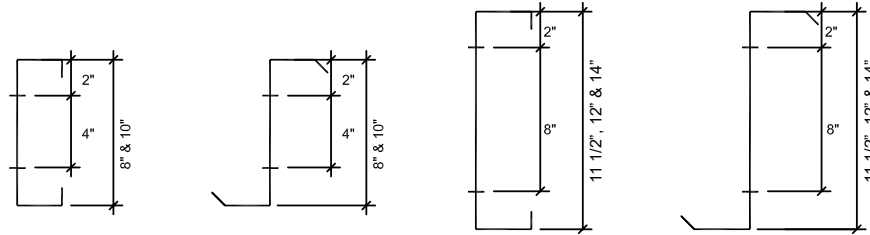
Sizes are based on the height in inches followed by the shape initial letter designation and the gauge of steel.
Example 8C12 (8" Channel 12 Gauge)

Refer to Roll Form Profiles page for general notes.

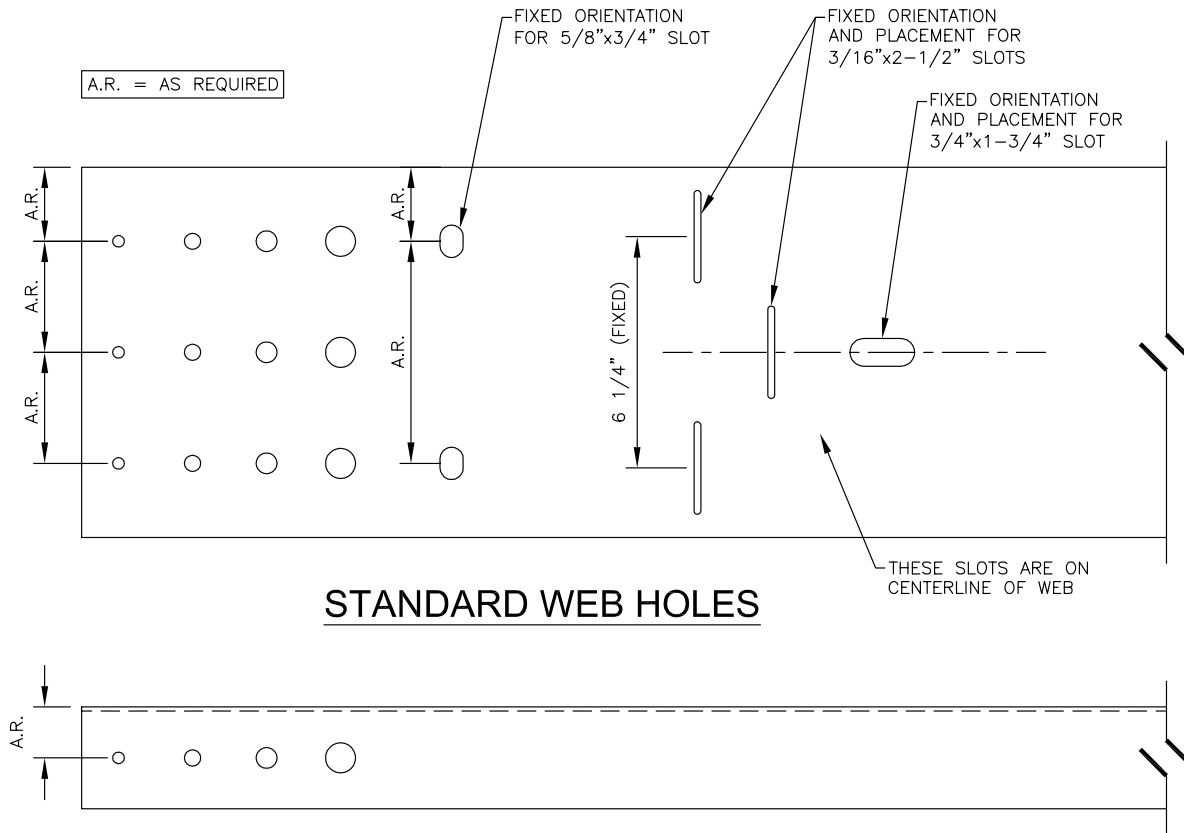
NOTE:

C CHANNEL - STANDARD PUNCH = 9/16" HOLE

Z CHANNEL - STANDARD PUNCH = 5/8" x 3/4" SLOT



BEHLEN STANDARD PUNCH SETS		(TYPICAL EACH END AS INDICATED)
1-SET	(1 3/4", 4 3/4")	
2-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4")	
3-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4")	
4-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4")	
5-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4") (45 3/4", 48 3/4")	
6-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4") (45 3/4", 48 3/4") (56 3/4", 59 3/4")	
7-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4") (45 3/4", 48 3/4") (56 3/4", 59 3/4") (67 3/4", 70 3/4")	
8-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4") (45 3/4", 48 3/4") (56 3/4", 59 3/4") (67 3/4", 70 3/4") (78 3/4", 81 3/4")	
9-SETS	(1 3/4", 4 3/4") (12 3/4", 15 3/4") (23 3/4", 26 3/4") (34 3/4", 37 3/4") (45 3/4", 48 3/4") (56 3/4", 59 3/4") (67 3/4", 70 3/4") (78 3/4", 81 3/4") (89 3/4", 92 3/4")	



STANDARD WEB HOLES

STANDARD FLANGE HOLES

NOTES

STANDARD HOLE SIZES AS FOLLOWS:

- 9/32", 7/16", 9/16", & 13/16"

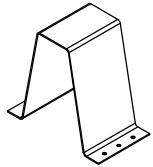
(SEVERAL HOLE SIZES ARE AVAILABLE FOR DIFFERENT APPLICATIONS).

STANDARD SLOT SIZES AS FOLLOWS:

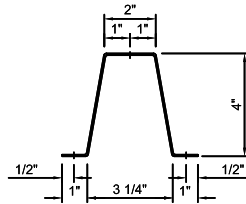
- 3/4" x 1 3/4" (SUPPLIED FOR CABLE BRACING), AND

- 3/16" x 2 1/2" (SUPPLIED FOR STANDARD PURLIN STABILIZER)

- 5/8" x 3/4" SLOT STANDARD IN GIRTS & PURLINS (THE SLIGHTLY LARGER HOLE SIZE REDUCES BOLT-UP PROBLEMS AT LAPPED GIRTS AND PURLINS).



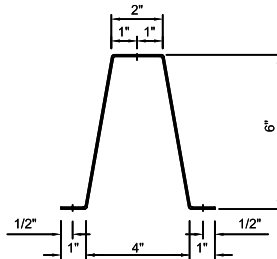
4" THERMAL CLIP
x 4 13/16" LONG



MATERIAL	PART NO.	WEIGHT
12 GA.	556484	1.73#
13 GA.	556483	1.50#
14 GA.	556482	1.22#
16 GA.	556481	1.01#
18 GA.	556480	0.82#



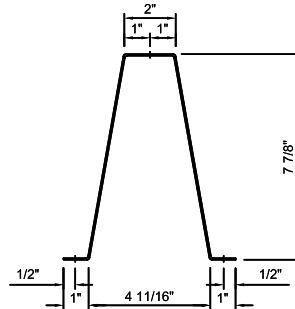
6" THERMAL CLIP
x 4 13/16" LONG



MATERIAL	PART NO.	WEIGHT
12 GA.	556489	2.33#
13 GA.	556488	2.02#
14 GA.	556487	1.65#
16 GA.	556486	1.37#
18 GA.	556485	1.11#



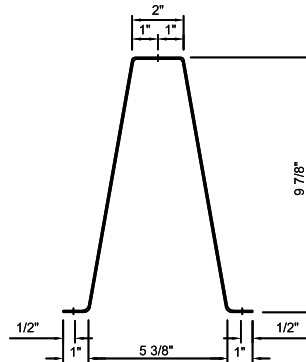
8" THERMAL CLIP
x 4 13/16" LONG



MATERIAL	PART NO.	WEIGHT
12 GA.	556499	2.93#
13 GA.	556498	2.54#
14 GA.	556497	2.07#
16 GA.	556496	1.72#
18 GA.	556495	1.39#



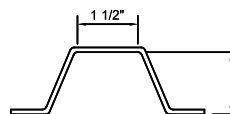
10" THERMAL CLIP
x 4 13/16" LONG



MATERIAL	PART NO.	WEIGHT
12 GA.	556504	3.53#
13 GA.	556503	3.06#
14 GA.	556502	2.50#
16 GA.	556501	2.07#
18 GA.	556500	1.68#



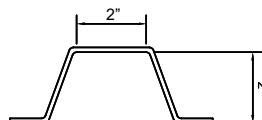
1 3/16" HAT CHANNEL



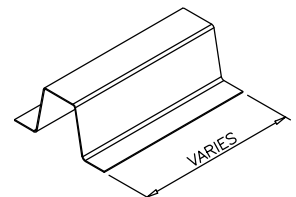
MATERIAL	WEIGHT
14 GA.	1.33#
16 GA.	1.10#
18 GA.	0.89#



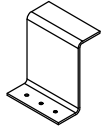
2" HAT CHANNEL



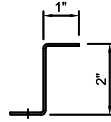
MATERIAL	WEIGHT
14 GA.	2.09#
16 GA.	1.73#
18 GA.	1.40#



Frame Out Channel (used on Thermal Systems), Custom Angle and Custom Light Gauge are available on request.

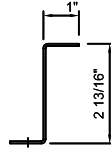


2" THERMAL ZEE
x 4 13/16" LONG



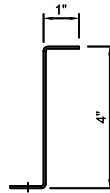
MATERIAL	PART NO.	WEIGHT
12 GA.	556587	0.56#
13 GA.	556586	0.49#
14 GA.	556585	0.40#
16 GA.	556584	0.33#
18 GA.	556583	0.27#

2 13/16" THERMAL ZEE
x 4 13/16" LONG



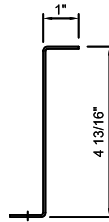
MATERIAL	PART NO.	WEIGHT
12 GA.	556562	0.69#
13 GA.	556561	0.59#
14 GA.	556560	0.49#
16 GA.	556559	0.40#
18 GA.	556558	0.33#

4" THERMAL ZEE
x 4 13/16" LONG



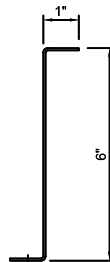
MATERIAL	PART NO.	WEIGHT
12 GA.	556662	0.86#
13 GA.	556661	0.75#
14 GA.	556660	0.61#
16 GA.	556659	0.51#
18 GA.	556658	0.41#

4 13/16" THERMAL ZEE
x 4 13/16" LONG



MATERIAL	PART NO.	WEIGHT
12 GA.	556567	0.99#
13 GA.	556566	0.85#
14 GA.	556565	0.70#
16 GA.	556564	0.58#
18 GA.	556563	0.47#

6" THERMAL ZEE
x 4 13/16" LONG

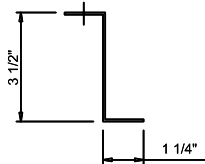
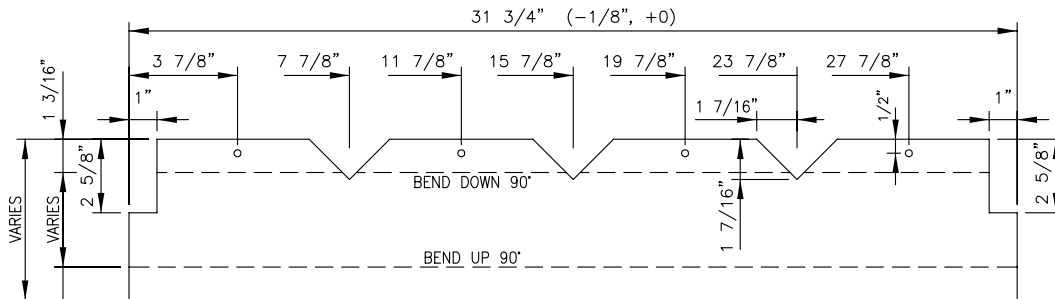


MATERIAL	PART NO.	WEIGHT
12 GA.	556667	1.16#
13 GA.	556666	1.01#
14 GA.	556665	0.82#
16 GA.	556664	0.68#
18 GA.	556663	0.55#

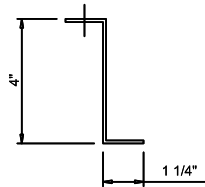
6 13/16" THERMAL ZEE
x 4 13/16" LONG



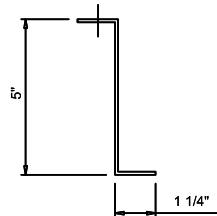
MATERIAL	PART NO.	WEIGHT
12 GA.	556582	1.29#
13 GA.	556581	1.11#
14 GA.	556580	0.91#
16 GA.	556579	0.76#
18 GA.	556578	0.61#



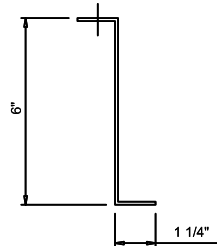
MATERIAL	PART NO.	WEIGHT
14 GA.	556170	4.03#
16 GA.	556171	3.35#
18 GA.	556172	2.71#



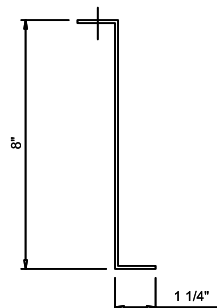
MATERIAL	PART NO.	WEIGHT
14 GA.	556173	4.39#
16 GA.	556174	3.64#
18 GA.	556175	2.95#



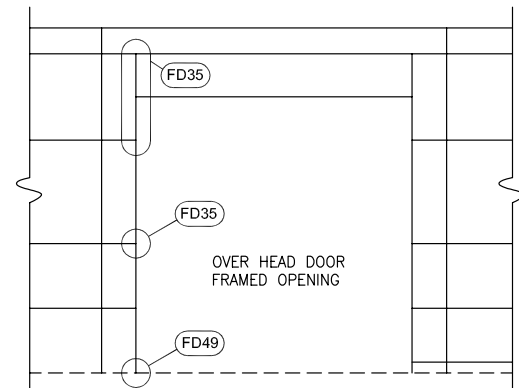
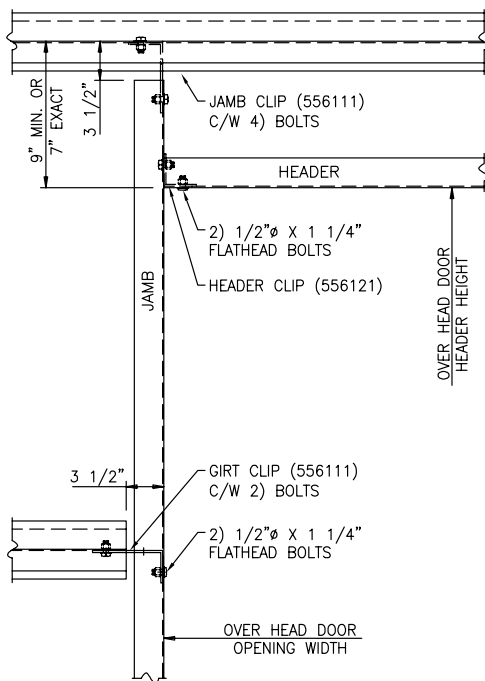
MATERIAL	PART NO.	WEIGHT
14 GA.	556176	5.09#
16 GA.	556177	4.22#
18 GA.	556178	3.42#



MATERIAL	PART NO.	WEIGHT
14 GA.	556179	5.79#
16 GA.	556180	4.80#
18 GA.	556181	3.89#



MATERIAL	PART NO.	WEIGHT
14 GA.	556196	7.19#
16 GA.	556197	5.96#
18 GA.	556198	4.83#

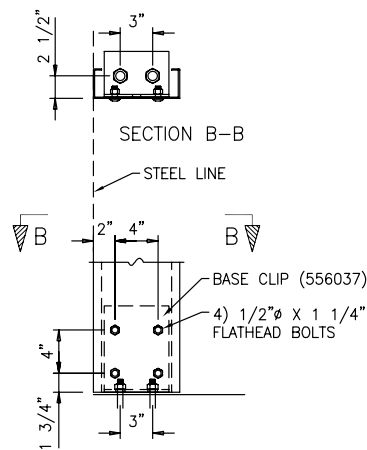
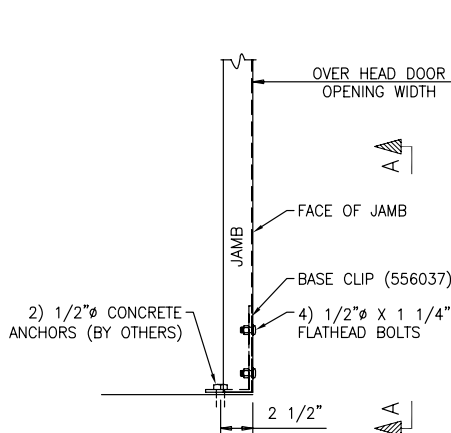


WALL ELEVATION

ALL BOLTS 1/2"Ø x 1 1/2" HEX HEAD (UNLESS NOTED)

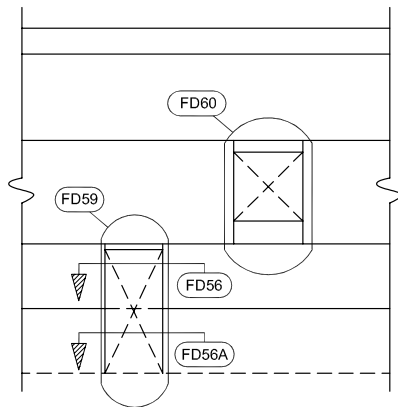
OVERHEAD DOOR JAMB TO
FRAMED OPENING GIRT & HEADER

FD35

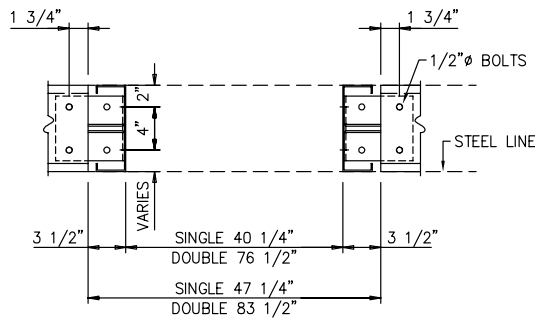


BASE OF OVERHEAD DOOR JAMB

FD49

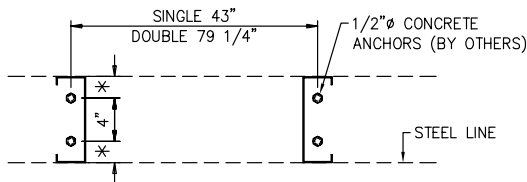


WALL ELEVATION



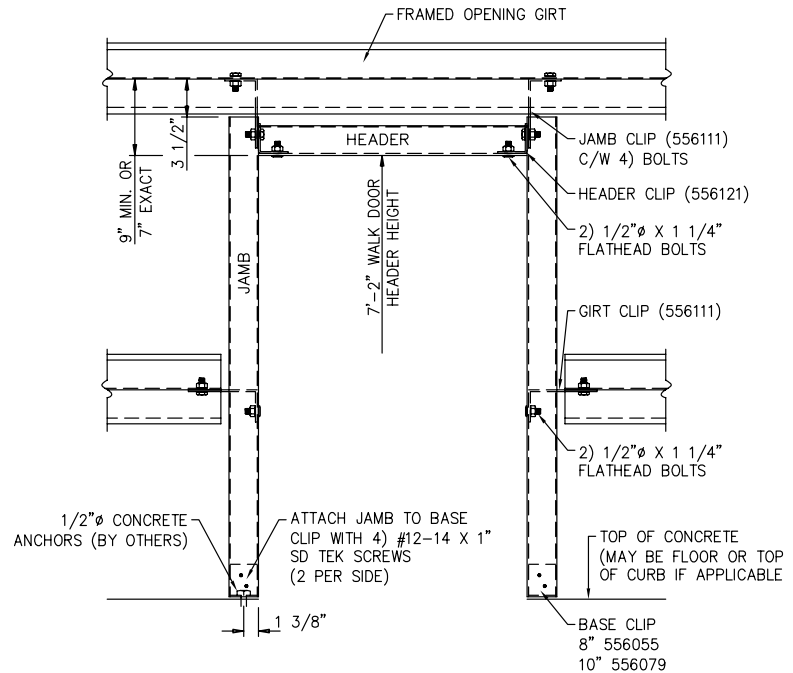
ALL BOLTS 1/2"Ø x 1 1/2" HEX HEAD (UNLESS NOTED)

WALK DOOR JAMB to GIRT DIMENSIONS FD56



WALK DOOR BASE FD56A

* 2" FOR 8" JAMB
3" FOR 10" JAMB

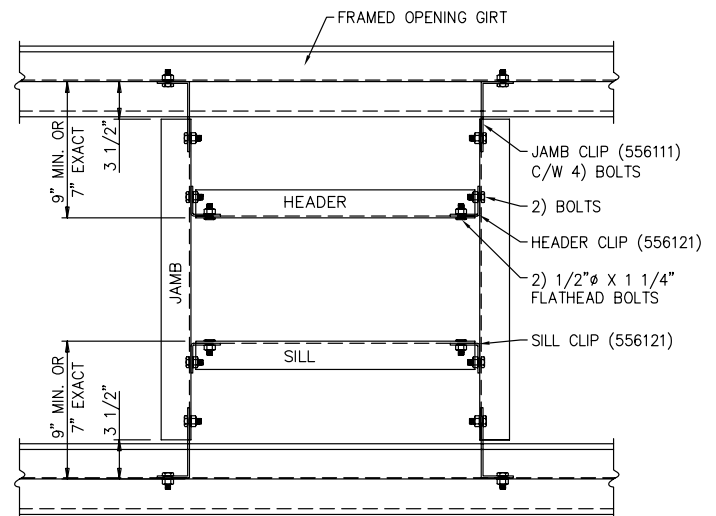


ALL BOLTS 1/2"Ø x 1 1/2" HEX HEAD (UNLESS NOTED)

WALK DOOR INSTALLATIONS

3'-0" x 7'-0" SINGLE WALK DOOR
6'-0" x 7'-0" DOUBLE WALK DOOR

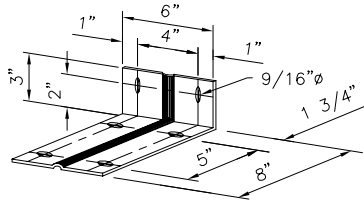
FD59



ALL BOLTS 1/2"Ø x 1 1/2" HEX HEAD (UNLESS NOTED)

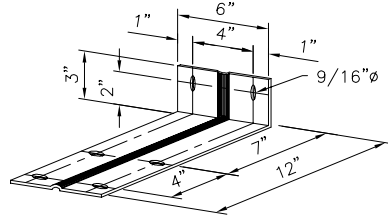
WINDOW and MISCELLANEOUS OPENING INSTALLATIONS FD60

556007



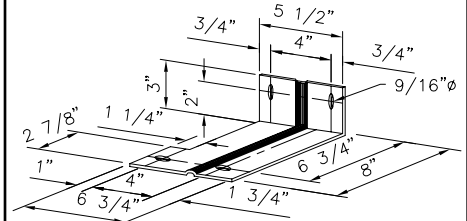
COLUMN TO GIRT CLIP (8 Ga)

556045



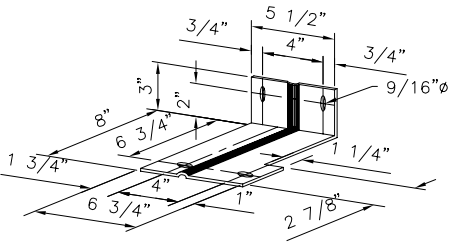
EXPANDABLE ENDWALL
13" CLIP (8 Ga)

556053



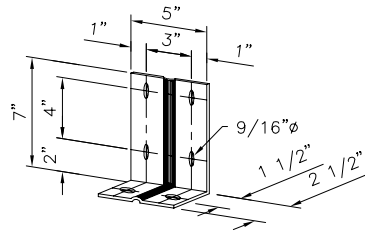
LEFTHAND GIRT CLIP (8 Ga)

556054



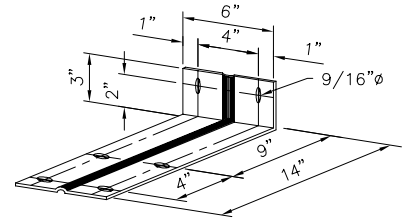
RIGHTHAND GIRT CLIP (8 Ga)

556056



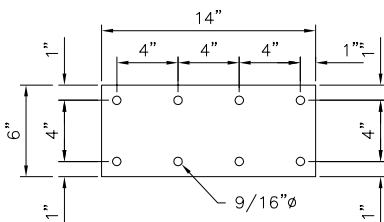
8" PURLIN/GIRT CLIP (8 Ga)

556145



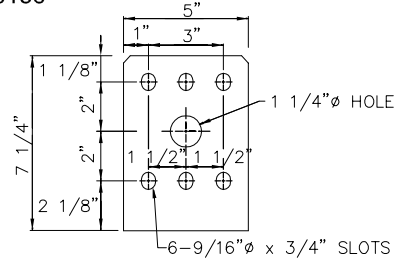
EXPANDABLE ENDWALL
15" CLIP (8 Ga)

556147



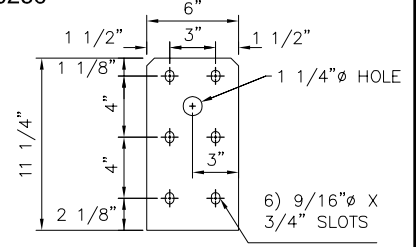
GIRT CONNECTION PLATE (8 GA.)

556156



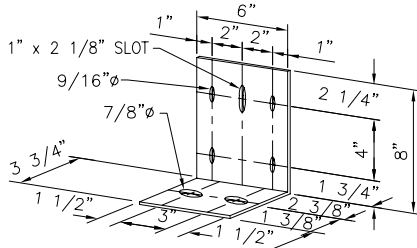
WELD ON 8" & 10" PURLIN/GIRT CLIP
(1/4" PLATE) BLACK STEEL

556256



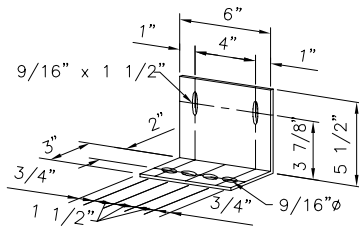
WELD ON 11 1/2", 12" & 14" PURLIN/GIRT CLIP
(5/16" PLATE) BLACK STEEL

556037



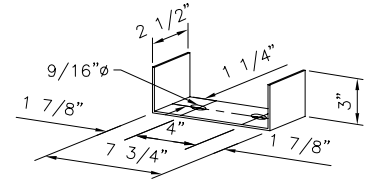
DOOR BASE CLIP (3/8")

556052



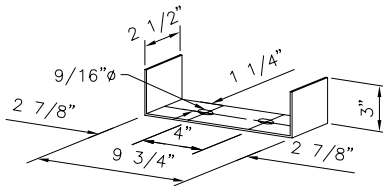
VERTICAL EAVE CLIP (8Ga.)

556055



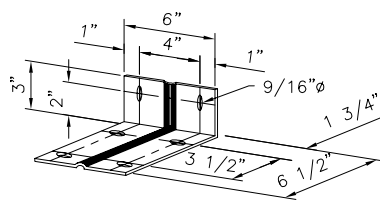
8" JAMB BASE CLIP (10 Ga)

556079



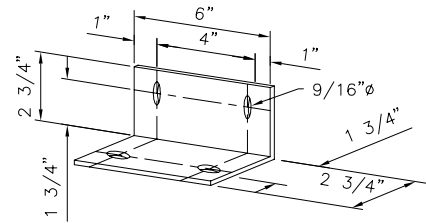
10" JAMB BASE CLIP (10 Ga)

556111



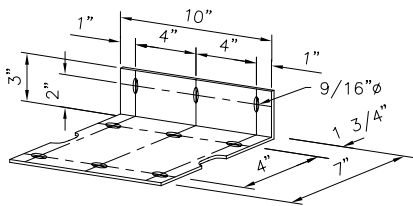
JAMB CLIP (8Ga)
(8" & 10" CHANNELS) (1/4")

556121



HEADER CLIP (8Ga)
(8" & 10" CHANNELS) (1/4")

556221



JAMB/HEADER CLIP
(11 1/2", 12" & 14" CHANNELS) (1/4")