



182 GRANITE STREET, SUITE 101, CORONA, CA 92879

PHONE: (951)278-1830 FAX: (951)278-8444 www.canfab.com canfab@canfab.com

FOR: GROUP D

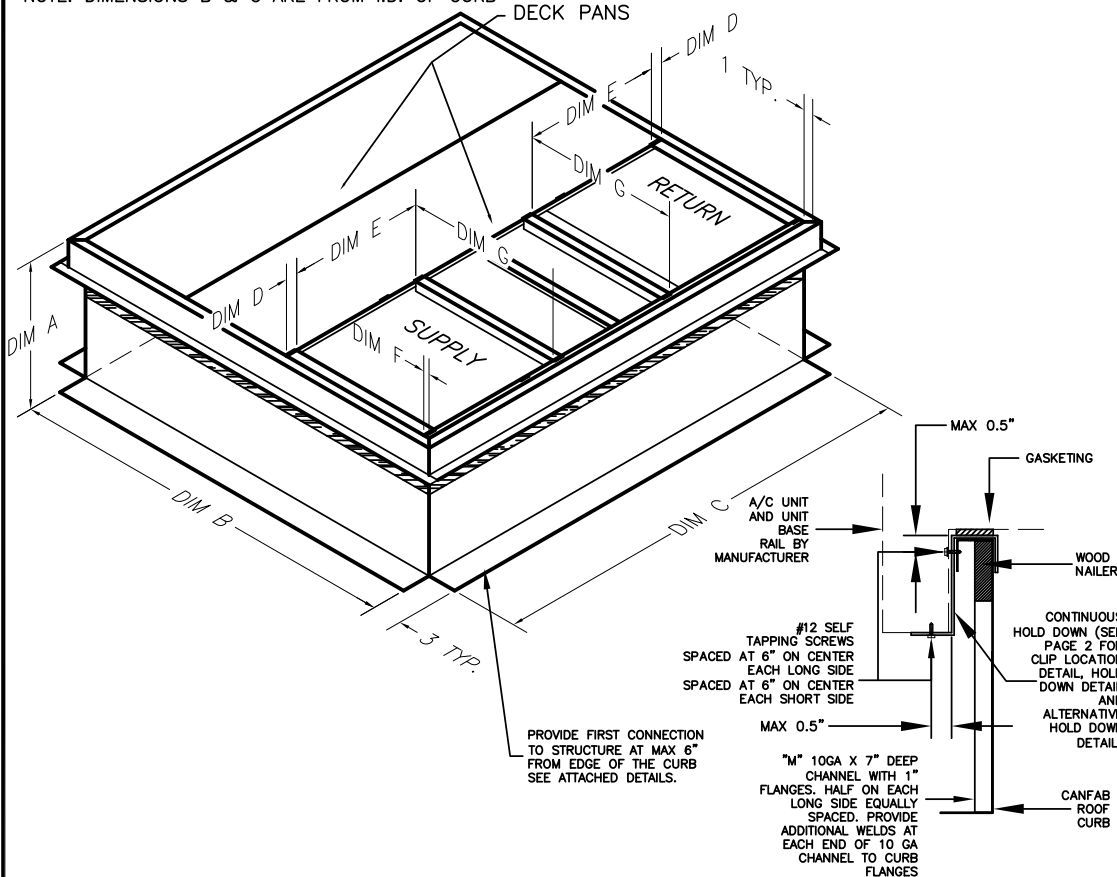
CARRIER 3 - 5 TONS

48/50 ES, EZ, 48/50VL-A 42-60, 48/50 VT-A, VG,
48/50VR, XL, XT-A 36-60

PART NO: 1003A-CB

DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H
VARIES MAX 36" SEE TABLE 3	40.375"	44.0625"	1.1875"	14"	.625"	16"	N/A

****NOTE: DIMENSIONS B & C ARE FROM I.D. OF CURB****



ALL WORK SHALL CONFORM TO THE STANDARD OF 2018 INTERNATIONAL BUILDING CODE & 2019 CALIFORNIA BUILDING CODE.

SEISMIC DESIGN CRITERIA

-SDS = 1.5 ap = 2.5
-I = 1.5 Rp = 6.0

WIND DESIGN CRITERIA

-MAX 60 FT TALL BUILDING
-EXPOSURE C
-175 MPH, 3 SECOND GUST WIND

NOTE:

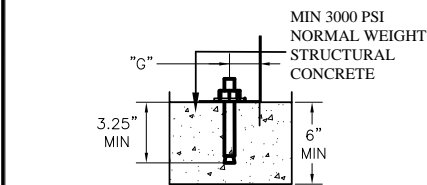
INSTALLER TO VERIFY WITH A LICENSED STRUCTURAL ENGINEER IN THE CORRESPONDING STATE THE ADEQUACY OF THE STRUCTURE FOR LOADS IMPOSED BY THE UNIT AND THE CURB IN ADDITION TO ALL OTHER LOADS.
-INSTALLER TO VERIFY WITH A LICENSED STRUCTURAL ENGINEER IN THE CORRESPONDING STATE THAT THE SEISMIC AND WIND DESIGN CRITERIA NOTED ON THIS DRAWING ARE ADEQUATE FOR THE SITE SPECIFIC VALUES. OTHERWISE, CONTACT CANNON FABRICATION FOR A SITE SPECIFIC ANALYSIS AND DRAWINGS.

CURB CONSTRUCTION

- 1) WELDED
 - 2) BOLTED
 - 3) FINGERLOCK
- ALL WELDING CONSTRUCTION CERTIFIED TO ANSI/AWS D1.3 STRUCTURAL WELDING CODE-SHEET METAL
-SELF-DRILLING SCREW SHALL MEET ASTM C1513 SPECIFICATION AND INSTALLED PER AISI-S100
-NO GAP IS ALLOWED BETWEEN TWO METAL SHEET SURFACES WHERE SHEET METAL SCREW IS CONNECTED

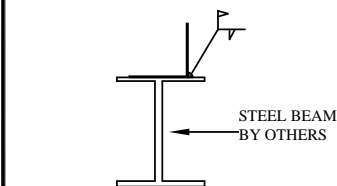
CURB AND UNIT INFORMATION

- "A" GAUGE GALVANIZED STEEL CURB
-SEE TABLE 3 FOR ALLOWABLE CURB AND UNIT DIMENSIONAL AND WEIGHT
-SEE TABLE 4 FOR TABULATED CURB AND ANCHORAGE INFORMATION PER VARYING CURB HEIGHT
-ALPHA DESIGNATIONS "A" THRU "M", CAN BE FOUND ON TABLE 4, PAGE 3



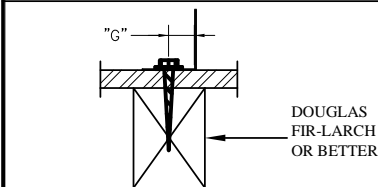
ATTACHMENT TO STRUCTURAL CONCRETE

"B" 1/2" HILTI KWIK BOLT TZ SS 304, HALF EACH LONG SIDE.
"C" 1/2" HILTI KWIK BOLT TZ SS 304, HALF EACH SHORT SIDE.
NOTE:
-MIN 5" AWAY FROM THE NEAREST CONCRETE EDGE (INSTALL PER ICC-ES ESR-1917).
-STRUCTURALLY ACCEPTABLE TO SUBSTITUTE HILTI KBTZ STAINLESS STEEL BOLTS WITH HILTI KBTZ CARBON STEEL BOLTS ONLY IF ALL THE BOLTS ARE COMPLETELY WATERPROOFED AND PROTECTED AGAINST THE WEATHER.
-BOLTS SHALL BE EQUALLY SPACED



ATTACHMENT TO STRUCTURAL STEEL

1/8" FILLET WELD, 2" LONG, "D" ON CENTER.
NOTE:
-PROVIDE MIN 2 CONNECTIONS WHERE THE CURB SIDE IS SHORTER THAN THE WELD SPACING.
-PROVIDE WELDS ON ALL SIDES



ATTACHMENT TO WOOD

"E" 3/8"x4" LAG SCREWS, HALF EACH LONG SIDE.
"F" 3/8"x4" LAG SCREWS, HALF EACH SHORT SIDE.
NOTE:
-SCREWS SHALL BE EQUALLY SPACED.

STRUCTURAL REVIEW BY:

MARTIN & associates
JOHN A. MARTIN AND ASSOCIATES
Structural Engineers
950 South Grand Ave., 4th Floor
Los Angeles, California 90015
Phone (213) 483 6490
Fax (213) 483 3084
Job No.: 13001



12/14/2018

PROJECT: IBC 2018/ CBC 2019 UPDATE

DATE: 12.6.18

ENGINEER: LD

DISTRIBUTOR:

DRAWING NUMBER: GROUP_D.DWG

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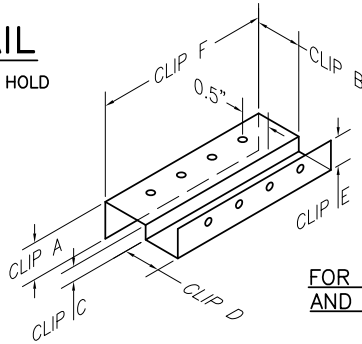
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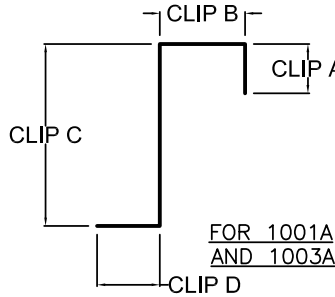
PART NO: SEE BELOW

HOLD DOWN DETAIL

NOTE: SEE TABLE 1 FOR DESIGNATED HOLD DOWN CLIP PER CURB



FOR 6047
AND 6049



FOR 1001A
AND 1003A

TABLE 1 HOLD DOWN CLIP PER CURB

CURB	CLIP	GUAGE	CLIP A [IN]	CLIP B [IN]	CLIP C [IN]	CLIP D [IN]	CLIP E [IN]	CLIP F [IN]
1001A	N/A	14 GA	.75	1.0625	2.75	.875	N/A	SEE PAGE 1
1003A	N/A	14 GA	.75	1.0625	2.75	.875	N/A	SEE PAGE 1
6047	6905-SHD6-14	12 GA	1.0	1.625	.5	.8125	.75	9.0
6049	6905-SHD6-14	12 GA	1.0	1.625	.5	.8125	.75	9.0

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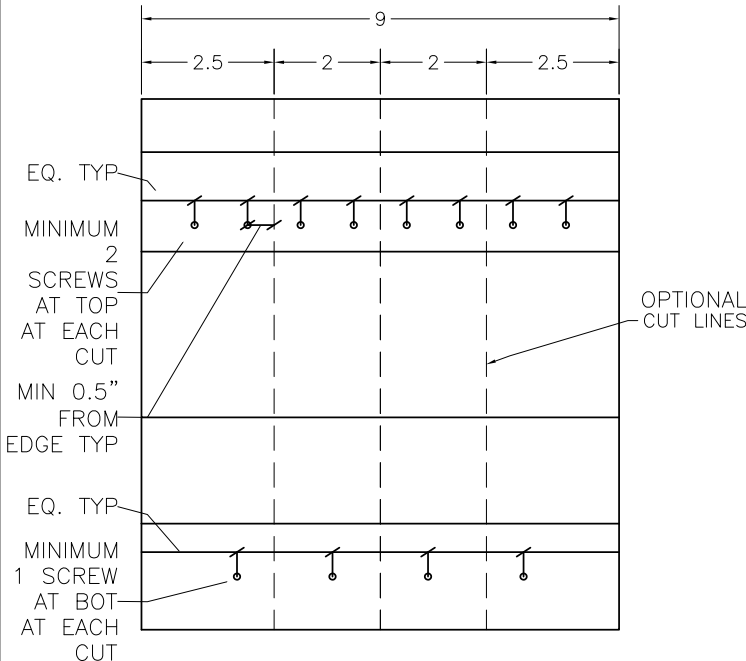


12/14/2018

ALTERNATIVE HOLD DOWN DETAIL

NOTE:
APPLICABLE ONLY FOR 9" LONG HOLD DOWN WITH (8) SCREWS AT TOP AND (4) SCREWS AT BOT EQUALLY SPACED

1. INFORMATION SHOWN ON THE STAMPED CANFAB CURB DRAWING IS THE MINIMUM REQUIREMENTS FOR THE CURB CONSTRUCTION AND INSTALLATION. NO STRUCTURAL OBJECTION TO THE USE OF LARGER SIZE SCREWS AND THICKER GAUGE SHEET METAL THAN THE INFORMATION SHOWN ON THE STAMPED CANFAB CURB DRAWING.
2. NO STRUCTURAL OBJECTION TO SHIFTING THE ATTACHMENT CLIPS ALONG THE CURB. FIRST AND LAST CLIP IN THE SERIES OF CLIPS SHALL BE LOCATED PER CLIP LOCATION DETAIL PER STAMPED CANFAB CURB DRAWING. DISTANCE SHIFTED SHALL NOT BE LARGER THAN THE LENGTH OF THE CLIP.
3. NO STRUCTURAL OBJECTION TO CUTTING THE ATTACHMENT CLIPS PER REQUIREMENTS AS SHOWN ON BELOW SKETCH.



CLIP LOCATION DETAIL

NOTE:
SEE TABLE 2 FOR CLIP LOCATION

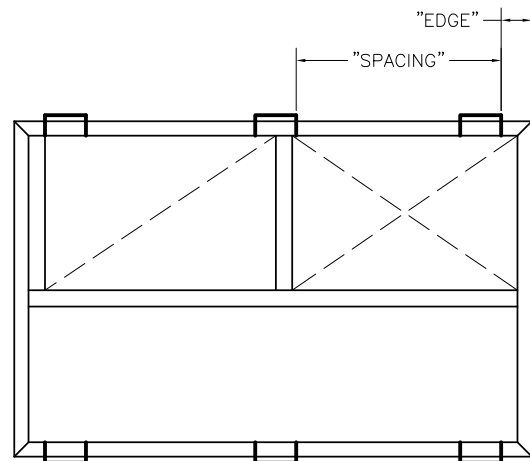


TABLE 2 CLIP LOCATION

CURB	EDGE [IN]	SPACING [IN]
1001A	N/A	N/A
1003A	N/A	N/A
6047	7.75	15.6875
6049	7.75	20.5625

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FOR: GROUP D

PART NO: SEE BELOW

TABLE 3 ALLOWABLE CURB AND UNIT DIMENSION AND WEIGHT

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Structural Engineers
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RELATED CURBS	LCURB [IN]	WCURB [IN]	HCURB [IN]	WTCURB [LBS]	LUNIT [IN]	WUNIT [IN]	HUNIT [IN]	WTUNIT [LBS]	CG LONG [IN]	CG SHORT [IN]	CG HEIGHT [IN]
1001A	SEE PAGE 1	SEE PAGE 1	MIN 8	MIN 70	48.28	32.72	42.98	MAX 400	22.6	15.8	HUNIT/2
			11	80							
			14	90							
			18	104							
			24	187							
			MAX 36	MAX 253							
1003A	SEE PAGE 1	SEE PAGE 1	MIN 8	MIN 84	48.28	44.22	46.98	MAX 600	25.5	15.5	HUNIT/2
			11	95							
			14	107							
			18	122							
			24	217							
			MAX 36	MAX 294							
6047	SEE PAGE 1	SEE PAGE 1	MIN 8	MIN 55	50.625	43.125	37.375	MAX 400	20	15.8	HUNIT/2
			11	66							
			14	77							
			18	92							
			24	185							
			MAX 36	MAX 259							
6049	SEE PAGE 1	SEE PAGE 1	MIN 8	MIN 66	60.313	46.063	41.375	MAX 600	25	16.3	HUNIT/2
			11	79							
			14	92							
			18	109							
			24	216							
			MAX 36	MAX 300							

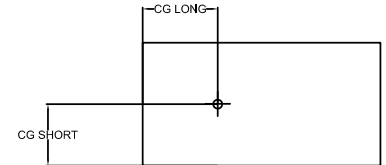


TABLE 4 TABULATED CURB AND ANCHORAGE INFORMATION PER VARYING HEIGHT

		0 < H ≤ 18"	18" < H ≤ 22"	22" < H ≤ 30"	30" < H ≤ 36"
A	CURB THICKNESS	16 GA	14 GA	12 GA	12 GA
B	EXP. ANCHOR	6	6	6	8
C	EXP. ANCHOR	4	4	4	4
D	WELD	36"	36"	36"	36"
E	SCREWS	12	12	14	14
F	SCREWS	10	10	10	10
G	DISTANCE	MAX 0.75"	MAX 0.75"	MAX 0.75"	MAX 0.75"
H	NO. OF CLIPS	6	6	6	6
I	CLIP SMS	(4) #12	(4) #12	(4) #12	(4) #12
J	CLIP SMS	(8) #12	(8) #12	(8) #12	(8) #12
K	ISO RAIL	N/A	N/A	N/A	N/A
L	NO. OF ISOLATORS	N/A	N/A	N/A	N/A
M	NO. OF STIFFENERS	N/A	N/A	N/A	(6)

NOTE:
SEE PAGE 1 FOR CLIP SMS FOR CONTINUOUS HOLD DOWN ON 1001A AND 1003A

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PAGE 3 OF 3



CANNON FABRICATION INC

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FOR:

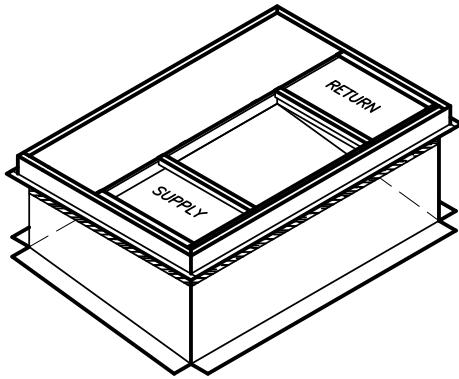
PART NO:

PITCHED ROOF CURB

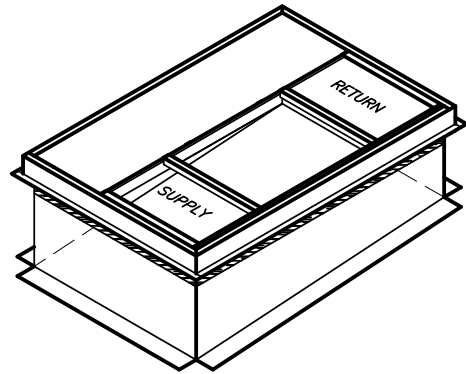
DRAWING MUST ACCOMPANY ALL PITCHED CURB ORDERS

APPLIES TO STANDARD AND ISOLATION CURBS

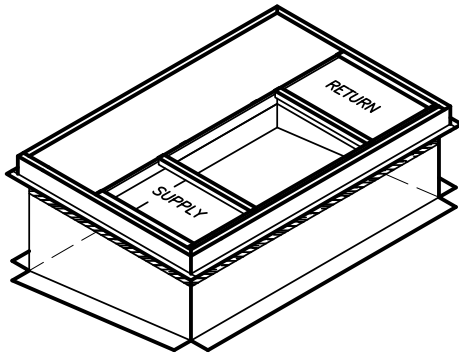
(A)



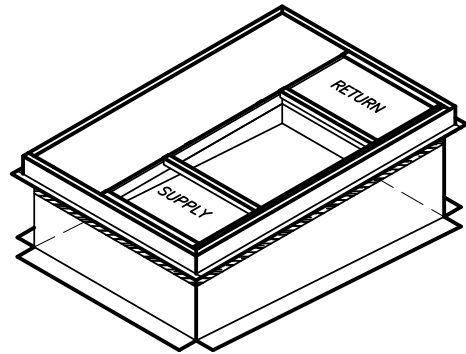
(B)



(C)



(D)



_____ ON 12"

(CIRCLE A, B, C OR D TO SPECIFY DUCT PLACEMENT)

PROJECT:

DATE: 01.08.19

ENGINEER:

DISTRIBUTOR:

DRAWING NUMBER: