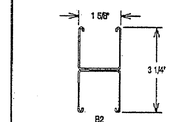
B2 - TOTAL UNIFORM LOAD IN POUNDS WITH BIAXIAL BENDING

TABULATED LOADS ARE TOTAL VERTICAL LOADS IN POUNDS.
LONGITUDINAL BRACE SPACING IS A MULTIPLIER OF THE VERTICAL HANGER SPACING.
STRUT SPAN IS DEFINED AS THE DISTANCE BETWEEN SAME-TRAPEZE LONGITUDINAL BRACES.



G = 0.20

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.40

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.60

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.80

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 1.00

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

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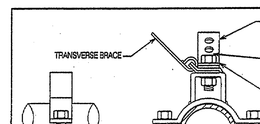
GENERAL APPLICATION NOTES - CONTINUED

20. Bracing tables included in this *Manual* are based on a nominal brace angle of 45 degrees from horizontal +/- 2.5 degrees. Brace angles less than 45 degrees are acceptable without modification. Brace angles greater than 47.5 degrees and less than 60 degrees from horizontal are acceptable; however, the Tabulated Brace Spacing and anchorage loads will require modification by ISAT Technical Support.
21. Bracing may be installed with up to +/- 7-½ degrees variation from "true" Transverse or "true" Longitudinal alignment without the need for additional engineering. Refer to Installation details.
22. Brace Reaction (P) per the Engineered Bracing Tables was calculated based on a brace arm inclination of 45 degrees. To determine the horizontal or vertical component, divide Brace Reaction by 1.414. For purposes of this *Manual*, "point load" equals Brace Reaction divided by 1.414. Where other brace angles are used, the vertical and horizontal force components may be calculated using the principles of statics.
23. Minimum Rod Diameter sizes for seismic brace locations are shown within the ISAT "C" Series Engineered Bracing Tables. For locations utilizing cable brace arms, the rod size is based on dead load plus a vertical seismic acceleration force equal to 0.2 S_{DS} Wp in accordance with ASCE 7 05, Sections 12.4.2.2 and 13.3.1. Where rigid brace arms are to be utilized the vertical component of the seismic brace reaction has also been added to the rod load. Rod strength values are listed within the "H" series pages.
24. Compare ISAT minimum rod diameters to the local trade specific requirements and to the project specifications. Use the largest required rod diameter.
25. Un-braced suspended utilities are to have a 6" minimum clearance to ceiling, support wires.
26. Bolt connection strength and strut-nut slippage design values are based on the Manufacturer's recommended bolt torque. If these are not given use the values listed below:

3/8" Diameter Bolt	19 ft-lbs
1/2" Diameter Bolt	50 ft-lbs
5/8" Diameter Bolt	100 ft-lbs

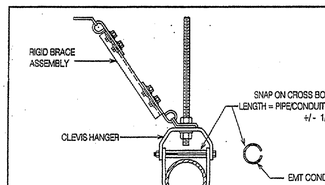
For RC-1 and RC-2 Rod Stiffener tightening requirements, refer to Page G1.



Pipe Diameter Inch	Part Number	Top Mounting Bolt Diameter Inch	Alternate Vertical Support Rod Dia. Inch
1	LRD1	3/8	3/8
1 1/4	LRD1	3/8	3/8
1-1/2	LRD1	3/8	3/8
2	LRD2	3/8	3/8
2-1/2	LRD2	1/2	1/2
3	LRD2	1/2	1/2
4	LRD4	5/8	5/8
6	LRD6	5/8	5/8
8	LRD8	5/8	7/8
10	LRD10	5/8	7/8
12	LRD12	5/8	7/8
14	LRD14	5/8	1
16	LRD16	5/8	1

LONGITUDINAL RESTRAINT DEVICE (LRD)

WHEN USED WITH COPPER PIPE, TUBING OR FRP PIPE INSTALL SEPARATING BARRIER BETWEEN PIPE AND LRD.



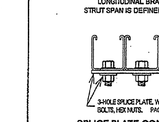
Sleeve = EMT Conduit

Pipe Diameter Inch	Cross Bolt Diameter Inch	Sleeve Diameter Inch
1 1/2	1/4	1/2
2	1/4	1/2
2-1/2	3/8	1/2
3	3/8	1/2
4	3/8	1/2
6	1/2	3/4
8	5/8	3/4
10	3/4	7/8
12	3/4	7/8
14	7/8	1
16	1	1 1/8

CROSS BOLT SLEEVE CLEVIS HANGER REINFORCEMENT

TRIPLE B1 x 12 GA w/ CONNECTOR WITH BIAXIAL BENDING

TABULATED LOADS ARE TOTAL VERTICAL LOADS IN POUNDS.
LONGITUDINAL BRACE SPACING IS A MULTIPLIER OF THE VERTICAL HANGER SPACING.
STRUT SPAN IS DEFINED AS THE DISTANCE BETWEEN SAME-TRAPEZE LONGITUDINAL BRACES.



SPLICE PLATE CONNECTION

G = 0.20

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.40

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.60

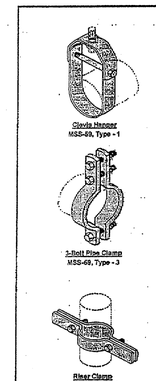
STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 0.80

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000

G = 1.00

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	1000	1000	1000	1000
24	1000	1000	1000	1000
36	1000	1000	1000	1000
48	1000	1000	1000	1000
60	1000	1000	1000	1000
72	1000	1000	1000	1000
84	1000	1000	1000	1000
96	1000	1000	1000	1000



Miscellaneous specifications
MSS-58, MSS-69 & Fast Grip A-A-1192A
"TYPE" As Shown

WRNS STUDIO LLP
501 SECOND STREET
4TH FLOOR, STE. 402
SAN FRANCISCO
CALIFORNIA 94107
415.489.2224 TEL
415.358.9100 FAX
WWW.WRNSSTUDIO.COM

Steinberg Architects

Hensel Phelps Construction Co.

CMI — CHESTERFIELD MECHANICAL, INC.
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MENLO PARK, CA 94025
TEL (650) 321-7691
FAX (650) 321-1795

These drawings and specifications have been prepared by CMI for their exclusive use in accord with Sec. 6737.4 of the Professional Engineers Act of the State of California.

NO.	ISSUES/REVISIONS	DATE
	100% SCHEMATIC DESIGN	04/28/08
	50 % DESIGN DEVELOPMENT	05/15/08
	100% DESIGN DEVELOPMENT	07/28/08
	INCREMENT 2 50% REVIEW	10/10/08
	DSA INCREMENT 2 STRUCTURE & GFRC PANELS	11/11/08
7	DSA INCREMENT #3 50% REVIEW	11/11/08
9	DSA INCREMENT #3 90% REVIEW	12/12/08
10	DSA INCREMENT #3 TENANT IMPROVEMENT AND ROOFING SYSTEM	02/25/09
12	HPCC REVIEW	04/20/09
14	DSA INCREMENT #3 BACKCHECK	05/12/09
	AS BUILTS	12/15/10

DIVISION OF THE STATE ARCHITECT
APPL # 01-110117
FILE # 41-C1
AC _____ FLS _____
SSS _____ DATE _____
IDENTIFICATION STAMP

SKYLINE COLLEGE

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CIP2 DESIGN-BUILD PROJECT BUILDING 4 INCREMENT 3

KEYPLAN

CMI PROJECT NO.: 28212 — DRAWN BY:
DATE: 04/28/08 — CHECKED BY:
SCALE: 0 4' 8' 12' 16' 24' 32'

SHEET TITLE:

SEISMIC DETAILS

SHEET NO:

M-501

STRUT CHANNEL MAXIMUM TRAPEZE VERTICAL LOADS [1]

"4X" SINGLE CHANNEL (1 5/8" X 1 5/8" X 12 GA) — "4X" BACK TO BACK CHANNEL [2] (1 5/8" X 1 5/16" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	1,560	1,560	0.01
24	1,560	1,560	0.02
36	1,560	1,560	0.04
48	1,560	1,560	0.07
60	1,560	1,560	0.11
72	1,560	1,560	0.16

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	3,120	3,120	0.01
24	3,120	3,120	0.02
36	3,120	3,120	0.04
48	3,120	3,120	0.07
60	3,120	3,120	0.11
72	3,120	3,120	0.16

"5X" SINGLE CHANNEL (1 5/8" X 3 1/4" X 12 GA) — "5X" BACK TO BACK CHANNEL [2] (1 5/8" X 3 1/4" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	5,760	5,760	0.01
24	5,760	5,760	0.02
36	5,760	5,760	0.04
48	5,760	5,760	0.07
60	5,760	5,760	0.11
72	5,760	5,760	0.16

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	6,240	6,240	0.01
24	6,240	6,240	0.02
36	6,240	6,240	0.04
48	6,240	6,240	0.07
60	6,240	6,240	0.11
72	6,240	6,240	0.16

"6X" SINGLE CHANNEL (1 5/8" X 3 5/8" X 12 GA) — "6X" BACK TO BACK CHANNEL [2] (1 5/8" X 3 5/8" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	8,000	8,000	0.01
24	8,000	8,000	0.02
36	8,000	8,000	0.04
48	8,000	8,000	0.07
60	8,000	8,000	0.11
72	8,000	8,000	0.16

"8X" SINGLE CHANNEL (1 5/8" X 1 5/8" X 12 GA) — "8X" BACK TO BACK CHANNEL [2] (1 5/8" X 1 5/8" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	1,560	1,560	0.01
24	1,560	1,560	0.02
36	1,560	1,560	0.04
48	1,560	1,560	0.07
60	1,560	1,560	0.11
72	1,560	1,560	0.16

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	3,120	3,120	0.01
24	3,120	3,120	0.02
36	3,120	3,120	0.04
48	3,120	3,120	0.07
60	3,120	3,120	0.11
72	3,120	3,120	0.16

"10X" SINGLE CHANNEL (1 5/8" X 5 1/2" X 12 GA) — "10X" BACK TO BACK CHANNEL [2] (1 5/8" X 5 1/2" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	9,760	9,760	0.01
24	9,760	9,760	0.02
36	9,760	9,760	0.04
48	9,760	9,760	0.07
60	9,760	9,760	0.11
72	9,760	9,760	0.16

"12X" SINGLE CHANNEL (1 5/8" X 7 1/4" X 12 GA) — "12X" BACK TO BACK CHANNEL [2] (1 5/8" X 7 1/4" X 12 GA)

MAXIMUM SPAN Inch	MAXIMUM TOTAL UNIFORM LOAD SOLID CHANNEL Lbs	PUNCHED (SHORT SLOTS) HOLES IN CHANNEL Lbs	DEFLECTION Inch
18	12,800	12,800	0.01
24	12,800	12,800	0.02
36	12,800	12,800	0.04
48	12,800	12,800	0.07
60	12,800	12,800	0.11
72	12,800	12,800	0.16

1. ALLOWANCE INCLUDED FOR CONCURRENT VERTICAL SEISMIC FORCE 0.2 S_{DS} Wp PER ASCE 7-05 SEC. 9.5.2.7 AND ASCE 7-05, SEC. 13.3.
2. FOR CONCENTRATED LOAD AT CENTER OF SPAN, DIVIDE UNIFORM LOAD BY 2 AND MULTIPLY DEFLECTION BY 0.8.
3. FACTORY SHOP WELD.
4. REFER TO "D" SERIES PAGES FOR VERTICAL SUPPORT CONNECTIONS.
5. STRUT SPAN IS THE DISTANCE BETWEEN THE VERTICAL HANGER RODS.

STRUT CHANNEL TRAPEZE MAXIMUM VERTICAL LOADS

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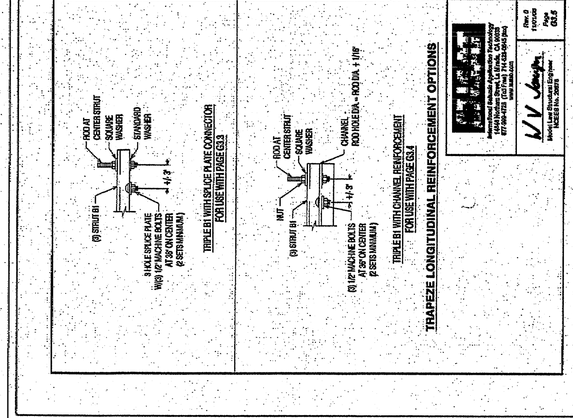

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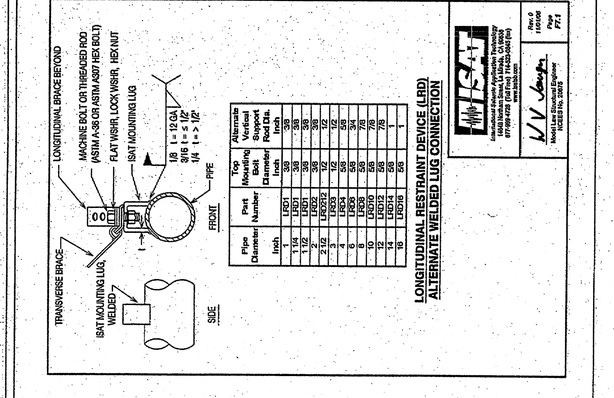

TYPICAL VIBRATION ISOLATION HANGER STYLES
CONSULT PROJECT SPECIFICATIONS FOR TYPE, SIZE AND DEFLECTION REQUIREMENTS
ISOLATOR BRAND & STYLE NOT PART OF THIS SYSTEM DESIGN

SPRING HANGER INSTALLATION GUIDELINES

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STRUCTURAL ANGLE [1]

L3x3x1/4

MAXIMUM SPAN INCH	MAXIMUM TOTAL UNIFORM LOAD MAX. TOTAL UNIFORM LOAD LBS	DEFLECTION INCH
18	4,620	0.01
24	3,460	0.02
36	2,310	0.04
48	1,730	0.07
60	1,380	0.11
72	1,150	0.16

STRUCTURAL TUBE [1]

HSS 3x3x1/4

MAXIMUM SPAN INCH	MAXIMUM TOTAL UNIFORM LOAD MAX. TOTAL UNIFORM LOAD LBS	DEFLECTION INCH
48	7,700	0.13
60	6,160	0.20
72	5,160	0.29
84	4,520	0.39
96	3,870	0.51
108	3,440	0.64
120	3,090	0.79

1. ALLOWANCE INCLUDED FOR CONCURRENT VERTICAL SEISMIC FORCE 0.2 S_{DS} Wp PER ASCE 7-05 SEC. 9.5.2.7 AND ASCE 7-05 SEC. 13.3.
2. FOR CONCENTRATED LOAD AT CENTER OF SPAN, DIVIDE UNIFORM LOAD BY 2 AND MULTIPLY DEFLECTION BY 0.8.
3. REFER TO "D" SERIES PAGES FOR VERTICAL SUPPORT CONNECTIONS.

STRUCTURAL STEEL TRAPEZE MAXIMUM VERTICAL LOADS

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Pipe Diameter Inch	Part Number	Top Mounting Bolt Diameter Inch	Alternate Vertical Support Rod Dia. Inch
1	LRD1	3/8	3/8
1 1/4	LRD1	3/8	3/8
1-1/2	LRD1	3/8	3/8
2	LRD2	3/8	3/8
2-1/2	LRD2	1/2	1/2
3	LRD2	1/2	1/2
4	LRD4	5/8	5/8
6	LRD6	5/8	5/8
8	LRD8	5/8	7/8
10	LRD10	5/8	7/8
12	LRD12	5/8	7/8
14	LRD14	5/8	1
16	LRD16	5/8	1

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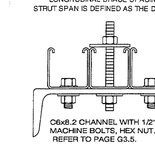
TRIPLE CHANNEL 1 5/8" x 1 5/8" x 12 Ga w/ C6x8.2 WITH BIAXIAL BENDING

TABULATED LOADS ARE TOTAL VERTICAL LOADS IN POUNDS.
LONGITUDINAL BRACE SPACING IS A MULTIPLIER OF THE VERTICAL HANGER SPACING.
STRUT SPAN IS DEFINED AS THE DISTANCE BETWEEN SAME-TRAPEZE LONGITUDINAL BRACES.



G = 0.20

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	5000	5000	5000	5000
24	4000	4000	4000	4000
36	3000	3000	3000	3000
48	3000	3000	3000	3000
60	1750	2000	2000	2000
72	1500	1500	1500	1500
84	1250	1250	1400	1400
96	1000	1100	1300	1300
108	900	1000	1100	1100
120	800	900	1000	1000

G = 0.40

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	5000	5000	5000	5000
24	4000	4000	4000	4000
36	3000	3000	3000	3000
48	3000	3000	3000	3000
60	1750	2000	2000	2000
72	1500	1500	1500	1500
84	1250	1250	1400	1400
96	1000	1100	1300	1300
108	900	1000	1100	1100
120	800	900	1000	1000

G = 0.60

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	5000	5000	5000	5000
24	4000	4000	4000	4000
36	3000	3000	3000	3000
48	3000	3000	3000	3000
60	1750	2000	2000	2000
72	1500	1500	1500	1500
84	1250	1250	1400	1400
96	1000	1100	1300	1300
108	900	1000	1100	1100
120	800	900	1000	1000

G = 0.80

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	5000	5000	5000	5000
24	4000	4000	4000	4000
36	3000	3000	3000	3000
48	3000	3000	3000	3000
60	1750	2000	2000	2000
72	1500	1500	1500	1500
84	1250	1250	1400	1400
96	1000	1100	1300	1300
108	900	1000	1100	1100
120	800	900	1000	1000

G = 1.00

STRUT SPAN	LONGITUDINAL BRACE SPACING			
Inch	8X Lbs	4X Lbs	3X Lbs	2X Lbs
18	5000	5000	5000	5000
24	4000	4000	4000	4000
36	3000	3000	3000	3000
48	3000	3000	3000	3000
60	1750	2000	2000	2000
72	1500	1500	1500	1500
84	1250	1250	1400	1400
96	1000	1100	1300	1300
108	900	1000	1100	1100
120	800	900	1000	1000

ISAT International Seismic Application Technology
14948 Northam Street, La Mirada, CA 90638
877-699-4728 (Toll Free) 714-523-0845 (fax)
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2007 CBC - SEISMIC DESIGN FORCE (SDF) CALCULATION WORKSHEET

INTERNATIONAL SEISMIC APPLICATION TECHNOLOGY
14948 Northam St., La Mirada, CA 90638
PHONE 877-699-4728 FAX 714-523-0845

Date: 4/27/2009

Project Name: SKYLINE COLLEGE BLDG. 4
Project Zip Code: 94066
Location: SAN BRUNO, CA
Contractor: CMI

Appplicable MP Systems: Non-Vibration isolated (sheetmetal) duct and equipment

PROJECT SEISMIC ENGINEERING PARAMETERS

Note: The following Seismic Criteria was obtained from the structural portion of the project documents. Information not provided in the project documents has been derived from the code sections or tables noted below.

Design spectral response acceleration (5% Damped) at short periods (Section 1613A.5.4)	S_{DS} =	1.15
Information may not appear for the variables below if S_{DS} is shown on the line above		
The MCE, 5% damped, spectral response acceleration at short periods (Section 1613A.5.3)	S_{MS} =	N/A
Mapped MCE, 5% damped, spectral response acceleration at short periods (Section 1613A.5.1)	S_1 =	N/A
Short-Period site coefficient (at 0.2 s period) (Table 1613A.5.3(1))	F_a =	N/A
Mapped MCE, 5% damped, Spectral Response at a period of 1s (Section 1613A.5.1)	S_1 =	N/A
Site Class (Table 1613A.5.2)	Site Class =	N/A
Seismic Design Category (Section 1613A.5.6)	Seismic Design Category =	D
Information may not appear for the variables below if Seismic Design Category is shown on the line above:		
Occupancy Category (Table 1604A.5)	Occupancy Category =	N/A
Component Importance Factor (ASCE 7-05, Section 13.1.3)	I_p =	1.50
Component Amplification Factor (ASCE 7-05, Table 13.6-1)	a_p =	2.50
Component Response Modification Factor (ASCE 7-05, Table 13.6-1)	R_p =	6.00
Average Roof Height of Structure Relative to the Base Elevation	h =	44.00

***Tables and Sections noted above derive from the 2007 CBC unless noted otherwise.*

**2007 CBC SEISMIC FORCE (F_p) CALCULATION (FROM ASCE 7-05, CHA