

Roof Area	Gcp +/- Gcpi				Surface Pressure (psf)			
	10 sf	50 sf	100 sf	500 sf	10 sf	50 sf	100 sf	500 sf
Negative Zone 1	-1.18	-1.11	-1.08	-1.08	-31.5	-29.8	-28.8	-28.8
Negative Zone 2	-1.98	-1.49	-1.28	-1.28	-52.8	-39.7	-34.1	-34.1
Negative Zone 3	-1.98	-1.49	-1.28	-1.28	-79.4	-47.7	-34.1	-34.1
Positive Zone 1	0.48	0.41	0.38	0.38	16.0	16.0	16.0	16.0
Positive Zones 2 & 3	1.08	0.97	0.92	0.81	28.8	25.9	24.5	21.6
Overhang Zone 1&2	-1.7	-1.63	-1.6	-1.1	-45.3	-43.4	-42.6	-29.3
Overhang Zone 3	-1.7	-1.63	-1.6	-1.1	-45.3	-43.4	-42.6	-29.3

Negative zone 3 = zone 2 if parapet height >= 5ft.  
 Overhang pressures in the table above assume an internal pressure coefficient (Gcpi) of 0.0  
 Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 4.8 psf)

Parapet	Area	Surface Pressure (psf)		
		10 sf	20 sf	42 sf
Solid Parapet Pressure	Windward	30.1	28.8	27.3
	Leeward	-55.2	-49.3	-43.0
Windward	Zone 4:	30.1	28.8	27.3
	Zone 5:	30.1	28.8	27.3
Leeward	Zone 4:	-55.2	-49.3	-43.0
	Zone 5:	-83.0**	-68.8**	-53.5**

\*\*If parapet height is 3 feet or greater, Leeward Zone 5 pressure is equal to Leeward Zone 4 pressure

Walls	Area	Gcp +/- Gcpi				Surface Pressure (psf)			
		10 sf	100 sf	200 sf	500 sf	10 sf	100 sf	200 sf	500 sf
Negative Zone 4	-1.17	-1.01	-0.98	-0.90	-31.2	-27.0	-25.7	-24.0	
Negative Zone 5	-1.44	-1.12	-1.03	-0.90	-38.4	-29.9	-27.4	-24.0	
Positive Zone 4 & 5	1.08	0.92	0.87	0.81	28.8	24.6	23.3	21.6	

Note: Gcp reduced by 10% due to roof angle <= 10 deg.

STEEL COLUMN SCHEDULE		
MARK	C1	C2
ROOF		
SECOND FLOOR		
FIRST FLOOR/FOUND.	HSS 4x4x1/2	HSS 4x4x1/2
BASE PLATE	3/4 x 10 x 0'-10	3/4 x 10 x 0'-10
ANCHOR BOLTS	SEE 8 / S2.1	SEE 8 / S2.1
REMARKS		

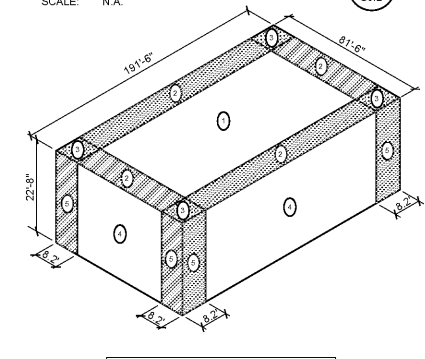
NOTES:  
 1. SEE DETAIL 8 / S2.1 FOR TYPICAL COLUMN BASE PLATE LAYOUT.  
 2. CONTINUE COLUMN TO THE TOP OF THE PARAPET WHERE REQUIRED.

COLUMN FOOTING SCHEDULE			
MARK	F4.0	F4.5	F5.5
SIZE	4'-0" x 4'-0"	4'-6" x 4'-6"	5'-6" x 5'-6"
DEPTH	1'-2"	1'-2"	1'-2"
REINFORCEMENT	(7) #4 BOTTOM EACH WAY	(7) #4 BOTTOM EACH WAY	(6) #5 BOTTOM EACH WAY
REMARKS			

NOTES:  
 29 GAGE U-PANEL PROPERTIES: Ix (TOP) = 0.0151 IN<sup>4</sup> / FOOT, Ix (BOTTOM) = 0.106 IN<sup>4</sup> / FOOT  
 26 GAGE U-PANEL PROPERTIES: Ix (TOP) = 0.0223 IN<sup>4</sup> / FOOT, Ix (BOTTOM) = 0.0152 IN<sup>4</sup> / FOOT

SHEAR WALL SCHEDULE		
SHEAR WALL DESIGNATION	DESCRIPTION	END POST
△	TYPICAL INTERIOR STUDS @ 2'-0" ON CENTER SHEATHED WITH 29 GAGE U-PANELS SINGLE SIDED SEE 1 / S5.1 AND 3 / S5.1 FOR PANEL CONSTRUCTION	(2) TYPICAL INTERIOR STUDS

SCHEDULE OF COMPONENTS AND CLADDING WIND PRESSURES 1  
 SCALE: N.A.



NOTE: FOR WIND PRESSURE, SEE SCHEDULE 1 / S0.2. NUMBERS INDICATE ZONES.

DIAGRAM OF COMPONENTS AND CLADDING WIND PRESSURES 1A  
 SCALE: N.A.

SCHEDULE OF STEEL COLUMNS 2  
 SCALE: NONE

HEADER SCHEDULE				
HEADER DESIGNATION	DESCRIPTION	JAMB	SILL TRACK SEE NOTE 1	NO. OF SCREWS EACH END
DH4E	(2) 400 S 250-54 BOXED WITH 600 T 200-54 TRACKS TOP AND BOTTOM. SEE DETAIL 9 / S5.1	(2) TYPICAL EXTERIOR STUDS	600 T 250-54	6
DH6	(2) 600 S 250-68 BACK-TO-BACK. SEE DETAIL 6 / S5.1	(2) TYPICAL INTERIOR STUDS	-	6
DH8	(2) 800 S 250-68 BACK-TO-BACK. SEE DETAIL 6 / S5.1	(2) TYPICAL INTERIOR STUDS	-	10
DH10	(2) 1000 S 250-97 BACK-TO-BACK. SEE DETAIL 6 / S5.1	(2) TYPICAL INTERIOR STUDS	-	10
H8	800 S 250-68. ATTACH TO EACH LOAD BEARING STUD WITH (6) #12 SCREWS. SIMILAR TO DETAIL 7 / S5.1	(2) TYPICAL INTERIOR STUDS	-	6

NOTES:  
 1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE SILLS ARE REQUIRED.

SCHEDULE OF HEADERS 3  
 SCALE: NONE

SCHEDULE OF COLUMN FOOTINGS 3  
 SCALE: NONE

COLD-FORMED STEEL MEMBER NAMING SYSTEM AND DEFINITIONS			
DEPTH	MEMBER	FLANGE (PURLIN / LIP)	THICKNESS (MILS)
250 (2 1/2")	S-STUD	1 1/2" (1 1/2")	33 (20 GAUGE)
350 (3 1/2")	T (TRACK)	1 1/2" (1 1/2")	43 (18 GAUGE)
362 (3 1/2")	Z-PURLIN	200 (2") (1 1/2")	54 (16 GAUGE)
400 (4")		250 (2 1/2") (1 1/2")	68 (14 GAUGE)
550 (5 1/2")		300 (3") (1 1/2")	97 (12 GAUGE)
800 (8")			
925 (9 1/2")			
1000 (10")			
1200 (12")			
1400 (14")			

EXAMPLES:  
 STUD 600 S 200 - 54  
 TRACK 400 T 250 - 33  
 Z - PURLIN 800 Z 200 - 68

SCHEDULE OF COLD FORMED MEMBERS 6  
 SCALE: NONE

SCHEDULE OF SHEAR WALLS 4  
 SCALE: NONE

COLD-FORMED STEEL CONNECTORS AND FASTENING SYSTEM DESCRIPTIONS AND DEFINITIONS				
SELF DRILLING SCREWS				
DRAWING DEFINITION	SIZING INFORMATION	PROVIDE SCREWS COMPLYING WITH ASTM C1513		
#8	#8 - 18 x 3/4" HHW	REFERENCE PUBLICATIONS		
#10	#10 - 16 x 1" HHW	ICC ESR - 3294 ELCO CONSTRUCTION PRODUCTS		
#12	#12 - 14 x 1" HHW	ICC ESR - 1976 ITW BUILDEX		
#14	1/4" - 14 x 1 1/2" HHW	ICC ESR - 2169 HILTI, INC.		
POWDER ACTUATED FASTENERS (PAF)				
DRAWING DEFINITION	SHANK DIAMETER	MANUFACTURER'S MODEL	MINIMUM PENETRATION	REFERENCE PUBLICATIONS
0.157" Ø PAF	0.157"	PDP	X-U 15	ICC ESR - 2269 HILTI (X-U)
0.177" Ø PAF	0.177"	PDPH	DS	ICC ESR - 1663 HILTI (DS) ICC ESR - 2138 SIMPSON STRONG-TIE

SCHEDULE OF COLD FORMED STEEL CONNECTORS 7  
 SCALE: NONE

TENSION LAP SPLICE LENGTHS (IN INCHES)									
UNCOATED BARS - NORMAL WEIGHT CONCRETE - GRADE 60 BARS									
BAR SIZE	LAP CLASS	3,000 psi CONCRETE				4,000 psi CONCRETE			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	32	17	25	19	28	15	22
	B	28	42	22	32	24	36	19	28
#4	A	29	43	22	33	25	37	19	27
	B	37	56	29	43	32	48	25	36
#5	A	36	54	28	41	31	47	24	36
	B	47	70	36	54	40	60	31	47
#6	A	43	64	33	50	37	56	28	43
	B	56	84	43	64	48	72	37	56
#7	A	63	94	48	69	54	81	41	63
	B	81	122	63	94	70	105	51	81
#8	A	72	107	55	82	62	93	48	72
	B	93	139	72	105	81	122	62	93
#9	A	81	121	62	91	70	105	54	81
	B	105	156	81	121	99	139	79	105
#10	A	91	136	70	105	79	116	61	91
	B	118	177	91	136	102	153	79	118
#11	A	101	151	78	116	87	131	67	101
	B	126	196	101	151	113	170	87	131

NOTES:  
 1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER TO CENTER SPACING OF THE BARS ARE DEFINED AS FOLLOWS:  
 2. BEAMS OR COLUMNS:  
 CASE 1: COVER AT LEAST 1 BAR DIAMETER AND OR CTR. - CTR. SPACING AT LEAST 2 BAR DIAMETERS.  
 CASE 2: COVER LESS THAN 1 BAR DIAMETER AND OR CTR. - CTR. SPACING LESS THAN 2 BAR DIAMETERS.  
 ALL OTHERS:  
 CASE 1: COVER AT LEAST 1 BAR DIAMETER AND OR CTR. - CTR. SPACING AT LEAST 3 BAR DIAMETERS.  
 CASE 2: COVER LESS THAN 1 BAR DIAMETER AND OR CTR. - CTR. SPACING LESS THAN 3 BAR DIAMETERS.

TABLE OF CONCRETE REINFORCEMENT SPLICE LENGTHS 8  
 SCALE: NONE

TENSION LAP SPLICE IN MASONRY (IN INCHES)								
f'm	#3	#4	#5	#6	#7	#8	#9	
1500 psi	18	24	30	36	42	48	54	

NOTES:  
 1. IN ACCORDANCE WITH 2107.2 (2015 IBC).  
 2. FOR f'm = 80,000 psi UNGRADED.  
 3. MINIMUM MASONRY COVER = 3 1/2".

TABLE OF MASONRY REINFORCEMENT LAP SPLICE 9  
 SCALE: NONE

Life Storage #357  
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 Montgomery, AL 36117



ISSUE FOR CONSTRUCTION REVISIONS	

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