

BUILDING AND SAFETY 909.625.9477

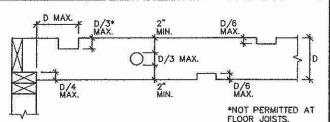
CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

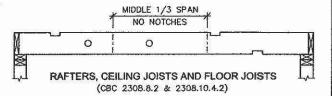
SUMMARY OF 2010 CBC SEC. 2308 AND CITY OF MONTCLAIR AMENDMENTS AND ORDINANCES. FOR USE WITH SINGLE-STORY CONSTRUCTION ONLY.

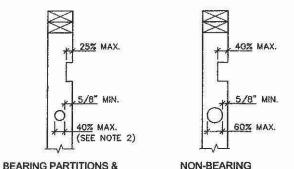
DEAD LOAD SHALL NOT EXCEED 15 PSF FOR COMBINED ROOF AND CEILING, OR EXTERIOR WALLS, OR FLOORS AND PARTITIONS. LIVE LOAD SHALL NOT EXCEED 40 PSF.

THIS SHEET IS FOR REFERENCE ONLY AND IS NOT A SUBSTITUE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.

City of Montclair 5111 Benito St. Montclair, CA 91763







NOTES:

CBC 2308.9.5

ALL EXTERIOR WALLS

(1) BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION AS A CUT OR NOTCH.

(CBC 2308.9.10 & 2308.9.11)

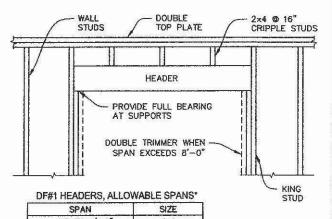
(2) BORED HOLES IN BEARING STUDS MAY BE INCREASED TO 60% IF STUDS ARE DOUBLED; NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS MAY BE BORED.

NOTCHING AND HOLES

PARTITIONS

2

3



1	SPAN	SIZE	l'
Г	UP TO 4'-0"	4×4	
	4'-1" TO 6'-0"	4x6	
Г	6'-1" TO 8'-0"	4x8	
	8'-1" TO 10'-0"	4x10	*MAXIMUM TRIBUTARY
	10'-1" TO 12'-0"	4x12	WDTH = 12*-6"
-			

HEADER/LINTEL

GENERAL NOTES:

- (1) SEE FASTENING SCHEDULE (CBC TABLE 2304.9.1) FOR NAILING NOT SHOWN.
- (2) BEARING WALLS AND BRACED WALLS REQUIRE CONTINUOUS FOOTINGS.
- (3) "DF" ON THESE SHEETS REFERS TO DOUGLAS FIR-LARCH. SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY PER CBC SEC. 2302.1.1.
- (4) "DL" AND "LL" ON THESE SHEETS INDICATES "DEAD LOAD" AND "LIVE LOAD," RESPECTIVELY.
- (5) WOOD MEMBERS SHALL BE OF SUFFICIENT SIZE TO PREVENT SPLITTING DUE TO NAILING. SPLIT MEMBERS SHALL BE REMOVED AND REPLACED.
- (6) "P.T." ON THESE SHEETS INDICATES PRESERVATIVE-TREATED WOOD.
- (7) WHEN FRAMED WITH ENCINEERED WOOD TRUSSES, ROOF DIAPHRAGMS SHALL BE CONNECTED TO INTERIOR BRACED WALLS BY MEANS OF DRAG TRUSSES OR TRUSS BLOCKING.

DF#2 RAFTERS, ALLOWABLE SPANS*

RAFTER	DL=10 PSF, LL=20 PSF								
SPACING			2x8	2x10	2x12				
12"	9'-10"	15'-6"	20'-5"	25'~8"					
16"	8'-11"	14'-1"	18'-2"	22'-3"	25'-9"				
24"	7'~10"	11'9"	14"-10"	18'-2"	21'-0"				

*DATA FROM CBC TABLE 2308.10.3(2).

DF#2 CEILING JOISTS, ALLOWABLE SPANS*

JOIST	ATTICS	WITHOUT ST	ORAGE, LL	≠10 PSF	ATTICS WITH LIMITED STORAGE, LL=2			
SPACING	2x4	;2x6	2x8	2x10	2x4	2x6	2x8	2x10
12"	12'-5"	19'-6"	25'-8"	-	9'-10"	14'-10"	18'-9"	22'-11"
16"	11'-3"	17"~8"	23'-0"	-	8'-9"	12'-10"	16'-3"	19'-10"
24"	9'-10"	14'~-10"	18'-9"	22'-11"	7'-2"	10'6"	13'-3"	16'-3"

*DATA FROM CBC TABLE 2308.10.2. ATTICS WITH STORAGE ARE HOSE WHERE THE CLEAR HEIGHT BETWEEN THE CEILING JOIST AND RAFTER IS 42" OR GREATER. A TICS SHALL BE UNINHABITABLE. CEILING DEAD LOAD SHALL NOT EXCEED 5 PSF.

RAFTER TIE CONNECTIONS, # 16d COMMON NAILS, SEE NOTE (5)*

904.000		100	300	200	.00000000		1000	R	OOF P	ITC 4								115
		3:12			4:12	12		5:12		- 1755 - 17 Ja C. Later C. V	7:12			9:12	10000111112-00	100	12:12	365 150
TIE	SPAN		SPAN		SPAN		SPAN		SPAN		SPAN			SPAN				
SPACING	12'	20'	25"	12'	20'	25'	12"	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'
12"	3	4	5	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3
16"	4	6	7	3	4	5	3	3	4	3	3	3	3	3	3	3	3	3
24"	5	8	10	4	6	8	3	5	6	3	4	5	3	3	4	3	3	3
32"	7	11	13	5	8	10	4	7	8	3	5	6	3	4	5	3	3	4
48"	10	16	19	7	12	15	6	10	12	4	7	9	4	6	7	3	4	5

*CBC TABLE 2308.10.4.1 VALUES ADJUSTED FOR DF#2 FRAMING. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL—HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED, RAFTER TIE NAILING MAY BE REDUCED PROPORTIONAL TO THE REDUCTION IN RAFTER SPAN; NO LESS THAN 3 NAILS SHALL BE PROVIDED AT EACH CONNECTION. NO SNOW LOAD.

DF#2 FLOOR JOISTS, ALLOWABLE SPANS*

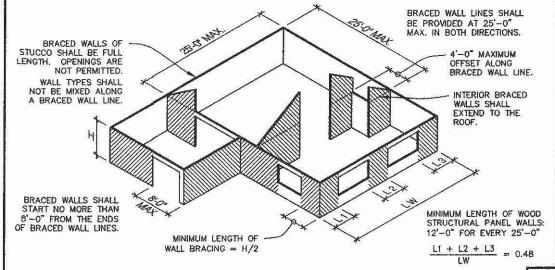
JOIST		DL=10 PSF,	LL∞40 PSF	
SPACING	2x6	:2x8	2x10	2x12
12"	10'-9"	14'-2"	17'9"	20'-7"
16"	9'-9"	12!'-7"	15'-5"	17'10"
24"	8'-1"	10'-3"	12'-7"	14'-7"

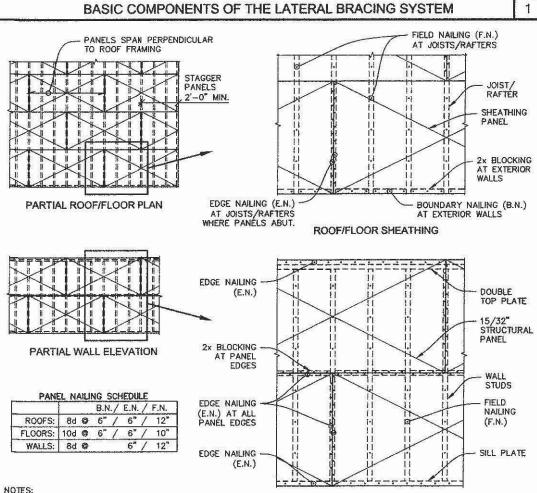
*DATA FROM CBC TABLE 2308.8(2)

PLYWOOD OR OSB FLOOR AND ROOF SHEATHING, ALLOWABLE SPANS*

SHEA	THING GRADE'S		FLOOR			
SPAN RATING FLOOR/ROOF		MAX. S	PAN (in.)	LOAD:	S (psf.)	PANEL EDGES WITH T&G JOINTS OR
	SPAN THICKNESS	WITH EDGE SUPPORT	WITHOUT EDGE SUPPORT	TOTAL LOAD	LIVE LOAD	BLOCKING MAX. SPAN (in.)
24/0	7/16, 1/2	24	20	40	40	0
24/16	7/16, 1/2	24	24	50	50	16
32/16	15/32, 1/2, 5/8	32	28	40	40	16
40/20	19/32, 5/8, 3/4, 7/8	40	32	40	30	20
48/24	23/32, 3/4, 7/8	48	36	45	45	24

*DATA FROM CBC TABLE 2304.7(3). SHEATHING PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS AND PERPENDICULAR TO SUPPORTS. FOR 1/2" SHEATHING, MAXIMUM SPAN SHALL BE 24". EDGE SUPPORT MAY BE PROVIDED BY TONGUE AND GROOVE EDGES, 2X BLOCKING, OR PANEL EDGE CLIPS.





(1) NAILS SHALL BE PLACED 3/8" FROM PANEL EDGES.

(3) MINIMUM DIMENSION OF SHEATHING PANEL IN ANY DIRECTION SHALL BE 2'-0"

(4) WALL SHEATHING PANELS MAY BE INSTALLED WITH THE LONG DIRECTION ORIENTED VERTICALLY.

(2) PROVIDE 1/8" GAP BETWEEN SHEATHING PANELS.

WALL SHEATHING