

UPLIFT CONNECTIONS - 110 MPH WINDS EXPOSURE "B"						
CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	U	L	S	NUM. OF 8d COM. NAILS OR 10d BOX NAILS IN EA. END OF 1'-1/4"x20 GA. STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	366	246	109R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	366	246	109R	4
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170	185	436	4

THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)

MINIMUM INSULATION R-VALUE					
MAX. GLAZING U-FACTOR	CEILING	WALLS	FLOORS	BASEMENT WALLS	CRACK/SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

WALL SHEATH, OR CLAD, REQ. FOR WIND LOAD-EXPOSURE "B"

SHEATHING LOCATION	STUD SPAC.	MAX. NAIL SPAC. FOR 8d NAILS (INCHES, O.C.)	
		E	F
INTERIOR ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
130 MPH WINDS-EXPOSURE "B" (TP-1)			

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS

FASTENER TYPE	FASTENER SPACING		
	4 FOOT PANEL SPAN ≤ 4 FOOT	4 FOOT PANEL SPAN ≤ 6 FOOT	6 FOOT PANEL SPAN ≤ 8 FOOT
2 1/2" x 6" WOOD SCREWS	16"	16"	12"
2 1/2" x 4" WOOD SCREWS	16"	16"	12"

WINDOWS IN BUILDINGS LOCATED IN WIND BORNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WINDBORNE DEBRIS. WOOD STRUCTURAL PANELS WITH A MIN. THICKNESS OF 7/16" AND A MAX. SPAN OF 8 FEET SHALL BE PERMITTED FOR OPENING PROTECTION IN ONE AND TWO STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.

HEADER NAILING SCHEDULE

DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD TO HEAD (FACE NAILED)	8d	10d	6" O.C. EDGES (FACE NAILED)

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

DESIGN CRITERIA:

THE CONSTRUCTION FOR SAID RESIDENCE, WHERE BASIC WIND SPEED IS 110 MILES PER HOUR, IS DESIGNED IN ACCORDANCE WITH: AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WIND RESISTANCE DESIGN AND CONSTRUCTION (WINDCRAFT) TWO FAMILY DWELLINGS (AF&PA) 2001, EDITION, AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2003 EDITION

HOLD-DOWNS

HOLD-DOWNS ARE REQUIRED AT THE END OF EACH SEGMENTED SHEARWALL SEGMENT OR AT EACH END OF A PERFORATED SHEARWALL. WHEN FULL HEIGHT SHEARWALL SEGMENTS MEET AT A CORNER, A SINGLE HOLD-DOWN SHALL BE PERMITTED TO BE USED TO RESIST THE OVERTURNING FORCES IN BOTH DIRECTIONS WHEN THE CORNER FRAMING IN THE ADJOINING WALLS IS FASTENED TOGETHER TO TRANSFER THE UPLIFT LOAD. SEE CORNER HOLD-DOWN DETAIL.

NOTE:

PRE-FABRICATED ROOF, FLOOR, WALLS, BEAMS AND COLUMNS PROVIDED BY OTHERS.

SEE SHEET A-2 FOR ALL WALL, FLOOR/CEILING AND ROOF CEILING ASSEMBLY RATINGS AS REQUIRED BY LOCAL CODE AND ORDINANCES FOR BUILDING TYPE AND RATING SELECTED.

JACK STUD REQUIREMENTS-FOR INTERIOR LOADBEARING WALLS							
HEADER SPAN (ft.)	ROOF SPAN (ft.)						
	12 FEET	5'	6.5'	3'	4.5'	5'	6.5'
2	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
6	1	1	1	1	1	2	1
8	1	1	1	1	1	3	2
10	1	1	1	2	2	4	3
12	1	1	1	2	2	4	3
14	2	1	1	3	2	4	3
16	2	1	1	3	2	4	3
2	1	1	1	1	1	1	1
4	1	1	1	1	1	2	1
6	2	1	1	2	2	3	3
8	2	2	1	3	2	5	3
10	2	2	2	4	3	6	4
12	3	2	2	5	3	7	5
14	3	2	2	6	4	8	5
16	4	3	2	6	4	9	6
HEADERS WIDTH: 3" (2-2x) 4.5" (3-2x) 5", 6.5" (4-2x) EACH W/ 1/2" FLYWD. SPACER BETWEEN							

JACK STUD REQUIREMENTS-FOR INTERIOR LOADBEARING WALLS

HEADER SPAN (ft.)	ROOF SPAN (ft.)						
	12 FEET	5'	6.5'	3'	4.5'	5'	6.5'
2	1	1	1	1	1	1	1
4	1	1	1	1	1	2	1
6	1	1	1	1	1	3	2
8	1	1	1	2	2	4	3
10	1	1	1	2	2	4	3
12	1	1	1	3	2	5	4
14	2	1	1	3	2	5	4
16	2	1	1	4	3	6	5
2	1	1	1	1	1	1	1
4	1	1	1	1	1	2	1
6	2	1	1	2	2	3	3
8	2	2	1	3	2	5	3
10	2	2	2	4	3	6	4
12	3	2	2	5	3	7	5
14	3	2	2	6	4	8	5
16	4	3	2	6	4	9	6
HEADERS WIDTH: 3" (2-2x) 4.5" (3-2x) 5", 6.5" (4-2x) EACH W/ 1/2" FLYWD. SPACER BETWEEN							

HEADER SPANS-FOR INTERIOR LOADBEARING WALLS			
HEADER SUPPORTING	SIZE	SPANS (ft.-in.)	BLDG. WIDTH (ft.)
	(2)2x4S	4'-4"	12
	(2)2x6S	6'-5"	24
	(2)2x8S	8'-1"	36
	(2)2x10S	9'-11"	48
	(2)2x12S	10'-2"	60
	(3)2x10S	11'-6"	72
	(3)2x12S	12'-5"	84
	(4)2x8S	14'-4"	96
	(4)2x10S	14'-4"	108
	(4)2x12S	14'-4"	120
	(4)2x10S	14'-4"	132
	(4)2x12S	14'-4"	144
	(4)2x10S	14'-4"	156
	(4)2x12S	14'-4"	168
	(4)2x10S	14'-4"	180
	(4)2x12S	14'-4"	192
	(4)2x10S	14'-4"	204
	(4)2x12S	14'-4"	216
	(4)2x10S	14'-4"	228
	(4)2x12S	14'-4"	240
	(4)2x10S	14'-4"	252
	(4)2x12S	14'-4"	264
	(4)2x10S	14'-4"	276
	(4)2x12S	14'-4"	288
	(4)2x10S	14'-4"	300
	(4)2x12S	14'-4"	312
	(4)2x10S	14'-4"	324
	(4)2x12S	14'-4"	336
	(4)2x10S	14'-4"	348
	(4)2x12S	14'-4"	360
	(4)2x10S	14'-4"	372
	(4)2x12S	14'-4"	384
	(4)2x10S	14'-4"	396
	(4)2x12S	14'-4"	408
	(4)2x10S	14'-4"	420
	(4)2x12S	14'-4"	432
	(4)2x10S	14'-4"	444
	(4)2x12S	14'-4"	456
	(4)2x10S	14'-4"	468
	(4)2x12S	14'-4"	480
	(4)2x10S	14'-4"	492
	(4)2x12S	14'-4"	504
	(4)2x10S	14'-4"	516
	(4)2x12S	14'-4"	528
	(4)2x10S	14'-4"	540
	(4)2x12S	14'-4"	552
	(4)2x10S	14'-4"	564
	(4)2x12S	14'-4"	576
	(4)2x10S	14'-4"	588
	(4)2x12S	14'-4"	600
	(4)2x10S	14'-4"	612
	(4)2x12S	14'-4"	624
	(4)2x10S	14'-4"	636
	(4)2x12S	14'-4"	648
	(4)2x10S	14'-4"	660
	(4)2x12S	14'-4"	672

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

* MAX. SPAN EXCEEDS 16' SPANS LIM. TO 16'

HEADER SPANS-EXPOSURE B FOR EXTERIOR LOADBEARING WALLS			
HEADER SIZE	SPAN	NO. FULL HGT. STUDS REQ. AT EA. END	WALLS
(2)2x4S	4'-7"	2	2
(2)2x6S	5'-6"	2	2
(2)2x8S	6'-5"	3	3
(2)2x10S	6'-9"	3	3
(2)2x12S	7'-5"	3	3
(3)2x8S	8'-3"	3	3
(3)2x10S	8'-9"	3	3
(3)2x12S	9'-4"	3	3
(4)2x8S	9'-5"	3	3
(4)2x10S	9'-6"	3	3
(4)2x12S	10'-0"	4	4
130 MPH WINDS-EXPOSURE "B" (TP-1) EACH W/ 1/2" FLYWD. SPACER BETWEEN			

NOTE: 1. BLDG. WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE SHOWN, SPANS ARE PERMITTED TO BE INTERPOLATED. 2. ALL HEADERS SHALL HAVE SOLID BLOCKING.

JACK STUD REQ.-EXP. B FOR EXTERIOR LOADBEARING WALLS

HEADER SUPPORTING	HEADER WIDTH		
	3" 4.5" 5" 6.5"	NO. JACK STUDS REQ.	WALLS
2	4	1	1
4	2	1	1
6	2	1	1
8	2	2	2
10	3	2	2
12	3	2	2
14	4	3	3
16	4	3	3
18	5	4	4
20	5	4	4
22	6	5	5
24	6	5	5
26	7	6	6
28	7	6	6
30	8	7	7
32	8	7	7
34	9	8	8
36	9	8	8
38	10	9	9
40	10	9	9
42	11	10	10
44	11	10	10
46	12	11	11
48	12	11	11
50	13	12	12
52	13	12	12
54	14	13	13
56	14	13	13
58	15	14	14
60	15	14	14
62	16	15	15
64	16	15	15
66	17	16	16
68	17	16	16
70	18	17	17
72	18	17	17
74	19	18	18
76	19	18	18
78	20	19	19
80	20	19	19
82	21	20	20
84	21	20	20
86	22	21	21
88	22	21	21
90	23	22	22
92	23	22	22
94	24	23	23
96	24	23	23
98	25	24	24
100	25	24	24
102	26	25	25
104	26	25	25
106	27	26	26
108	27	26	26
110	28	27	27
112	28	27	27
114	29	28	28
116	29	28	28
118	30	29	29
120	30	29	29
122	31	30	30
124	31	30	30
126	32	31	31
128	32	31	31
130	33	32	32
132	33	32	32
134	34	33	33
136	34	33	33
138	35	34	34
140	35	34	34
142	36	35	35
144	36	35	35
146	37	36	36
148	37	36	36
150	38	37	37
152	38	37	37
154	39	38	38
156	39	38	38
158	40	39	39
160	40	39	39
162	41	40	40
164	41	40	40
166	42	41	41
168	42	41	41
170	43	42	42
172	43	42	42
174	44	43	43
176	44	43	43
178	45	44	44
180	45	44	44
182	46	45	45
184	46	45	45
186	47	46	46
188	47	46	46
190	48	47	47
192	48	47	47
194	49	48	48
196			