

UPLIFT CONNECTIONS-130 MPH WINDS EXP. "B"						
CONNECTION	FRAMING SPACING (ft.)	ROOF SPAN (ft.)	U	L	S	NUM. OF B8 COM. NAILS OR 10d BOX NAILS IN EA. END OF 10d BOX NAILS IN EA. END OF STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	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	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-28	R-13	R-11	R-5	R-5

WALL SHEATH. OR CLAD. REQ. FOR WIND LOAD-EXP. B				
SHEATHING LOCATION	STUD SPAC.	MAX NAIL SPAC. FOR 8d NAILS (INCHES O.C.)	E	F
INTERIOR ZONE	12" O.C.	6	6	12
	16" O.C.	6	6	12
	12" O.C.	6	6	12
PERIMETER EDGE ZONE	12" O.C.	6	6	12
	16" O.C.	6	6	12
	12" O.C.	6	6	12

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS				
FASTENER TYPE	FASTENER SPACING			SPACING
	4 FOOT	6 FOOT	8 FOOT	
2 1/2" x 6" NODD SCREWS	16"	12"	9"	12"
2 1/2" x 6" NODD SCREWS	16"	12"	9"	12"

WINDBORNE DEBRIS PROTECTION IN WIND BORNE DEBRIS REGIONS SHALL HAVE GUARDED OPENINGS PROTECTED FROM WINDBORNE DEBRIS. WOOD STRUCTURAL PANELS WITH A GUARDED OPENING SHALL BE FASTENED TO THE SUBSTRATE WITH ANCHOR BOLTS OR ANCHOR BOLTS WITH GUARDED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.

HEADER NAILING SCHEDULE			
DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD TO BEAD (FRESH WOOD)	8d	10d	6" O.C. EDGES (FRESH WOOD)

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

ROOF UNDERLAYMENT APPLICATION

FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17 PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33 PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:

APPLY A 1/8 INCH STRIP OF UNDERLAYMENT FELT/PAPER/FLASH WITH AND STARTING AT THE EAVES, FASTENED SUPERFICIALLY TO HOLD IN PLACE. STARTING AT THE EAVE APPLY 3/8 INCH WIDE SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 1/8 INCHES, AND FASTENED SUPERFICIALLY TO HOLD IN PLACE.

FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33 PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:

UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUPERFICIALLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION/FASTENING

ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:

- THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
- THE BASIC WIND SPEED IS 120 MPH OR GREATER.
- SPECIAL WIND ZONES.

UPLIFT CONNECTIONS

ROOF ASSEMBLY TO WALL ASSEMBLY

UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE

WALL ASSEMBLY TO FOUNDATION

STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD SHALL BE FROM STUD TO STUD. THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE

WALL ASSEMBLY TO FOUNDATION

FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL PLATE OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" x 2.0 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES IN CONCRETE FOUNDATION. FOR BEAMS ON BLOCK, THE BOTTOM LAYER OF CONCRETE FOUNDATION SHALL BE REINFORCED WITH 2 #4 BARS. SQUARE WASHERS SHALL NOT EXCEED ON THE ANCHOR BOLTS AND ANCHOR STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB ON GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT DIPPED GALV. ANCHOR BOLTS SHALL BE 1/2" DIA. GALV. ANCHOR STRAPS SHALL BE 1/2" DIA. GALV. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE

JACK STUD REQUIREMENTS- FOR INTERIOR LOADBEARING WALLS

HEADER SUPPORTING	ROOF SPAN (ft.)					
	12 FEET	5" 12 FEET	3" 4.5" 5" 6.5"	4" 4.5" 5" 6.5"	3" 4.5" 5" 6.5"	3" 4.5" 5" 6.5"
2	1	1	1	1	1	1
4	1	1	1	1	1	1
6	1	1	1	1	1	1
8	1	1	1	1	1	1
10	1	1	1	1	1	1
12	1	1	1	1	1	1
14	2	1	1	1	1	1
16	2	1	1	1	1	1
2	1	1	1	1	1	1
4	1	1	1	1	1	1
6	2	1	1	1	1	1
8	2	2	1	1	1	1
10	2	2	2	1	1	1
12	3	2	2	1	1	1
14	3	2	2	1	1	1
16	4	3	2	1	1	1
18	4	3	2	1	1	1

SILL or BOTTOM PLATE TO END CONNECTIONS RESISTING UPLIFT LOADS-130MPH WINDS EXP. "B"

BOTTOM PLATE TO END ANCHOR BOLT CONNECTION RESISTING UPLIFT LOADS	MAX ANCHOR BOLT SPACING (in.)	
	8" END ZONES	INTERIOR ZONES
1-3 STORES	28	33

SILL or BOTTOM PLATE TO END CONNECTIONS RESISTING SHEAR LOADS-130MPH WINDS EXP. "B"

BOTTOM PLATE TO END ANCHOR BOLT CONNECTION RESISTING SHEAR LOADS	MAX ANCHOR BOLT SPACING (in.)	
	1/2" ANCH. BOLTS	5/8" ANCH. BOLTS
1-3 STORES	30	45

HEADER SPANS-FOR INT. LOADBEARING WALLS

HEADER SUPPORTING	BLDG. WIDTH (ft.)		
	12	24	36
2	4.7	5.6	6.1
4	5.6	6.1	6.5
6	6.1	6.5	6.9
8	6.5	6.9	7.3
10	7.0	7.3	7.7
12	7.3	7.7	8.1
14	7.7	8.1	8.5
16	8.1	8.5	8.9
18	8.5	8.9	9.3
20	8.9	9.3	9.7
22	9.3	9.7	10.1
24	9.7	10.1	10.5
26	10.1	10.5	10.9
28	10.5	10.9	11.3
30	10.9	11.3	11.7
32	11.3	11.7	12.1
34	11.7	12.1	12.5
36	12.1	12.5	12.9
38	12.5	12.9	13.3
40	12.9	13.3	13.7
42	13.3	13.7	14.1
44	13.7	14.1	14.5
46	14.1	14.5	14.9
48	14.5	14.9	15.3
50	14.9	15.3	15.7
52	15.3	15.7	16.1
54	15.7	16.1	16.5
56	16.1	16.5	16.9
58	16.5	16.9	17.3
60	16.9	17.3	17.7
62	17.3	17.7	18.1
64	17.7	18.1	18.5
66	18.1	18.5	18.9
68	18.5	18.9	19.3
70	18.9	19.3	19.7
72	19.3	19.7	20.1
74	19.7	20.1	20.5
76	20.1	20.5	20.9
78	20.5	20.9	21.3
80	20.9	21.3	21.7
82	21.3	21.7	22.1
84	21.7	22.1	22.5
86	22.1	22.5	22.9
88	22.5	22.9	23.3
90	22.9	23.3	23.7
92	23.3	23.7	24.1
94	23.7	24.1	24.5
96	24.1	24.5	24.9
98	24.5	24.9	25.3
100	24.9	25.3	25.7

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

ROOF SHEATH OR CLAD. REQ. FOR WIND LOAD-EXP. B

SHEATHING LOCATION	RAFTER/TRUSS SPAC.	MAX NAIL SPAC. FOR 8d NAILS (INCHES O.C.)	E	F
INTERIOR ZONE	12" O.C.	6	6	12
	16" O.C.	6	6	12
	12" O.C.	6	6	12
PERIMETER EDGE ZONE	12" O.C.	6	6	12
	16" O.C.	6	6	12
	12" O.C.	6	6	12

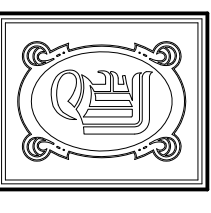
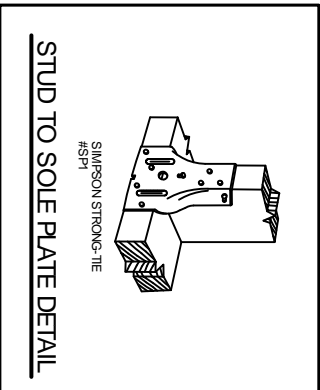
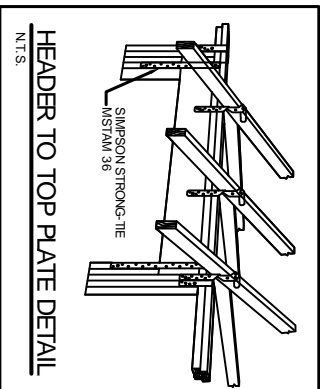
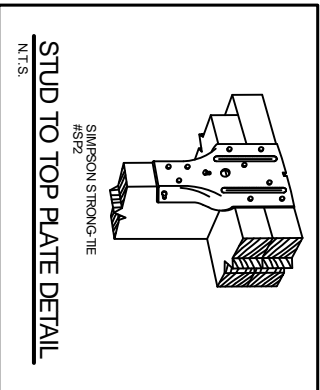
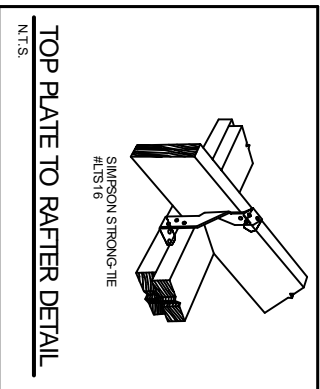
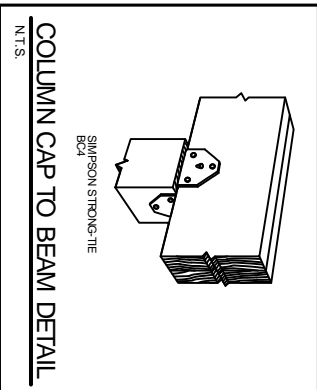
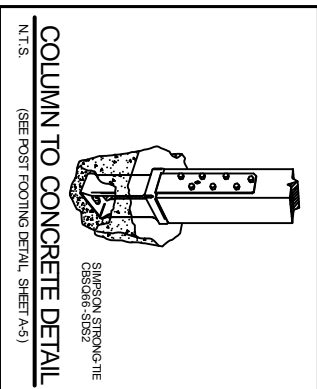
JACK STUD REQ. EXP. B FOR EXT. LOADBEARING WALLS				
HEADER SUPPORTING	HEADER SPAN (ft.)	HEADER WIDTH	NO. JACK STUDS REQ.	NO. FULL HGT. STUDS REQ. AT EA. END
2	4	1	1	1
4	4	1	1	1
6	4	2	2	2
8	4	2	2	2
10	4	2	2	2
12	4	2	2	2
14	4	3	2	2
16	4	3	2	2
2	1	1	1	1
4	1	1	1	1
6	2	2	2	2
8	2	2	2	2
10	4	3	2	2
12	4	3	2	2
14	4	3	2	2
16	4	3	2	2
18	4	3	2	2
20	4	3	2	2
22	4	3	2	2
24	4	3	2	2
26	4	3	2	2
28	4	3	2	2
30	4	3	2	2
32	4	3	2	2
34	4	3	2	2
36	4	3	2	2
38	4	3	2	2
40	4	3	2	2
42	4	3	2	2
44	4	3	2	2
46	4	3	2	2
48	4	3	2	2
50	4	3	2	2
52	4	3	2	2
54	4	3	2	2
56	4	3	2	2
58	4	3	2	2
60	4	3	2	2
62	4	3	2	2
64	4	3	2	2
66	4	3	2	2
68	4	3	2	2
70	4	3	2	2
72	4	3	2	2
74	4	3	2	2
76	4	3	2	2
78	4	3	2	2
80	4	3	2	2
82	4	3	2	2
84	4	3	2	2
86	4	3	2	2
88	4	3	2	2
90	4	3	2	2
92	4	3	2	2
94	4	3	2	2
96	4	3	2	2
98	4	3	2	2
100	4	3	2	2

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.

HEADER SPANS-EXPOSURE B FOR EXTERIOR LOADBEARING WALLS

HEADER SIZE	SPAN	NO. FULL HGT. STUDS REQ. AT EA. END
2	4.7	2
4	5.6	3
6	6.1	3
8	6.5	3
10	7.0	3
12	7.5	3
14	8.0	3
16	8.5	3
18	9.0	3
20	9.5	3
22	10.0	4

NOTE: 1.00 MPH WINDS EXPOSURE B (TP) EACH WAY 1/2" RAYWD. SPACER BETWEEN



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NOTES &
DETAILS

REV:
SCALE: AS NOTED
JOB#: DATE: 7-20-09
SHEET

S-2