

**ROOF UNDERLAYMENT APPLICATION**

FOR ROOF SLOPES FROM 1/2% TO 12% USE 1/2\"/>

APPLY A 1/8\"/>

**SHINGLE APPLICATION/FASTENING**

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

**UPLIFT CONNECTIONS**

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 STUD AND THE WALL CONNECTION SHALL BE ATTACHED TO THE UPLIFT AND THE WALL CONNECTION SHALL BE ATTACHED TO THE STUD BE IN ACCORDANCE WITH TABLE.

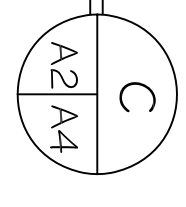
**WALL ASSEMBLY TO WALL ASSEMBLY**

STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD, WHEN UPPER STORY WALL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION. ALL PLATE GRADE 3/8\"/>

**SECTION**

SCALE: 1/2" = 1'-0"



THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)				
MINIMUM INSULATION R-VALUE				
MAX. GLAZING U-FACTOR	CEILING	WALLS	FLOORS	BASEMENT WALLS
0.75	0.26	0.13	0.11	0.3
0.25	0.26	0.13	0.11	0.3

HEADER SPANS-EXPOSURE B FOR EXTERIOR LOADBearing WALLS				
HEADER SIZE	SPAN	NO. FULL HT. STUDS	NO. JACK STUDS REQ.	REQ. AT EA. END
2x4	4'-2"	2	2	2
2x6	5'-2"	2	2	2
2x8	6'-2"	2	2	2
2x10	7'-2"	3	3	3
2x12	8'-2"	3	3	3
2x14	9'-2"	3	3	3
2x16	10'-2"	3	3	3
2x18	11'-2"	3	3	3
2x20	12'-2"	4	4	4
2x22	13'-2"	4	4	4
2x24	14'-2"	4	4	4
2x26	15'-2"	4	4	4
2x28	16'-2"	4	4	4
2x30	17'-2"	4	4	4
2x32	18'-2"	4	4	4
2x34	19'-2"	4	4	4
2x36	20'-2"	4	4	4
2x38	21'-2"	4	4	4
2x40	22'-2"	4	4	4
2x42	23'-2"	4	4	4
2x44	24'-2"	4	4	4
2x46	25'-2"	4	4	4
2x48	26'-2"	4	4	4
2x50	27'-2"	4	4	4
2x52	28'-2"	4	4	4
2x54	29'-2"	4	4	4
2x56	30'-2"	4	4	4
2x58	31'-2"	4	4	4
2x60	32'-2"	4	4	4
2x62	33'-2"	4	4	4
2x64	34'-2"	4	4	4
2x66	35'-2"	4	4	4
2x68	36'-2"	4	4	4
2x70	37'-2"	4	4	4
2x72	38'-2"	4	4	4
2x74	39'-2"	4	4	4
2x76	40'-2"	4	4	4
2x78	41'-2"	4	4	4
2x80	42'-2"	4	4	4
2x82	43'-2"	4	4	4
2x84	44'-2"	4	4	4
2x86	45'-2"	4	4	4
2x88	46'-2"	4	4	4
2x90	47'-2"	4	4	4
2x92	48'-2"	4	4	4
2x94	49'-2"	4	4	4
2x96	50'-2"	4	4	4
2x98	51'-2"	4	4	4
2x100	52'-2"	4	4	4

NOTE: 1. STUDS WITH HORIZONTAL SPACING SHALL BE USED FOR ALL EXTERIOR WALLS. 2. STUDS WITH VERTICAL SPACING SHALL BE USED FOR ALL INTERIOR WALLS. 3. STUDS WITH 16\"/>

**WALL SHEATH. OR CLAD. REQ. FOR WIND LOAD-EXP. B**

SHEATHING LOCATION	STUD SPAC. (IN.)	MAX. NAIL SPAC. FOR EX. WIND LOAD-EXP. B		
		E	F	F
1'-0" O.C.	12	6	6	12
	16	6	6	12
1'-6" O.C.	12	6	6	12
	16	6	6	12
2'-0" O.C.	12	6	6	12
	16	6	6	12

**JACK STUD REQUIREMENTS-FOR INTERIOR LOADBearing WALLS**

HEADER SUPPORKING	HEADER SPAN (ft.)	ROOF SPAN (ft.)					
		12 FEET	14 FEET	16 FEET	18 FEET	20 FEET	22 FEET
3	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1

**SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING UPLIFT LOADS-1.45MPH WINDS EXP. 'B'**

BOTTOM PLATE TO FND. ANCHOR RESISTING	FOUNDATION SUPPORKING	MAX. ANCHOR BOLT SPACING (in.)
UPLIFT LOADS	1-1 STORIES	28
	2-3 STORIES	33

**SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING SHEAR LOADS-1.45MPH WINDS EXP. 'B'**

BOTTOM PLATE TO FND. ANCHOR RESISTING	FOUNDATION SUPPORKING	MAX. ANCHOR BOLT SPACING (in.)
UPLIFT LOADS	1-1 STORIES	28
	2-3 STORIES	33

**UPLIFT CONNECTIONS-1.45MPH WINDS EXP. 'B'**

CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	UPLIFT LOADS
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	336
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	336
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170

**PAUL WRIGHT**  
**ADDITION TO EXISTING RESIDENCE**  
 67111 LOUISIANA HWY 434  
 LACOMBE, LA  
 70135

JOB No: 2147 DATE: 08-06-2012  
 DRAWN BY: BSN CHECKED BY: BSN

**DAMMON ENGINEERING, INC.**  
 Architects & Engineers

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REVISIONS

#	DESCRIPTION	DATE

SHEET No: 03 OF 10  
**A-1**  
**BUILDING SECTION**