

HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)		
		12	24	36
(2)2x4'S	4'-4"	3'-1"	2'-6"	
(2)2x6'S	6'-5"	4'-6"	3'-8"	
(2)2x8'S	8'-1"	5'-9"	4'-8"	
(2)2x10'S	9'-11"	7'-0"	5'-9"	
(2)2x12'S	11'-6"	8'-1"	6'-7"	
(2)2x8'S	10'-2"	7'-2"	5'-10"	
(2)2x10'S	12'-5"	8'-9"	7'-2"	
(2)2x12'S	14'-4"	10'-2"	8'-5"	
(2)2x8'S	11'-4"	8'-3"	6'-9"	
(2)2x10'S	14'-4"	10'-1"	8'-5"	
(2)2x12'S	*	11'-9"	9'-7"	
(2)2x4'S	2'-10"	2'-1"	1'-8"	
(2)2x6'S	4'-4"	3'-11"	2'-6"	
(2)2x8'S	5'-4"	5'-11"	3'-5"	
(2)2x10'S	6'-6"	4'-9"	3'-11"	
(2)2x12'S	7'-6"	5'-6"	4'-7"	
(2)2x8'S	8'-8"	4'-10"	4'-0"	
(2)2x10'S	8'-11"	6'-0"	4'-11"	
(2)2x12'S	9'-5"	5'-8"	5'-8"	
(2)2x8'S	9'-4"	6'-10"	5'-9"	
(2)2x10'S	10'-4"	8'-10"	6'-7"	
(2)2x12'S	10'-10"	8'-10"	6'-7"	

HEADER SUPPORTING	SPAN (ft.)	ROOF SPAN (ft.)						
		12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET	
2	3'	4.5'	5'	6.5'	5'	6.5'	5'	6.5'
4	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
14	2	2	2	2	2	2	2	2
16	2	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
6	2	2	2	2	2	2	2	2
8	2	2	1	1	1	1	1	1
10	2	2	1	1	1	1	1	1
12	3	2	2	2	2	2	2	2
14	3	2	2	2	2	2	2	2
16	4	3	2	2	2	2	2	2
18	4	3	2	2	2	2	2	2

* MAX. SPAN EXCEEDS 18' (SPANS LIM. TO 18')

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

JACK STUD REQUIREMENTS-FOR INTERIOR LOADBEARING WALLS

HEADER SUPPORTING	SPAN (ft.)	ROOF SPAN (ft.)						
		12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET	
2	3'	4.5'	5'	6.5'	5'	6.5'	5'	6.5'
4	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
14	2	2	2	2	2	2	2	2
16	2	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
6	2	2	2	2	2	2	2	2
8	2	2	1	1	1	1	1	1
10	2	2	1	1	1	1	1	1
12	3	2	2	2	2	2	2	2
14	3	2	2	2	2	2	2	2
16	4	3	2	2	2	2	2	2
18	4	3	2	2	2	2	2	2

NOTE: BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE POINTED, THE SPANS ARE PERMITTED TO BE INTERPOLATED.

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

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

HEADER SUPPORTING	SPAN (ft.)	ROOF SPAN (ft.)						
		12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET	
2	3'	4.5'	5'	6.5'	5'	6.5'	5'	6.5'
4	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
14	2	2	2	2	2	2	2	2
16	2	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
6	2	2	2	2	2	2	2	2
8	2	2	1	1	1	1	1	1
10	2	2	1	1	1	1	1	1
12	3	2	2	2	2	2	2	2
14	3	2	2	2	2	2	2	2
16	4	3	2	2	2	2	2	2
18	4	3	2	2	2	2	2	2

NOTE: BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE POINTED, THE SPANS ARE PERMITTED TO BE INTERPOLATED.

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)		
		12	24	36
(2)2x4'S	4'-4"	3'-1"	2'-6"	
(2)2x6'S	6'-5"	4'-6"	3'-8"	
(2)2x8'S	8'-1"	5'-9"	4'-8"	
(2)2x10'S	9'-11"	7'-0"	5'-9"	
(2)2x12'S	11'-6"	8'-1"	6'-7"	
(2)2x8'S	10'-2"	7'-2"	5'-10"	
(2)2x10'S	12'-5"	8'-9"	7'-2"	
(2)2x12'S	14'-4"	10'-2"	8'-5"	
(2)2x8'S	11'-4"	8'-3"	6'-9"	
(2)2x10'S	14'-4"	10'-1"	8'-5"	
(2)2x12'S	*	11'-9"	9'-7"	
(2)2x4'S	2'-10"	2'-1"	1'-8"	
(2)2x6'S	4'-4"	3'-11"	2'-6"	
(2)2x8'S	5'-4"	5'-11"	3'-5"	
(2)2x10'S	6'-6"	4'-9"	3'-11"	
(2)2x12'S	7'-6"	5'-6"	4'-7"	
(2)2x8'S	8'-8"	4'-10"	4'-0"	
(2)2x10'S	8'-11"	6'-0"	4'-11"	
(2)2x12'S	9'-5"	5'-8"	5'-8"	
(2)2x8'S	9'-4"	6'-10"	5'-9"	
(2)2x10'S	10'-4"	8'-10"	6'-7"	
(2)2x12'S	10'-10"	8'-10"	6'-7"	

NOTE: 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)2x4'S	4'-2"	2
(2)2x6'S	5'-6"	2
(2)2x8'S	6'-1"	3
(2)2x10'S	6'-8"	3
(2)2x12'S	7'-1"	3
(3)2x8'S	7'-5"	3
(3)2x10'S	8'-3"	3
(3)2x12'S	8'-8"	3
(4)2x8'S	8'-7"	3
(4)2x10'S	9'-6"	3
(4)2x12'S	10'-0"	4

NOTE: BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE POINTED, THE SPANS ARE PERMITTED TO BE INTERPOLATED.

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

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

HEADER SUPPORTING	SPAN (ft.)	ROOF SPAN (ft.)						
		12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET	
2	3'	4.5'	5'	6.5'	5'	6.5'	5'	6.5'
4	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
14	2	2	2	2	2	2	2	2
16	2	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
6	2	2	2	2	2	2	2	2
8	2	2	1	1	1	1	1	1
10	2	2	1	1	1	1	1	1
12	3	2	2	2	2	2	2	2
14	3	2	2	2	2	2	2	2
16	4	3	2	2	2	2	2	2
18	4	3	2	2	2	2	2	2

NOTE: BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE POINTED, THE SPANS ARE PERMITTED TO BE INTERPOLATED.

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

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

SHEATHING LOCATION	STUD COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	MAX. NAIL SPAC. FOR BD (INCHES, O.C.)	E	F
INTERIOR ZONE	6"	6"	12	12
PERIMETER EDGE ZONE	6"	6"	12	12
130 MPH WINDS-EXPOSURE "B" (TPF)	6"	6"	12	12

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

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

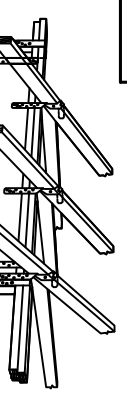
SHEATHING LOCATION	STUD COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	MAX. NAIL SPAC. FOR BD (INCHES, O.C.)	E	F
INTERIOR ZONE	6"	6"	12	12
PERIMETER EDGE ZONE	6"	6"	12	12
130 MPH WINDS-EXPOSURE "B" (TPF)	6"	6"	12	12

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

BOTTOM PLATE TO END ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)
UPLIFT LOADS	1-3 STORES	28

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

BOTTOM PLATE TO END ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)
SHEAR LOADS	1-3 STORES	30



MSTAM 36 REQUIRED @ HEADER OPENINGS TOP AND BOTTOM

MSTAM36 DETAIL

NTS

TOP PLATE TO RAFTER DETAIL



SIMPSON STRONG-TIE #1TS16

NTS

STUD TO TOP PLATE DETAIL



SIMPSON STRONG-TIE #SP2

NTS

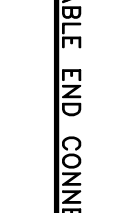
STUD TO SOLE PLATE DETAIL



SIMPSON STRONG-TIE #SP1

NTS

TYPICAL GABLE END CONNECTORS



SIMPSON H8 @ TOP OF EACH STUD IN GABLE END WALLS

SIMPSON LSTA 18 @ BOTTOM OF EACH STUD TO STUD IN GABLE END WALLS

NTS

UPLIFT CONNECTIONS-130MPH WINDS EXP. "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	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

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

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

WALL ASSEMBLY TO WALL ASSEMBLY:
STORY TO STORY