	6			WOOD SHEAR WALL SCHEDULE					5					
											Bottom attachr (founda	nent		
Shear wall	Sheathing material	Panel thickness	Blocking	Minimum fastener penefration in framing member or blocking	Fastener type and size	Panel edge fastener spacing	Nominal unit shear capacity vw	Hold-down anchor capacity	Hold down studs	Hold down anchor type	Number of bolts (1 in diameter, 4 inch embedment depth)	Bolf spacing	Bottom plate attachment (floor to floor)	
SW_N3A	Wood structural panels – sheathing	(in) 3/8	YES	(in) 1-3/8	8d	(in) 4	(plf)	(kip)	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 25 in. o/c; 30 fasteners in 2 rows.	
SW_N3B	Wood structural panels –	3/8	NO	1-3/8	8d	6	560	-	_	-	_	_	16d (d= 0.268 in) nails at 24 in. o/c;	
SW_N3C	sheathing	3/8	NO	1-3/8	8d	6	560	_		_	_		16 fasteners in 1 row. 16d (d= 0.268 in) nails at 21 in. o/c;	
SW_N3D	sheathing	3/8	YES	1-3/8	8d	4	840	2	(1)	Simpson HDU4-SDS2.5			35 fasteners in 2 rows. wood screws 20 (d= 0.32 in) at 25 in. o/c; 30	
	sheathing												fasteners in 2 rows. wood screws 20 (d= 0.32 in) at 14 in. o/c;	
SW_N2A	sheathing Wood structural panels –	19/32	YES	1-1/2	10d	4	1430	4	(2)	Simpson HDU4-SDS2.5	-	-	52 fasteners in 2 rows.	
SW_N2B	sheathing	19/32	YES	1-1/2	10d	6	950	-	-	-	-	-	16d (d= 0.268 in) nails at 13 in. o/c; 28 fasteners in 1 row.	
SW_N2C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	1	(1)	Simpson HDU4-SDS2.5	-	-	16d (d= 0.268 in) nails at 12 in. o/c; 59 fasteners in 2 rows.	
SW_N2D	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	4	1430	4	(2)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 14 in. o/c; 52 fasteners in 2 rows.	
SW_N1A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	7	(3)	Simpson HDU11-SDS2.5	10	36	SDWS log screw (d= 0.197 in) at 12 in. o/c; 58 fasteners in 2 rows.	
SW_N1B	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	-	-	-	11	36	16d (d= 0.268 in) nails at 19 in. o/c; 39 fasteners in 2 rows.	
SW_N1C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	3	(1)	Simpson HDU4-SDS2.5	11	36	wood screws 20 (d= 0.32 in) at 19 in. o/c; 40 fasteners in 2 rows.	
SW_N1D	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	7	(3)	Simpson HDU11-SDS2.5	10	36	SDWS log screw (d= 0.197 in) at 12 in. o/c; 60 fasteners in 2 rows.	
SW_S3A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	2	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 21 in. o/c; 36 fasteners in 2 rows.	
SW_S3B	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	2	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 21 in. o/c; 36 fasteners in 2 rows.	
SW_S2A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	6	(2)	Simpson HDU11-SDS2.5	-	-	SDWS log screw (d= 0.197 in) at 13 in. o/c; 54 fasteners in 2 rows.	
SW_S2B	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	6	(2)	Simpson HDU11-SDS2.5	-	-	SDWS log screw (d= 0.197 in) at 13 in. o/c; 54 fasteners in 2 rows.	
SW_S1A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	10	36	SDWS log screw (d= 0.197 in) at 8 in. o/c; 76 fasteners in 2 rows.	
SW_S1B	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	10	36	SDWS log screw (d= 0.197 in) at 8 in. o/c; 76 fasteners in 2 rows.	
SW_E3A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	4	1430	3	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 16 in. o/c; 46 fasteners in 2 rows.	
SW_E3B	Wood structural panels –	3/8	NO	1-3/8	8d	6	560	-	_	-	_	-	16d (d= 0.268 in) nails at 12 in. o/c; 30 fasteners in 1 row.	
SW_E3C	Wood structural panels –	19/32	YES	1-1/2	10d	4	1430	6	(2)	Simpson	_	_	SDWS log screw (d= 0.197 in) at 15 in. o/c; 32	
SW_E2A	sheathing Wood structural panels –	19/32	YES	1-1/2	10d	3	1860	7	(3)	HDU11-SDS2.5 Simpson			fasteners in 2 rows. SDWS log screw (d= 0.197 in) at 11 in. o/c; 64	
_	sheathing									HDU11-SD\$2.5			fasteners in 2 rows. 16d (d= 0.268 in) nails at 14 in. o/c;	
SW_E2B	sheathing Wood structural panels –	3/8	NO	1-3/8	8d	6	560	1	(1)	Simpson HDU4-SDS2.5	-	-	51 fasteners in 2 rows. SDWS log screw (d= 0.197 in) at 9 in. o/c; 54	
SW_E2C	sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	-	-	fasteners in 2 rows.	
SW_E1A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	13	(4)	Simpson HD19	7	36	SDWS log screw (d= 0.197 in) at 7 in. o/c; 64 fasteners in 2 rows.	
SW_E1B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	11	36	16d (d= 0.268 in) nails at 32 in. o/c; 12 fasteners in 1 row.	
SW_E1C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	9	(3)	Simpson HD19	11	36	SDWS log screw (d= 0.197 in) at 10 in. o/c; 72 fasteners in 2 rows.	
SW_W3A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	4	1430	3	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 16 in. o/c; 46 fasteners in 2 rows.	
SW_W3B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	-	-	16d (d= 0.268 in) nails at 12 in. o/c; 30 fasteners in 1 row.	
SW_W3C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	4	1430	6	(2)	Simpson HDU11-SDS2.5	-	-	SDWS log screw (d= 0.197 in) at 15 in. o/c; 32 fasteners in 2 rows.	
SW_W2A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	7	(3)	Simpson HDU11-SDS2.5	-	-	SDWS log screw (d= 0.197 in) at 11 in. o/c; 64 fasteners in 2 rows.	
SW_W2B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	1	(1)	Simpson HDU4-SDS2.5	-	-	16d (d= 0.268 in) nails at 14 in. o/c; 51 fasteners in 2 rows.	
SW_W2C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	-	-	SDWS log screw (d= 0.197 in) at 9 in. o/c; 54 fasteners in 2 rows.	
SW_W1A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	13	(4)	Simpson HD19	9	30	SDWS log screw (d= 0.197 in) at 7 in. o/c; 64 fasteners in 2 rows.	
SW_W1B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	11	36	16d (d= 0.268 in) nails at 32 in. o/c; 12 fasteners in 1 row.	
SW_W1C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	9	(3)	Simpson HD19	11	36	SDWS log screw (d= 0.197 in) at 10 in. o/c; 72 fasteners in 2 rows.	
SW_EC3A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	0	-	-	-	-	16d (d= 0.268 in) nails at 18 in. o/c; 42 fasteners in 2 rows.	
SW_EC3B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	-	-	16d (d= 0.268 in) nails at 60 in. o/c; 7 fasteners in 1 row.	
SW_EC3C	Wood structural panels –	19/32	YES	1-1/2	10d	6	950	3	(1)	Simpson HDU4-SDS2.5	-	_	wood screws 20 (d= 0.32 in) at 19 in. o/c; 40 fasteners in 2 rows.	
SW_EC2A	Wood structural panels –	19/32	YES	1-1/2	10d	3	1860	2	(1)	Simpson HDU4-SDS2.5	_	_	wood screws 20 (d= 0.32 in) at 21 in. o/c;	
SW_EC2B	sheathing	3/8	NO	1-3/8	8d	6	560		-		_	_	36 fasteners in 2 rows. 16d (d= 0.268 in) nails at 32 in. o/c; 12	
	sheathing									Simpson		-	sDWS log screw (d= 0.197 in) at 12 in. o/c; 50	
SW_EC2C	sheathing Wood structural panels –	19/32	YES	1-1/2	10d	3	1860	6	(2)	HDU11-SD\$2.5	-	-	fasteners in 2 rows. SDWS log screw (d= 0.197 in) at 9 in. o/c; 42	
SW_EC1A	sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	6	36	fasteners in 2 rows.	
SW_EC1B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	11	36	16d (d= 0.268 in) nails at 22 in. o/c; 17 fasteners in 1 row.	
SW_EC1C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	11	36	SDWS log screw (d= 0.197 in) at 9 in. o/c; 82 fasteners in 2 rows.	
SW_WC3A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	0	-	-	-	-	16d (d= 0.268 in) nails at 18 in. o/c; 42 fasteners in 2 rows.	
SW_WC3B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	0	560	-	-	-	-	-	16d (d= 0.268 in) nails at 60 in. o/c; 7 fasteners in 1 row.	
sw_wc3c	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	6	950	3	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 19 in. o/c; 40 fasteners in 2 rows.	
SW_WC2A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	2	(1)	Simpson HDU4-SDS2.5	-	-	wood screws 20 (d= 0.32 in) at 21 in. o/c; 36 fasteners in 2 rows.	
SW_WC2B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	-	-	16d (d= 0.268 in) nails at 32 in. o/c; 12 fasteners in 1 row.	
SW_WC2C	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	3	1860	6	(2)	Simpson HDU11-SDS2.5	-	-	SDWS log screw (d= 0.197 in) at 12 in. o/c; 58 fasteners in 2 rows.	
SW_WC1A	Wood structural panels – sheathing	19/32	YES	1-1/2	10d	2	2435	11	(4)	Simpson HD19	6	36	SDWS log screw (d= 0.197 in) at 9 in. o/c; 42 fasteners in 2 rows.	
SW_WC1B	Wood structural panels – sheathing	3/8	NO	1-3/8	8d	6	560	-	-	-	11	36	16d (d= 0.268 in) nails at 22 in. o/c; 17 fasteners in 1 row.	
	1.1	1.1	H .	11			I L	J L						

1. FLOOR SHEATHING TO BE TONGUE AND GROOVE APA RATED GLUED AND SCREWED TO FLOOR STRUCTURE--SIMPSON STRONG-TIE WSNTL FASTENERS AT 6" O.C. AT EDGE AND 6" O.C. AT FIELD 2. GYSUM CONCRETE TOPPING TO HAVE A MAXIMUM DENSITY OF 120 PCF 3. ALL WOOD POSTS/COLUMNS SHOULD ALIGN VERTICAL THROUGH ALL FLOORS, ALL THE WAY DOWN TO THE FOUNDATION AND/OR TOP OF **PRECAST**

4. EXTERIOR SHEATHING TO BE 1/2" APA RATED. UNLESS OTHERWISE NOTE, ATTACH SHEATHING W/ 10D - 6" O.C. AT EDGE AND 12 O.C. AT FIELD. NAILS TO HAVE 1 1/2" MIN. EMBED. 5. TRUSSES TO HAVE 2X6 STRONGBACK BRIDGING 10FT O.C. THAT RUNS THE ENTIRE LENGTH OF THE BUILDING. USE (3) 16D NAILS AT EACH VERTICAL TRUSS

6. UNLESS OTHERWISE NOTED, ALL HEADERS ARE DROPPED HEADERS PLACED AT THE TOP OF THE WALL OPENING. 7. UNLESS OTHERWISE NOTED, ALL VERTICAL MASONRY REINFORCING SHALL RUN THE FULL HEIGHT OF THE WALL AND BE CONTINIOUS THROUGH ALL

8. CORES TO BE GROUTED SOLD AT ALL MECHANICAL ANCHOR LOCATIONS.

WOOD	FRAMING

LAMINATED STRAND LUMBER (LSL)

 $E = 1.55 \times 10^6 \text{ psi}$

F_b= 2360 psi F_v = 410 psi

HORZ. BOND BEAMS.

F_{ct}= 875 psi (perpendicular to grain)

(perpendicular to grain)

LAMINATED VENEER LUMBER (LVL)

 $E = 2.0 \times 10^6 \text{ psi}$

F_b= 2900 psi

F_{ct}= 750 psi

 F_v = 285 psi

DIMENSIONAL LUMBER

WALL PLATES: SPRUCE-PINE-FIR No. 1 or better

WALL STUDS: SPRUCE-PINE-FIR No. 2 or better

POSTS/COLUMNS: SPRUCE-PINE-FIR No. 2 or better

FLOOR SHEATHING

CORRIDOR FLOOR SHEATHING (4X6 AT 32" O/C)

 OSB STRUCTURAL PANEL NOMINAL THICKNESS: 3/4" (BOTTOM LAYER) 19/32" (TOP LAYER) SPAN RATING: 20 OC

• BENDING F_bS = 575 LB-IN/FT OF WIDTH PLANAR SHARE F_s (LB/Q) = 205 LB/FT OF WIDTH FLOOR SHEATHING (TRUSSES AT 24" O/C) WOOD STRUCTURAL PANEL

 SPAN RATING = 48/24 BENDING F_bS = 1000 LB-IN/FT OF WIDTH PLANAR SHARE F_s (LB/Q) = 250 LB/FT OF WIDTH

 FLOOR SHEATHING (TRUSSES AT 12" O/C) WOOD STRUCTURAL PANEL SPAN RATING = 32/16 • BENDING $F_bS = 445 LB-IN/FT$ OF WIDTH

 ROOF SHEATHING (TRUSSES AT 24" O/C) WOOD STRUCTURAL PANEL SPAN RATING = 32/16

• BENDING $F_bS = 445 LB-IN/FT$ OF WIDTH PLANAR SHARE F_s (LB/Q) = 165 LB/FT OF WIDTH CORRIDOR ROOF SHEATHING (4X6 AT 32" O/C) WOOD STRUCTURAL PANEL

BENDING F_bS = 1000 LB-IN/FT OF WIDTH

 SPAN RATING = 48/24 PLANAR SHARE F_s (LB/Q) = 250 LB/FT OF WIDTH

PLANAR SHARE F_s (LB/Q) = 165 LB/FT OF WIDTH

		V	VOOD FRAMING	HEADER/POST SCHEDULE	
MARK	MATERIAL	WIDTH	DEPTH	BEARING	REMARKS
Facade headers (span < 3.5 feet)	LSL	3.50	7.25	"1 Jack stud(s) and 2 King studs on each side of the opening."	Applicable on any floor
First floor facade headers (3.5 < span < 7 feet)	LSL	3.50	14	"2 Jack stud(s) and 4 King studs on each side of the opening."	
Second floor facade headers (3.5 < span < 7 feet)	LSL	5.25	9.5	"2 Jack stud(s) and 4 King studs on each side of the opening."	
Third floor facade headers (3.5 < span < 7 feet)	LSL	1.75	11.875	"2 Jack stud(s) and 2 King studs on each side of the opening."	
First floor interior headers (3.5 < span < 10 feet)	LSL	5.25	16	"2 Jack stud(s) and 6 King studs on each side of the opening."	
Second floor interior headers (3.5 < span < 10 feet)	LSL	5.25	14	"2 Jack stud(s) and 6 King studs on each side of the opening."	
Third floor interior headers (3.5 < span < 10 feet)	LSL	3.5	14	"2 Jack stud(s) and 3 King studs on each side of the opening."	
Door headers (span < 4.0 feet)	LSL	5.25	14	"1 Jack stud(s) and 3 King studs on each side of the opening."	Applicable on any floor

	FRAMING SCHEDULE						
Count	Type Mark	Туре	Type Comments				
13	B1	(2)SISTERED 4X6 PINE	(3) 2x6 STUD COLUMN - (JOISTS ATTACHED WITH SIMPSON CJTZ CONCEALED HANGERSFOR FIRE PROTECTION)				
4	B2	LVL 3.5" X 14"	(AT ELEVATOR - NOTCH INTO CMU) - ((3) 2X6 COLUMN)				
3	В3	LVL 3.5" X 18"	(3) 2x6 STUD COLUMN				
1	B4	LVL 5.25" X 18"	(3) 2x6 STUD COLUMN				
2	B5	W12X87	SEE PLANS FOR COLUMNS				
1	В6	W21X50	SEE PLANS FOR COLUMNS				

BEARING WALL SCHEDULE							
		Stud dimensions	Spacing (in)	Top plates	Bottom plate	Truss spacing	Remarks
		(in)	(in)			(in)	
	1st floor	2x6	16	(2) 2x6	2x6	12/24	
Facade	2nd floor	2x6	16	(2) 2x6	2x6	12/24	
	3rd floor	2x6	19.2	(2) 2x6	2x6	24	
	1st floor	2x6	12	(2) 2x6	2x6	12/24	
	2nd floor	2x6	16	(2) 2x6	2x6	24	
Interior	2nd floor	2×6	12	(2) 2x6	2x6	12	AT S2A AND S2B
	3rd floor	2x6	16	(2) 2×6	2x6	24	

MATERIALS:
- STUDS SPRUCE-PIN-FIR (STUD GRADE OR BETTER)
- PLATES SPRUCE-PIN-FIR (#2 OR BETTER)

1 st FLOOR HOLD-DOWN SCHEDULE							
Shear wall ID Hold down studs		Hold down anchor type	CL (in)	Type (see key plan)			
SW_N1C	(1)	Simpson HDU4-SDS2.5	1 5/16	ı			
SW_N1A	(3)	Simpson HDU11-SDS2.5	1 3/8	II			
SW_E1C	(3)	Simpson HD19	2 1/8	III			
SW_W1C	(3)	Simpson HD19	2 1/8				
SW_E1A	(4)	Simpson HD19	2 1/8				
SW_EC1C	(4)	Simpson HD19	2 1/8				
SW_S1A	(4)	Simpson HD19	2 1/8				
SW_S1B	(4)	Simpson HD19	2 1/8	IV			
SW_W1A	(4)	Simpson HD19	2 1/8				
SW_WC1A	(4)	Simpson HD19	2 1/8				
SW_WC1C	(4)	Simpson HD19	2 1/8				

ALL RATED 1.55E OR GREATER









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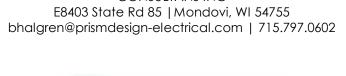


Structural Engineer of Record: Ennovation 4729 Dale-Curtain Dr, McFarland, WI 53558 kfrey@ennovationbuilt.com



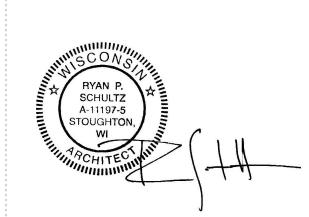








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Date	Description
08.15.2019	75% CD Set
08.21.2019	Permit
01.24.2020	Updates for Panelizer
02.07.2020	2nd Update for Panelizer
03.27.2020	Updates
05.15.2020	Permit Revision #4
07.02.2020	Permit Revision #5
07.15.2020	Permit Revision #6