

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS QUANTITY	DIA. (in.)	TOTAL WALL WEIGHT (lb.)
WSMH12x7	12	84	2	1	105
WSMH18x7	18	84	2	1	155
WSMH12x8	12	96	2	1	120
WSMH18x8	18	96	2	1	175
WSMH24x8	24	96	2	1	225
WSMH24x9	12	108	2	1	130
WSMH18x9	18	108	2	1	185
WSMH24x9	24	108	2	1	230
WSMH12x10	12	120	2	1	145
WSMH18x10	18	120	2	1	210
WSMH24x10	24	120	2	1	275
WSMH12x12	12	144	2	1	165
WSMH18x12	18	144	2	1	245
WSMH24x12	24	144	2	1	325
WSMH18x14	18	168	2	1	285
WSMH24x14	24	168	2	1	370
WSMH24x16	24	192	2	1	420
WSMH18x20	18	240	2	1	380
WSMH24x20	24	240	2	1	520

STRONG-WALL® WSMH MODELS

SINGLE STORY WSWH ON CONCRETE

WHEN WSMH-PS STRAPS OMITTED,
ALLOWABLE SHEAR VALUES FOR
STANDARD PANEL APPLY.

MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
MSM12x7 MSM18x7 MSM24x7	78"	5½" 6"	6'-1-1½" 7'-0"
MSM12x6 MSM18x6 MSM24x6	85½" 93¾"	0" 5½" 6"	7'-1½" 8'-2¾" 8'-3¾"

E WALL OPTION 2. DESIGNER SHALL DESIGN AND DETAIL RANSFER PLANE LOADING EFFECT OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

WSWH-TP CONNECTION		
MODEL NO.	FASTENER	QUANTITY
	SWS6150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

ALIGN WSM NOTCHES W OF TOP PL

SECTION 4x FRAMING SECTION 6x FRAMING (8x FRAMING SIMILAR)

OTHERS

SHIM BLOCK

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

THIS DETAIL IS NOT TO BE USED WITH THE PORTAL FRAME APPLICATION PLEASE REFER TO SHEET WSMH-4 FOR ALL ACCEPTABLE PORTAL FRAME DETAILS

FULL-HIGH ADJACENT FRAMING BY OTHERS

SEE 6/WSM2 FOR TOP CONNECTION

STRONG-WALL • HIGH STRENGTH WOOD SHEARWALL

1" TO 4" SHIM BLOCK

4x SHIM BLOCK

INSTALL SDS 1/2"x6" SCREWS (MIN.) FROM THE TOP SIDE OF THE PLATES PER QTY. AND SPACING REQUIREMENT DETAILED IN 6/WSM2.

SEE 6/WSM2 FOR TOP CONNECTION

FULL-HIGH ADJACENT FRAMING BY OTHERS

STRONG-WALL • HIGH STRENGTH WOOD SHEARWALL

CRIPPLE WALL

DESIGNER SHALL DESIGN AND DETAIL

SHEAR TRANSFER OUT-OF-PLANE LOADING EFFECT INCREASED OVERTURNING AND UPLIFT DUE TO ADDITIONAL HEIGHT

3" TO 12" BLOCK DEPTHS.

KAISER SAMPSON STRONG-TIE • C/S6 STRAPS AT 16" O.C. (EACH SIDE) USING 100k/1/2" NAILS

BLOCK HEIGHTS GREATER THAN 8" AND UP TO 10".

8 NAILS INTO BLOCK.

8 NAILS INTO WSMH PANEL.

BLOCK HEIGHTS GREATER THAN 10" AND UP TO 12".

8 NAILS INTO BLOCK.

8 NAILS INTO WSMH PANEL.

CRIPPLE SHEARWALL, BLOCKING AND STRAP BY OTHERS

WSMH-TP CONNECTOR		
MODEL NO.	FASTENER QUANTITY	
		SWS16150
WSMH-TP12	28	4
WSMH-TP18	52	8
WSMH-TP24	92	16

ATTACH WSMH-TP (PROVIDED)
WITH A COMBINATION OF
SDS25600 AND SMS16150
CONNECTOR SCREWS.

OPTIONAL 1" -
DIAMETER BY 1/4"
DEEP COUNTERBORE

QTY. OF SDS $\frac{1}{4}$ "x6" SCREWS REQ'D.	
WSWH12	4
WSWH18	8
WSWH24	16

DESIGNER IS PROVIDING DETAILS FOR S

EDGE DISTANCE FOR SCREWS		
SLOPE	A (in.)	B (in.)
1:12-4:12	2	3
1:12-8:12	1½	4½
1:12-12:12	1½	5½

MAINTAIN END DISTANCES TO PREVENT SCREWS FROM PENETRATING THROUGH THE OUTER EDGES. INSTALL SCREWS PERPENDICULAR TO THE TOP PLATE.

[illegible]

SDS SCREW SPACING

DOUBLE TOP PLATES

SIMPSON STRONG-TIE®

SECTION VIEW
2X6 OR WIDER FRAMING

INSTALLATION NOTES :

ACTUAL CUT LENGTH (L) MUST BE GREATER THAN
 EQUAL TO PANEL WIDTH (W)

THIS DETAIL APPLICABLE FOR SLOPES UP TO 12:12

PANELS RATHER THAN 12 MUST BE DESIGNED FOR
 THE APPLICATION.

The diagrams illustrate the required panel dimensions for different slope applications. The left diagram shows a panel of width W and length L installed on a slope. The right diagram shows a panel of width W and length L installed on a slope, with the formula $L = W(MIN)$ indicated.

NO.	DATE	REVISIONS
0	11-20-2020	FIRST RELEASE - 2018 IBC
1	03-16-2021	2021 IBC REVISIONS
2	08-27-2023	UPDATED DETAIL 5
3	07-12-2024	UPDATED DETAIL 6,8,10
4	02-03-2026	UPDATED DETAIL 10