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LAWSON

INDUSTRIES, INC.

AUG 26, 2002

QUALITY MANUFACTURER OF ALUMINUM
WINDOWS AND SLIDING GLASS DOORS

8501 N.W. 90TH STREET
MEDLEY, FLORIDA 33166

2115 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426

(ROUGH OPENING CHART)

WINDOW DESIGNATION FOR 1100 AWNING 7500 SINGLE HUNG	BLOCK CONSTRUCTION MASONRY PRECAST OPENING		WOOD FRAME CONSTRUCTION	
	WIDTH	HEIGHT	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT
1917	20	X 17	19 1/4	X 17 1/4
12		X 26		X 26 1/4
13		X 38 3/8		X 38 5/8
14		X 50 5/8		X 50 7/8
15		X 63		X 63 1/4
16		X 74 1/4		X 74 1/2
2617	27 3/8	X 17	26 5/8	X 17 1/4
1H2		X 26		X 26 1/4
1H3		X 38 3/8		X 38 5/8
1H4		X 50 5/8		X 50 7/8
1H4/5		X 58		X 58 1/4
1H5		X 63		X 63 1/4
1H6		X 74 1/4		X 74 1/2
3717	37 7/8	X 17	37 1/8	X 17 1/4
22		X 26		X 26 1/4
23		X 38 3/8		X 38 5/8
24		X 50 5/8		X 50 7/8
24/5 Egress		X 58		X 58 1/4
25		X 63		X 63 1/4
26		X 74 1/4		X 74 1/2
5317	54	X 17	53 1/4	X 17 1/4
32		X 26		X 26 1/4
33		X 38 3/8		X 38 5/8
34		X 50 5/8		X 50 7/8
34/5 Egress		X 58		X 58 1/4
35		X 63		X 63 1/4
36		X 74 1/4		X 74 1/2

19 1/8

26 1/2

37

53 1/8

OPENING FORMULAS FOR MULTIPLE WINDOWS

BLOCK CONSTRUCTION

- All Windows:** (1) Total Flange Dimension (Tip to Tip) of each window used
(2) Add 1/8" for each Mull used
(3) Add 7/8" for Clearance (one time)

EXAMPLE: 4 SH-25 Muller Together

(1) $4 \times 37 = 148$

(2) $3 \times 1/8" = 3/8$

149 3/8" Block to Block

WOOD CONSTRUCTION

- All Windows:** (1) Total Flange Dimensions (Tip to Tip) of each window used
(2) Add 1/8" for each Mull used
(3) Add 1/8" for Clearance

EXAMPLE: 4/25 Muller Together

(1) $4 \times 37 = 148$

(2) $3 \times 1/8" = 3/8$

(3) Clearance = $\frac{1}{8}$



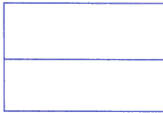
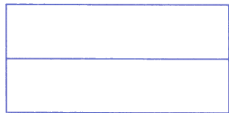









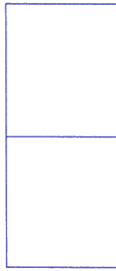

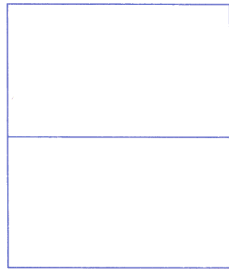


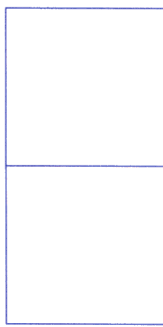
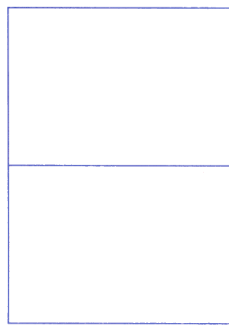
148 1/2" Wood to Wood

Note: Masonry opening is measured from top of lip of concrete precast to bottom of lintel. For poured sills, add 1" to opening height. Any stacked windows verify openings with salesperson.

SINGLE HUNG WINDOWS



WINDOW WIDTH	19 ⁷ / ₈ "	26 ¹ / ₂ "	37"	53 ¹ / ₈ "
MASONRY OPENING	19 ⁷ / ₈ "	27 ¹ / ₄ "	37 ³ / ₄ "	53 ⁷ / ₈ "
FRAME OPENING	19 ¹ / ₄ "	26 ⁵ / ₈ "	37 ¹ / ₈ "	53 ¹ / ₄ "

26"	26"	26 ¹ / ₄ "				
			12	H32	22	32
38 ³ / ₈ "	38 ³ / ₈ "	38 ⁵ / ₈ "				
			13	H33	23	33
50 ⁵ / ₈ "	50 ⁵ / ₈ "	50 ⁷ / ₈ "				
			14	H34	24	34
63	63	63 ¹ / ₄ "				
			15	H35	25	35
74 ¹ / ₄ "	74 ¹ / ₄ "	74 ¹ / ₂ "				
			16	H36	26	36

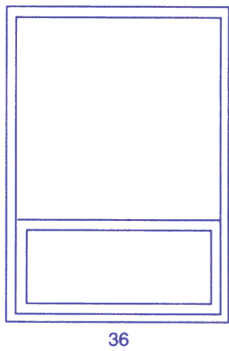
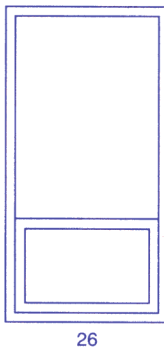
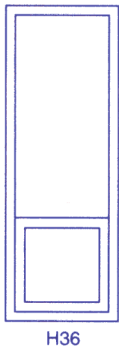
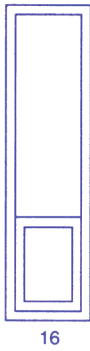
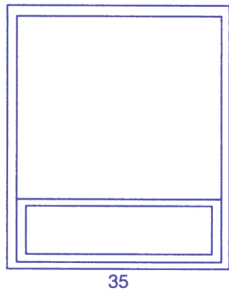
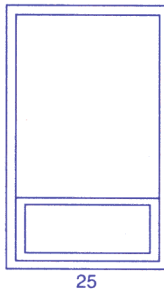
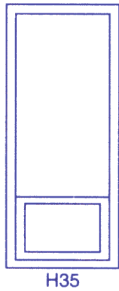
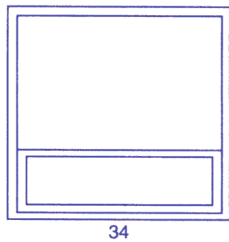
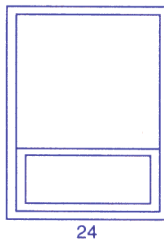
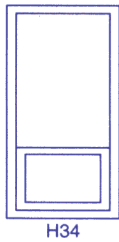
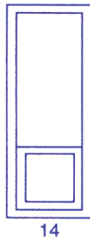
WINDOW HEIGHT
MASONRY OPENING
FRAME OPENING

**VIEW
SINGLE HUNG
WINDOW**



WINDOW WIDTH	19 ¹ / ₈ "	26 ¹ / ₂ "	37"	53 ¹ / ₈ "
MASONRY OPENING	19 ⁷ / ₈ "	27 ¹ / ₄ "	37 ³ / ₄ "	53 ⁷ / ₈ "
WOOD FRAME OPENING	19 ¹ / ₄ "	26 ⁵ / ₈ "	37 ¹ / ₈ "	53 ¹ / ₄ "

50 ⁵ / ₈ "	50 ⁵ / ₈ "	50 ⁷ / ₈ "
63"	63"	63 ¹ / ₄ "
74 ¹ / ₄ "	74 ¹ / ₄ "	74 ¹ / ₂ "
WINDOW HEIGHT	MASONRY OPENING	WOOD FRAME OPENING

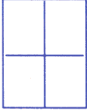
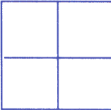

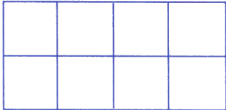
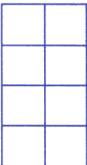

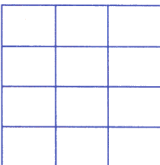
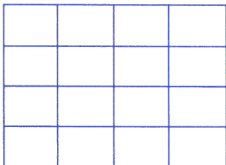


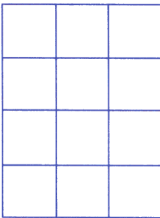
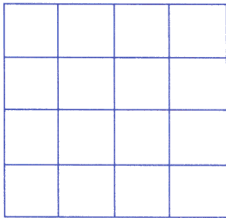


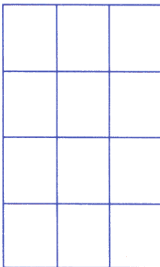
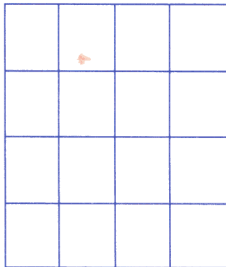


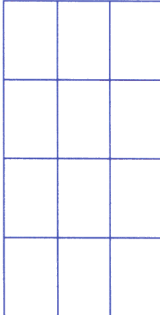
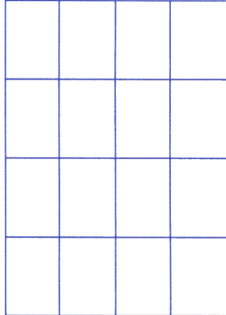


CUSTOM SIZES AVAILABLE REMOVABLE SASH TRUE OR FALSE COLONIAL BLOCK AND TACKLE BALANCE

SINGLE HUNG COLONIAL

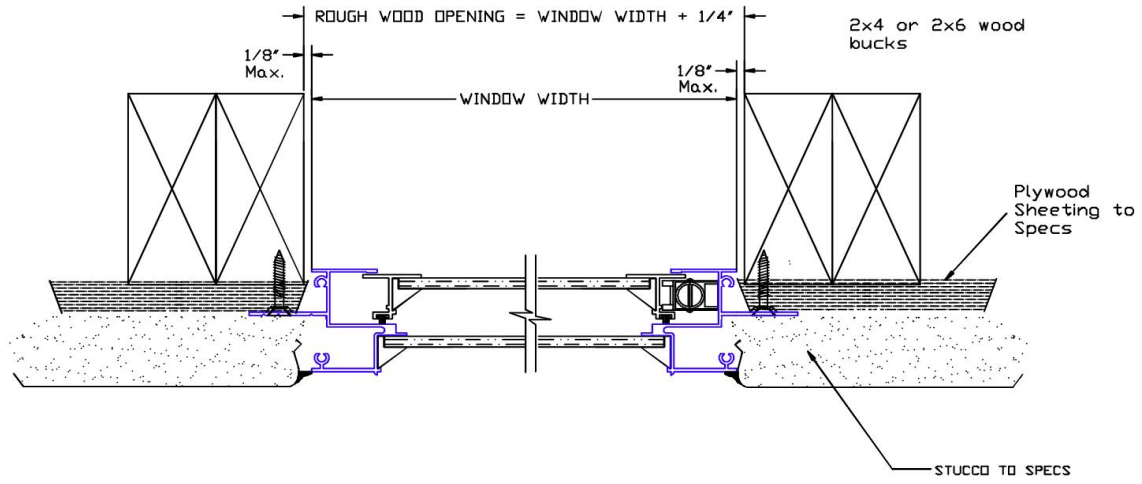


WINDOW WIDTH	19 ¹ / ₈ "	26 ¹ / ₂ "	37"	53 ¹ / ₈ "
MASONRY OPENING	19 ⁷ / ₈ "	27 ¹ / ₄ "	37 ³ / ₄ "	53 ⁷ / ₈ "
WOOD FRAME OPENING	19 ¹ / ₄ "	26 ⁵ / ₈ "	37 ¹ / ₈ "	53 ¹ / ₄ "

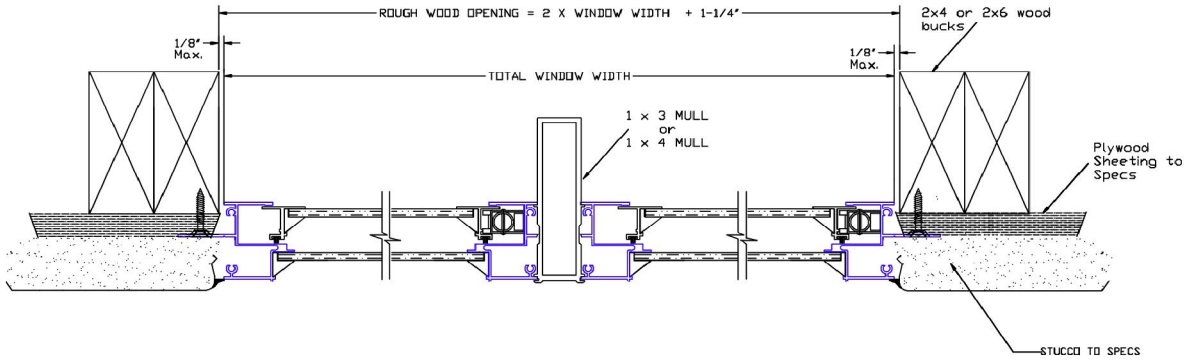
26"	26"	26 ¹ / ₄ "				
			12	H32	22	32
38 ³ / ₈ "	38 ³ / ₈ "	38 ⁵ / ₈ "				
			13	H33	23	33
50 ⁵ / ₈ "	50 ⁵ / ₈ "	50 ⁷ / ₈ "				
			14	H34	24	34
63	63	63 ¹ / ₄ "				
			15	H35	25	35
74 ¹ / ₄ "	74 ¹ / ₄ "	74 ¹ / ₂ "				
			16	H36	26	36

WINDOW HEIGHT
MASONRY OPENING
WOOD FRAME OPENING

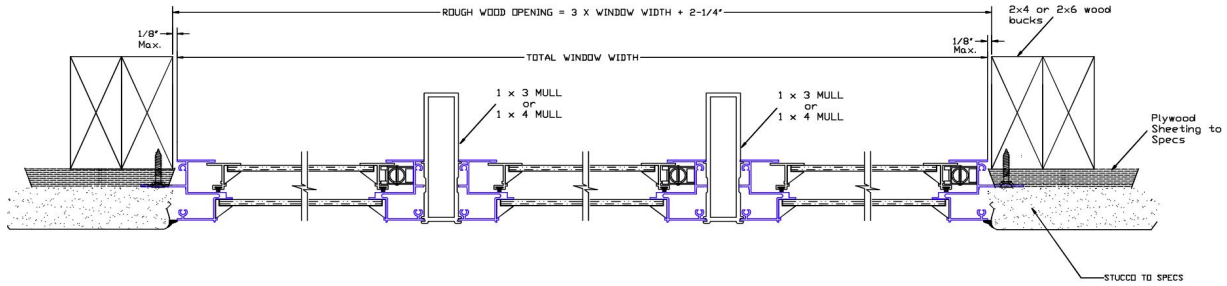
CUSTOM SIZES AVAILABLE REMOVABLE SASH TRUE OR FALSE COLONIAL BLOCK AND TACKLE BALANCE



SH CODE SIZE	FRAME SIZE		ROUGH WOOD OPENING	
	WIDTH	HEIGHT	WIDTH	HEIGHT
12	18.125	25.000	18.375	25.250
13	18.125	37.375	18.375	37.625
14	18.125	49.625	18.375	49.875
145	18.125	57.000	18.375	57.250
15	18.125	62.000	18.375	62.250
16	18.125	73.250	18.375	73.500
H32	25.500	25.000	25.750	25.250
H33	25.500	37.375	25.750	37.625
H34	25.500	49.625	25.750	49.875
H345	25.500	57.000	25.750	57.250
H35	25.500	62.000	25.750	62.250
H36	25.500	73.250	25.750	73.500
22	36.000	25.000	36.250	25.250
23	36.000	37.375	36.250	37.625
24	36.000	49.625	36.250	49.875
245	36.000	57.000	36.250	57.250
25	36.000	62.000	36.250	62.250
26	36.000	73.250	36.250	73.500
32	52.125	25.000	52.375	25.250
33	52.125	37.375	52.375	37.625
34	52.125	49.625	52.375	49.875
345	52.125	57.000	52.375	57.250
35	52.125	62.000	52.375	62.250
36	52.125	73.250	52.375	73.500
2020	23.000	23.000	23.250	23.250
2620	29.000	23.000	29.250	23.250
3020	35.000	23.000	35.250	23.250
3620	41.000	23.000	41.250	23.250
4020	47.000	23.000	47.250	23.250
2030	23.000	35.000	23.250	35.250
2630	29.000	35.000	29.250	35.250
3030	35.000	35.000	35.250	35.250
3630	41.000	35.000	41.250	35.250
4030	47.000	35.000	47.250	35.250
2040	23.000	47.000	23.250	47.250
2640	29.000	47.000	29.250	47.250
3040	35.000	47.000	35.250	47.250
3640	41.000	47.000	41.250	47.250
4040	47.000	47.000	47.250	47.250
2050	23.000	59.000	23.250	59.250
2650	29.000	59.000	29.250	59.250
3050	35.000	59.000	35.250	59.250
3650	41.000	59.000	41.250	59.250
4050	47.000	59.000	47.250	59.250
2060	23.000	71.000	23.250	71.250
2660	29.000	71.000	29.250	71.250
3060	35.000	71.000	35.250	71.250
3660	41.000	71.000	41.250	71.250
4060	47.000	71.000	47.250	71.250



SH CODE SIZE	FRAME SIZE		ROUGH WOOD OPENING	
	WIDTH	HEIGHT	WIDTH	HEIGHT
12	18.125	25.000	37.500	25.500
13	18.125	37.375	37.500	37.875
14	18.125	49.625	37.500	50.125
145	18.125	57.000	37.500	57.500
15	18.125	62.000	37.500	62.500
16	18.125	73.250	37.500	73.750
H32	25.500	25.000	52.250	25.500
H33	25.500	37.375	52.250	37.875
H34	25.500	49.625	52.250	50.125
H345	25.500	57.000	52.250	57.500
H35	25.500	62.000	52.250	62.500
H36	25.500	73.250	52.250	73.750
22	36.000	25.000	73.250	25.500
23	36.000	37.375	73.250	37.875
24	36.000	49.625	73.250	50.125
245	36.000	57.000	73.250	57.500
25	36.000	62.000	73.250	62.500
26	36.000	73.250	73.250	73.750
32	52.125	25.000	105.500	25.500
33	52.125	37.375	105.500	37.875
34	52.125	49.625	105.500	50.125
345	52.125	57.000	105.500	57.500
35	52.125	62.000	105.500	62.500
36	52.125	73.250	105.500	73.750
2020	23.000	23.000	47.250	23.500
2620	29.000	23.000	59.250	23.500
3020	35.000	23.000	71.250	23.500
3620	41.000	23.000	83.250	23.500
4020	47.000	23.000	95.250	23.500
2030	23.000	35.000	47.250	35.500
2630	29.000	35.000	59.250	35.500
3030	35.000	35.000	71.250	35.500
3630	41.000	35.000	83.250	35.500
4030	47.000	35.000	95.250	35.500
2040	23.000	47.000	47.250	47.500
2640	29.000	47.000	59.250	47.500
3040	35.000	47.000	71.250	47.500
3640	41.000	47.000	83.250	47.500
4040	47.000	47.000	95.250	47.500
2050	23.000	59.000	47.250	59.500
2650	29.000	59.000	59.250	59.500
3050	35.000	59.000	71.250	59.500
3650	41.000	59.000	83.250	59.500
4050	47.000	59.000	95.250	59.500
2060	23.000	71.000	47.250	71.500
2660	29.000	71.000	59.250	71.500
3060	35.000	71.000	71.250	71.500
3660	41.000	71.000	83.250	71.500
4060	47.000	71.000	95.250	71.500



SH CODE SIZE	FRAME SIZE		ROUGH WOOD OPENING	
	WIDTH	HEIGHT	WIDTH	HEIGHT
12	18.125	25.000	56.625	25.500
13	18.125	37.375	56.625	37.875
14	18.125	49.625	56.625	50.125
145	18.125	57.000	56.625	57.500
15	18.125	62.000	56.625	62.500
16	18.125	73.250	56.625	73.750
H32	25.500	25.000	78.750	25.500
H33	25.500	37.375	78.750	37.875
H34	25.500	49.625	78.750	50.125
H345	25.500	57.000	78.750	57.500
H35	25.500	62.000	78.750	62.500
H36	25.500	73.250	78.750	73.750
22	36.000	25.000	110.250	25.500
23	36.000	37.375	110.250	37.875
24	36.000	49.625	110.250	50.125
245	36.000	57.000	110.250	57.500
25	36.000	62.000	110.250	62.500
26	36.000	73.250	110.250	73.750
32	52.125	25.000	158.625	25.500
33	52.125	37.375	158.625	37.875
34	52.125	49.625	158.625	50.125
345	52.125	57.000	158.625	57.500
35	52.125	62.000	158.625	62.500
36	52.125	73.250	161.625	73.750
2020	23.000	23.000	71.250	23.500
2620	29.000	23.000	89.250	23.500
3020	35.000	23.000	107.250	23.500
3620	41.000	23.000	125.250	23.500
4020	47.000	23.000	143.250	23.500
2030	23.000	35.000	71.250	35.500
2630	29.000	35.000	89.250	35.500
3030	35.000	35.000	107.250	35.500
3630	41.000	35.000	125.250	35.500
4030	47.000	35.000	143.250	35.500
2040	23.000	47.000	71.250	47.500
2640	29.000	47.000	89.250	47.500
3040	35.000	47.000	107.250	47.500
3640	41.000	47.000	125.250	47.500
4040	47.000	47.000	143.250	47.500
2050	23.000	59.000	71.250	59.500
2650	29.000	59.000	89.250	59.500
3050	35.000	59.000	107.250	59.500
3650	41.000	59.000	125.250	59.500
4050	47.000	59.000	143.250	59.500
2060	23.000	71.000	71.250	71.500
2660	29.000	71.000	89.250	71.500
3060	35.000	71.000	107.250	71.500
3660	41.000	71.000	125.250	71.500
4060	47.000	71.000	143.250	71.500