



DOUBLE-HUNG

SPECIAL SIZE FRAME DIMENSIONS

Miscellaneous Formulas



1-WIDE VENT UNIT	2-WIDE VENT UNIT COMPOSITE	3-WIDE VENT UNIT COMPOSITE
<p>MINIMUM 14-1/2" W x 23-1/2" H (368 x 597) 28-1/2" H (724) Cottage and Contemporary EQUAL SASH MAXIMUM 48 Ft² (4.46m²) 54" W x 78" H (1 372 x 1 981) COTTAGE SASH MAXIMUM 54" W x 65-1/2" H (1 372 x 1 664) CONTEMPORARY SASH MAXIMUM 54" W x 65-1/2" H (1 372 x 1 664)</p>	<p>MINIMUM 29-1/2" W x 23-1/2" H (749 x 597) 28-1/2" H (724) Cottage and Contemporary EQUAL SASH MAXIMUM 72 Ft² (4.46m²) 108" W x 78" H (2 743 x 1 981) COTTAGE SASH MAXIMUM 108" W x 65-1/2" H (2 743 x 1 664) CONTEMPORARY SASH MAXIMUM 108" W x 65-1/2" H (2 743 x 1 664)</p>	<p>MINIMUM 44-1/2" W x 23-1/2" H (1 130 x 597) 28-1/2" H (724) Cottage and Contemporary EQUAL SASH MAXIMUM 72 Ft² (4.46m²) 112" W x 78" H (2 845 x 1 981) COTTAGE SASH MAXIMUM 112" W x 65-1/2" H (2 845 x 1 664) CONTEMPORARY SASH MAXIMUM 112" W x 65-1/2" H (2 845 x 1 664)</p>

General Notes:

- Rough Opening–Frame Dimension + 1/2"
- Keep frame dimensions to the nearest 1/8" increment
- Maximum frame area = 48 ft²
- 2-Wide and 3-Wide units are composites with multiple windows in one frame with integral mullions

Miscellaneous Formulas

	Standard Performance Actual Glass Width	Actual Glass Height		Standard Performance Visible Glass Width	Performance Upgrade Visible Glass Width	Visible Glass Height
		Lower Glass	Upper Glass			
1-WIDE	Vent-equal		(FH - 5-5/8) / 2	(FH - 5-5/8) / 2		
	Cottage	FW - 5-1/4"	(FH - 5-5/8) X .6	(FH - 5-5/8) X .4	AGW - 1-1/8"	FW - 3-15/16"
	Contemporary		(FH - 5-5/8) X .4	(FH - 5-5/8) X .6		
2-WIDE	Vent-equal		(FH - 5-5/8) / 2	(FH - 5-5/8) / 2		
	Cottage	(FW / 2) - 5-1/2"	(FH - 5-5/8) X .6	(FH - 5-5/8) X .4	AGW - 1-1/8"	AGH - 1-1/8"
	Contemporary		(FH - 5-5/8) X .4	(FH - 5-5/8) X .6		
3-WIDE	Vent-equal		(FH - 5-5/8) / 2	(FH - 5-5/8) / 2		
	Cottage	(FW / 3) - 5-19/32"	(FH - 5-5/8) X .6	(FH - 5-5/8) X .4	AGW - 1-1/8"	AGH - 1-1/8"
	Contemporary		(FH - 5-5/8) X .4	(FH - 5-5/8) X .6		

Clear Opening Formulas

	COW	COH Equal Vent	COH Cottage Vent	COH Contemporary Vent
CLEAR OPENING WITH CAM LOCK		(FH / 2) - 4.375	FH - ALGH - 7.187	FH - AUGH - 4.854
CLEAR OPENING WITH AUTO LOCK	Frame Width - 4.76	(FH / 2) - 5.25	FH - ALGH - 8.062	FH - AUGH - 4.854
CLEAR OPENING WITH OPTIONAL MAXIMUM OPENING HARDWARE		(FH / 2) - 3.000	NA	NA

Max Opening Hardware Requirements:

- Unit must be standard performance
- Must not have limited opening hardware
- Unit must have equal sash split
- Frame width must be ≥ 29.5
- Frame height must be ≥ 55.5
- Frame height must be ≤ 72

Clear Opening Area (ft²) = (COW x COH) / 144
 Frame Area (ft²) = (Frame Width x Frame Height) / 144

KEY:

- AGW = Actual Glass Width
- ALGH = Actual Lower Glass Height
- AUGH = Actual Upper Glass Height
- FW = Frame Width
- FH = Frame Height
- VGW = Visible Glass Width
- VGH = Visible Glass Height
- COW = Clear opening width
- COH = Clear opening height



DOUBLE-HUNG

SIZE TABLES

Single Units - Equal Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"
(762) (749)										
(914) (902)										
(965) (953)										
(1 067) (1 054)										
(1 168) (1 156)										
(1 219) (1 207)										
(1 270) (1 257)										
(1 372) (1 359)										
(1 473) (1 461)										
	1-6/4-10	2-0/4-10	2-4/4-10	2-6/4-10	2-8/4-10	3-0/4-10	3-2/4-10	3-4/4-10	3-6/4-10	4-0/4-10

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

A = Unit does not meet egress if using optional Autolock hardware; unit may meet second value if one is shown. Autolock hardware is not compatible with Maximum opening hardware.

See Design Data pages in this section for clear opening dimensions.



DOUBLE-HUNG

SIZE TABLES

Single Units - Equal Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"
(1 524) (1 511) 5' 0"										
(1 575) (1 562) 5' 2"										
(1 676) (1 664) 5' 6"										
(1 778) (1 765) 5' 10"										
(1 829) (1 816) 6' 0"										
(1 981) (1 969) 6' 6"										
	59 1/2"	61 1/2"	65 1/2"	69 1/2"	71 1/2"	77 1/2"				

Egress Notes:

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E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

A = Unit does not meet egress if using optional Autolock hardware; unit may meet second value if one is shown. Autolock hardware is not compatible with Maximum opening hardware.

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DOUBLE-HUNG

SIZE TABLES

2-Wide Composites with Integral Mullion - Equal Sash



2-Wide Vent

	(914) (902)	(1 219) (1 207)	(1 422) (1 410)	(1 524) (1 511)	(1 626) (1 613)	(1 829) (1 816)
Opening	3' 0"	4' 0"	4' 8"	5' 0"	5' 4"	6' 0"
Frame	35 1/2"	47 1/2"	55 1/2"	59 1/2"	63 1/2"	71 1/2"
(762) (749)	3-0/2-6	4-0/2-6	4-8/2-6	5-0/2-6	5-4/2-6	6-0/2-6
(814) (902)	3-0/3-0	4-0/3-0	4-8/3-0	5-0/3-0	5-4/3-0	6-0/3-0
(965) (953)	3-0/3-2	4-0/3-2	4-8/3-2	5-0/3-2	5-4/3-2	6-0/3-2
(1 067) (1 054)	3-0/3-6	4-0/3-6	4-8/3-6	5-0/3-6	5-4/3-6	6-0/3-6
(1 168) (1 156)	3-0/3-10	4-0/3-10	4-8/3-10	5-0/3-10	5-4/3-10	6-0/3-10
(1 219) (1 207)	3-0/4-0	4-0/4-0	4-8/4-0	5-0/4-0	5-4/4-0	6-0/4-0
(1 270) (1 257)	3-0/4-2	4-0/4-2	4-8/4-2	5-0/4-2	5-4/4-2	6-0/4-2
(1 372) (1 359)	3-0/4-6	4-0/4-6	4-8/4-6	5-0/4-6	5-4/4-6	6-0/4-6
(1 473) (1 461)	3-0/4-10	4-0/4-10	4-8/4-10	5-0/4-10	5-4/4-10	6-0/4-10
(1 524) (1 511)	3-0/5-0	4-0/5-0	4-8/5-0	5-0/5-0	5-4/5-0	6-0/5-0
(1 575) (1 562)	3-0/5-2	4-0/5-2	4-8/5-2	5-0/5-2	5-4/5-2	6-0/5-2

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

A = Unit does not meet egress if using optional Autolock hardware; unit may meet second value if one is shown. Autolock hardware is not compatible with Maximum opening hardware.

See Design Data pages in this section for clear opening dimensions.



DOUBLE-HUNG

SIZE TABLES

2-Wide Composites with Integral Mullion - Equal Sash



2-Wide Vent

	(1 930) (1 918)	(2 032) (2 219)	(2 134) (2 121)	(2 438) (2 426)
Opening	6' 4"	6' 8"	7' 0"	8' 0"
Frame	75 1/2"	79 1/2"	83 1/2"	95 1/2"
(762) (749)	2' 6"	29 1/2"		
(914) (902)	3' 0"	35 1/2"		
(965) (953)	3' 2"	37 1/2"		
(1 067) (1 054)	3' 6"	41 1/2"		
(1 168) (1 156)	3' 10"	45 1/2"		
(1 219) (1 207)	4' 0"	47 1/2"		
(1 270) (1 257)	4' 2"	49 1/2"		
(1 372) (1 359)	4' 6"	53 1/2"		
(1 473) (1 461)	4' 10"	57 1/2"		
(1 524) (1 511)	5' 0"	59 1/2"		
(1 575) (1 562)	5' 2"	61 1/2"		
	6-4/2-6	6-8/2-6	7-0/2-6	8-0/2-6
	6-4/3-0	6-8/3-0	7-0/3-0	8-0/3-0
	6-4/3-2	6-8/3-2	7-0/3-2	8-0/3-2
	6-4/3-6	6-8/3-6	7-0/3-6	8-0/3-6
	6-4/3-10	6-8/3-10	7-0/3-10	8-0/3-10
	6-4/4-0	6-8/4-0	7-0/4-0	8-0/4-0
	6-4/4-2	6-8/4-2	7-0/4-2	8-0/4-2
	6-4/4-6	6-8/4-6	7-0/4-6	8-0/4-6
	6-4/4-10	6-8/4-10	7-0/4-10	8-0/4-10
	6-4/5-0	6-8/5-0	7-0/5-0	8-0/5-0
	6-4/5-2	6-8/5-2	7-0/5-2	8-0/5-2

Egress Notes:

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E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

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DOUBLE-HUNG

SIZE TABLES

2-Wide Composites with Integral Mullion - Equal Sash



2-Wide Vent		(914) (902)	(1 219) (1 207)	(1 422) (1 410)	(1 626) (1 511)	(1 626) (1 613)	(1 829) (1 816)
Opening		3' 0"	4' 0"	4' 8"	5' 0"	5' 4"	6' 0"
Frame		35 1/2"	47 1/2"	55 1/2"	59 1/2"	63 1/2"	71 1/2"
(1 676) (1 664) (1 778) (1 765) (1 829) (1 816) (1 981) (1 969)	5' 6"						
	5' 10"						
	6' 0"						
	6' 6"						

		(1 930) (1 918)	(2 032) (2 219)	(2 134) (2 121)	(2 438) (2 426)
Opening		6' 4"	6' 8"	7' 0"	8' 0"
Frame		75 1/2"	79 1/2"	83 1/2"	95 1/2"
(1 676) (1 664) (1 778) (1 765) (1 829) (1 816) (1 981) (1 969)	5' 6"				
	5' 10"				
	6' 0"				
	6' 6"				

Egress Notes:
 Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
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Not to scale.



DOUBLE-HUNG

SIZE TABLES

3-Wide Composites with Integral Mullion - Equal Sash



3-Wide Vent

	(1 372) (1 359)	(1 829) (1 816)	(2 134) (2 121)	(2 286) (2 273)	(2 438) (2 426)	(2 743) (2 731)
Opening	4' 6"	6' 0"	7' 0"	7' 6"	8' 0"	9' 0"
Frame	53 1/2"	71 1/2"	83 1/2"	89 1/2"	95 1/2"	107 1/2"
(762) (749) 2' 6"	4-6/2-6	6-0/2-6	7-0/2-6	7-6/2-6	8-0/2-6	9-0/2-6
(914) (902) 3' 0"	4-6/3-0	6-0/3-0	7-0/3-0	7-6/3-0	8-0/3-0	9-0/3-0
(965) (953) 3' 2"	4-6/3-2	6-0/3-2	7-0/3-2	7-6/3-2	8-0/3-2	9-0/3-2
(1 067) (1 054) 3' 6"	4-6/3-6	6-0/3-6	7-0/3-6	7-6/3-6	8-0/3-6	9-0/3-6
(1 168) (1 156) 3' 10"	4-6/3-10	6-0/3-10	7-0/3-10	7-6/3-10	8-0/3-10	9-0/3-10
(1 219) (1 207) 4' 0"	4-6/4-0	6-0/4-0	7-0/4-0	7-6/4-0	8-0/4-0	9-0/4-0
(1 270) (1 257) 4' 2"	4-6/4-2	6-0/4-2	7-0/4-2	7-6/4-2	8-0/4-2	9-0/4-2
(1 372) (1 359) 4' 6"	4-6/4-6	6-0/4-6	7-0/4-6	7-6/4-6	8-0/4-6	9-0/4-6
(1 473) (1 461) 4' 10"	4-6/4-10	6-0/4-10	7-0/4-10	7-6/4-10	8-0/4-10	9-0/4-10 ^{E1A}

Egress Notes:

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E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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Not to scale.



DOUBLE-HUNG

SIZE TABLES

3-Wide Composites with Integral Mullion - Equal Sash



3-Wide Vent

	(1 372) (1 359)	(1 829) (1 816)	(2 134) (2 121)	(2 286) (2 273)	(2 438) (2 426)	(2 743) (2 731)
Opening	4' 6"	6' 0"	7' 0"	7' 6"	8' 0"	9' 0"
Frame	53 1/2"	71 1/2"	83 1/2"	89 1/2"	95 1/2"	107 1/2"
5' 0" (1 524) (1 511)	4-6/5-0	6-0/5-0	7-0/5-0	7-6/5-0	8-0/5-0	9-0/5-0 E₁ E₂
5' 2" (1 575) (1 562)	4-6/5-2	6-0/5-2	7-0/5-2	7-6/5-2	8-0/5-2	9-0/5-2 E₁ E₂
5' 6" (1 676) (1 664)	4-6/5-6	6-0/5-6	7-0/5-6	7-6/5-6	8-0/5-6 E₁	9-0/5-6 E
5' 10" (1 778) (1 765)	4-6/5-10	6-0/5-10	7-0/5-10	7-6/5-10 E₁	8-0/5-10 E₁ E₂	9-0/5-10 E
6' 0" (1 829) (1 816)	4-6/6-0	6-0/6-0	7-0/6-0	7-6/6-0 E₁	8-0/6-0 E_A E₁	9-0/6-0 E
6' 6" (1 981) (1 969)	4-6/6-6	6-0/6-6	7-0/6-6 E₁	7-6/6-6 E	8-0/6-6 E	9-0/6-6 E

Egress Notes:

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E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

A = Unit does not meet egress if using optional Autolock hardware; unit may meet second value if one is shown. Autolock hardware is not compatible with Maximum opening hardware.

See Design Data pages in this section for clear opening dimensions.



DOUBLE-HUNG

SIZE TABLES

Single Units - Cottage Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"
(762) (749)										
(914) (902)										
(965) (953)										
(1 067) (1 054)										
(1 168) (1 156)										
(1 219) (1 207)										
(1 270) (1 257)										
(1 372) (1 359)										
(1 473) (1 461)										

Not to scale.



DOUBLE-HUNG

SIZE TABLES

Single Units - Cottage Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"
(1 524) (1 511) 5' 0"										
(1 575) (1 562) 5' 2"										
(1 676) (1 664) 5' 6"										

Not to scale.



DOUBLE-HUNG

SIZE TABLES

Single Units - Contemporary Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)		
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"		
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"		
(762) (749)	2' 6"	29 1/2"	1-6/2-6	2-0/2-6	2-4/2-6	2-6/2-6	2-8/2-6	3-0/2-6	3-2/2-6	3-4/2-6	3-6/2-6	4-0/2-6
(914) (902)	3' 0"	35 1/2"	1-6/3-0	2-0/3-0	2-4/3-0	2-6/3-0	2-8/3-0	3-0/3-0	3-2/3-0	3-4/3-0	3-6/3-0	4-0/3-0
(965) (953)	3' 2"	37 1/2"	1-6/3-2	2-0/3-2	2-4/3-2	2-6/3-2	2-8/3-2	3-0/3-2	3-2/3-2	3-4/3-2	3-6/3-2	4-0/3-2
(1 067) (1 054)	3' 6"	41 1/2"	1-6/3-6	2-0/3-6	2-4/3-6	2-6/3-6	2-8/3-6	3-0/3-6	3-2/3-6	3-4/3-6	3-6/3-6	4-0/3-6
(1 168) (1 156)	3' 10"	45 1/2"	1-6/3-10	2-0/3-10	2-4/3-10	2-6/3-10	2-8/3-10	3-0/3-10	3-2/3-10	3-4/3-10	3-6/3-10	4-0/3-10
(1 219) (1 207)	4' 0"	47 1/2"	1-6/4-0	2-0/4-0	2-4/4-0	2-6/4-0	2-8/4-0	3-0/4-0	3-2/4-0	3-4/4-0	3-6/4-0	4-0/4-0
(1 270) (1 257)	4' 2"	49 1/2"	1-6/4-2	2-0/4-2	2-4/4-2	2-6/4-2	2-8/4-2	3-0/4-2	3-2/4-2	3-4/4-2	3-6/4-2	4-0/4-2
(1 372) (1 359)	4' 6"	53 1/2"	1-6/4-6	2-0/4-6	2-4/4-6	2-6/4-6	2-8/4-6	3-0/4-6	3-2/4-6	3-4/4-6	3-6/4-6	4-0/4-6
(1 473) (1 461)	4' 10"	57 1/2"	1-6/4-10	2-0/4-10	2-4/4-10	2-6/4-10	2-8/4-10	3-0/4-10	3-2/4-10	3-4/4-10	3-6/4-10	4-0/4-10

Not to scale.



DOUBLE-HUNG

SIZE TABLES

Single Units - Contemporary Sash



1-Wide Vent

	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)	(1 067) (1 054)	(1 219) (1 207)
Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 6"	4' 0"
Frame	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	47 1/2"
(1 524) (1 511) 5' 0"										
(1 575) (1 562) 5' 2"										
(1 676) (1 664) 5' 6"										

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional maximum opening hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

See Design Data pages in this section for clear opening dimensions.























DOUBLE-HUNG

SIZE TABLES
5/8" Integral Flange



Call Size	1	H3	2	3
Masonry	19 7/8"	27 1/4"	37 3/4"	53 7/8"
Buck	18 3/8"	25 3/4"	36 1/4"	52 3/8"
Frame	18 1/8"	25 1/2"	36"	52 1/8"
Tip to Tip	19 1/8"	26 1/2"	37"	53 1/8"

2	26"	25 1/4"	25"	26"	 FL-12	 FL-H32	 FL-22	 FL-32
3	38 3/8"	37 5/8"	37 3/8"	38 3/8"	 FL-13	 FL-H33	 FL-23	 FL-33
4	50 5/8"	49 7/8"	49 5/8"	50 5/8"	 FL-14	 FL-H34	 FL-24	 FL-34
5	63"	62 1/4"	62"	63"	 FL-15	 FL-H35	 FL-25	 FL-35
6	76"	75 1/4"	75"	76"	 FL-16	 FL-H36	 FL-26	 FL-36

Not to scale.