

Code Width	Code Height
36	62

Cells highlighted in light red indicate a clear opening of at least 5.70 square feet

## Clear Opening Formula

### Pro100 Single Hung & Double Hung

Clear Opening =	31	X	25 7/8
Square Footage =	5.57		
<i>Minimum buck width to meet 20" clear opening = 25</i>			
<i>Minimum buck height to meet 24" clear opening = 58 1/4</i>			

Code width -	5
(Code Height/2) -	5 1/8

### Classic Fully Welded Double Hung

Clear Opening =	31	X	25 7/8
Square Footage =	5.57		
<i>Minimum buck width to meet 20" clear opening = 25</i>			
<i>Minimum buck height to meet 24" clear opening = 58 1/4</i>			

Code width -	5
(Code Height/2) -	5 1/8

### Classic Fully Welded Double Hung with Sill Rise Extender

Clear Opening =	31	X	25 5/16
Square Footage =	5.45		
<i>Minimum buck width to meet 20" clear opening = 25</i>			
<i>Minimum buck height to meet 24" clear opening = 59 3/8</i>			

Code width -	5
(Code Height/2) -	5 11/16

### Tribute Double Hung

Clear Opening =	31	X	26 5/8
Square Footage =	5.73		
<i>Minimum buck width to meet 20" clear opening = 25</i>			
<i>Minimum buck height to meet 24" clear opening = 56 3/4</i>			

Code width -	5
(Code Height/2) -	4 3/8

### Tribute Double Hung with Sill Rise Extender

Clear Opening =	31	X	26 1/16
Square Footage =	5.61		
<i>Minimum buck width to meet 20" clear opening = 25</i>			
<i>Minimum buck height to meet 24" clear opening = 57 7/8</i>			

Code width -	5
(Code Height/2) -	4 15/16

Code Width	Code Height
36	62

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## Clear Opening Formula

### Slimline Double Hung & Slimline Single Hung

Clear Opening =	30 3/4 X	26 9/16
Square Footage =	5.67	
<i>Minimum buck width to meet 20" clear opening = 25 1/4</i>		
<i>Minimum buck height to meet 24" clear opening = 56 7/8</i>		

Code width -	5 1/4
(Code Height/2) -	4 7/16

### Slimline Double Hung & Slimline Single Hung **with Sill Rise Extender**

Clear Opening =	30 3/4 X	26
Square Footage =	5.55	
<i>Minimum buck width to meet 20" clear opening = 25 1/4</i>		
<i>Minimum buck height to meet 24" clear opening = 58</i>		

Code width -	5 1/4
(Code Height/2) -	5

### V100 Single Hung

Clear Opening =	30 3/4 X	27 1/4
Square Footage =	5.82	
<i>Minimum buck width to meet 20" clear opening = 25 1/4</i>		
<i>Minimum buck height to meet 24" clear opening = 56 7/8</i>		

Code width -	5 1/4
(Code Height/2) -	4 7/16
30E52E (Code Height/2) -	3 3/4

### V100 Single Hung **with Sill Rise Extender**

Clear Opening =	30 3/4 X	26 3/4
Square Footage =	5.71	
<i>Minimum buck width to meet 20" clear opening = 25 1/4</i>		
<i>Minimum buck height to meet 24" clear opening = 58</i>		

Code width -	5 1/4
(Code Height/2) -	5
30E52E (Code Height/2) -	4 1/4

### Vinyl Casement

Clear Opening =	24 1/2 X	56 1/4
Square Footage =	9.57	
<i>Minimum buck width to meet 20" clear opening = 31 1/2</i>		
<i>Minimum buck height to meet 24" clear opening = 29 3/4</i>		

Code width -	11 1/2
Code Height -	5 3/4

2-wide equal lite frame width = 71.250  
 3-wide equal lite frame width = 106.500  
 4-wide equal lite frame width = 141.750

BASED ON INPUT CODE WIDTH



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36	62

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**Clear Opening Formula**

**Vinyl Casement with Egress Hinge**

Clear Opening =	28 3/4 X	56 1/4
Square Footage =	11.23	
<i>Minimum buck width to meet 20" clear opening = 27 1/4</i>		
<i>Minimum buck height to meet 24" clear opening = 29 3/4</i>		

Code width -	7 1/4
Code Height -	5 3/4

2-wide equal lite frame width = 71.250  
3-wide equal lite frame width = 106.500  
4-wide equal lite frame width = 141.750

BASED ON INPUT CODE WIDTH

**Welded Vinyl Rolling Window (2-lite)**

Clear Opening =	12 13/16 X	57 3/8
Square Footage =	5.10	
<i>Minimum buck width to meet 20" clear opening = 50 3/8</i>		
<i>Minimum buck height to meet 24" clear opening = 28 5/8</i>		

(Code width/2) -	5 3/16
Code Height -	4 5/8

**Welded Vinyl Rolling Window (3-equal lite)**

Clear Opening =	7.00 X	57 3/8
Square Footage =	2.79	
<i>Minimum buck width to meet 20" clear opening = 75</i>		
<i>Minimum buck height to meet 24" clear opening = 28 5/8</i>		

(Code width/3) -	5
Code Height -	4 5/8

**Welded Vinyl Rolling Window (1/4 - 1/2 - 1/4)**

Clear Opening =	6 9/16 X	57 3/8
Square Footage =	2.61	
<i>Minimum buck width to meet 20" clear opening = 89 3/4</i>		
<i>Minimum buck height to meet 24" clear opening = 28 5/8</i>		

(Code width/4) -	2 7/16
Code Height -	4 5/8

**Majesty Wood Double Hung**

Clear Opening =	32 1/8 X	24 3/4
Square Footage =	5.52	
<i>Minimum buck width to meet 20" clear opening = 23 7/8</i>		
<i>Minimum buck height to meet 24" clear opening = 60 1/2</i>		

Code width -	3 7/8
(Code Height/2) -	6 1/4



Code Width	Code Height
36	62

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**Clear Opening Formula**

**Majesty Wood Casement**

Clear Opening =	27 1/2 X	57 1/4
Square Footage =	10.93	
<i>Minimum buck width to meet 20" clear opening = 28 1/2</i>		
<i>Minimum buck height to meet 24" clear opening = 28 3/4</i>		

Code width -	8 1/2
Code Height -	4 3/4

**Vinyl Patio Door (2-Panel)**

Clear Opening =	11 1/4 X	58 3/8
Square Footage =	4.56	
<i>Minimum buck width to meet 20" clear opening = 53 1/2</i>		
<i>Minimum buck height to meet 24" clear opening = 27 5/8</i>		
5068 Clear Opening =	22 3/4 X	75 7/8
6068 Clear Opening =	28 3/4 X	75 7/8
8068 Clear Opening =	40 3/4 X	75 7/8

(Code width/2) -	6 3/4
Code Height -	3 5/8

**Vinyl Patio Door (3-Panel) OXO**

Clear Opening =	5.06 X	58 3/8
Square Footage =	2.05	
<i>Minimum buck width to meet 20" clear opening = 80 13/16</i>		
<i>Minimum buck height to meet 24" clear opening = 27 5/8</i>		
9068 Clear Opening =	28 5/8 X	75 7/8
12068 Clear Opening =	40 5/8 X	75 7/8

(Code width/3) -	6 15/16
Code Height -	3 5/8

**Vinyl Patio Door (3-Panel) XOX**

Clear Opening =	5.38 X	58 3/8
Square Footage =	2.18	
<i>Minimum buck width to meet 20" clear opening = 79 7/8</i>		
<i>Minimum buck height to meet 24" clear opening = 27 5/8</i>		
9068 Clear Opening =	27 15/16 X	75 7/8
12068 Clear Opening =	39 15/16 X	75 7/8

(Code width/3) -	6 5/8
Code Height -	3 5/8

**Note:** The XOX clear opening width assumes that the operating panel travel is limited only by contact with the opposite operating panel (contact between opposing flush mount deadbolts). If a bumper is used between the operating panels, the opening will be reduced by 3 1/16" unless the bumper is custom cut to a smaller size. If no bumper or flush mount deadbolts are used, the opening increases by 7/16" (the thickness of 2 flush mount deadbolts).

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## Clear Opening Formula

### Vinyl Patio Door (3-Panel) XOO or OOX

Clear Opening =	5.81	X	58 3/8
Square Footage =	2.36		
<i>Minimum buck width to meet 20" clear opening = 78 9/16</i>			
<i>Minimum buck height to meet 24" clear opening = 27 5/8</i>			
9068 Clear Opening =	28 3/8	X	75 7/8
12068 Clear Opening =	40 3/8	X	75 7/8

(Code width/3) -	6 3/16
Code Height -	3 5/8

**Note:** The clear opening width for an XOO or OOX assumes that the operating panel travel is limited only by contact with the opposite interior fixed panel (contact between the flush mount deadbolt of the operating panel and the fixed interior panel interlock). If a bumper is used between the interior panels, the opening will be reduced by 3 1/4" unless the bumper is custom cut to a smaller size. If no bumper or flush mount deadbolt is used, the opening increases by 1/4" (the thickness of the flush mount deadbolt).

### Vinyl Patio Door (4-Panel) OXXO

Clear Opening =	6 1/8	X	58 3/8
Square Footage =	2.48		
<i>Minimum buck width to meet 20" clear opening = 95 5/8</i>			
<i>Minimum buck height to meet 24" clear opening = 27 5/8</i>			
10068 Clear Opening =	46	X	75 7/8
12068 Clear Opening =	58	X	75 7/8
16068 Clear Opening =	82	X	75 7/8

(Code width/2) -	11 7/8
Code Height -	3 5/8

Code Width	Code Height
36	62

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## Clear Opening Formula

### DP50 Non-Impact Patio Door (2-Panel)

Clear Opening =	9 7/16 X	57 11/16
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Square Footage =	3.78
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<i>Minimum buck width to meet 20" clear opening = 57 1/8</i>		
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<i>Minimum buck height to meet 24" clear opening = 28 5/16</i>		
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5068 Clear Opening =	21 1/16 X	75 3/16
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6068 Clear Opening =	27 1/16 X	75 3/16
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8068 Clear Opening =	39 1/16 X	75 3/16
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(Code width/2) -	8 9/16
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Code Height -	4 5/16
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### Vigilance Impact Patio Door (2-Panel)

Clear Opening =	9 7/16 X	57 11/16
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Square Footage =	3.78
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<i>Minimum buck width to meet 20" clear opening = 57 1/8</i>		
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<i>Minimum buck height to meet 24" clear opening = 28 5/16</i>		
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5068 Clear Opening =	21 1/16 X	75 3/16
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6068 Clear Opening =	27 1/16 X	75 3/16
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8068 Clear Opening =	39 1/16 X	75 3/16
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(Code width/2) -	8 9/16
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Code Height -	4 5/16
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Rev #	Description of Change	Reason for Change	Date	Reviser
13	Recreated the sheets in Excel and made them interactive. Reduced Stock Patio Door clear opening widths by 1/8". Increased the code height deduction for ORSWs by 1/16". Deleted products; Signature DH mechanical and welded sash, Harvey Single Hung & Single slider.	Ease of use. Corrected some opening deductions. Removed obsolete products.	7/11/2012	JAL
14	Added coding for Patio Doors with Blinds Between Glass	The BBG offering requires reducing the clear opening to prevent contact between the operable panel and the BBG actuator	10/29/2013	JAL
	Added XOO and OOX Patio Door coding	Coding was missing		
	Added 3-lite Patio Door fraction conversion tab	To allow fractional display of 3-lite Patio Door clear opening widths		
15	Changed Majesty Casement Clear opening width deduction from 8 to 8 1/2	Deduction was initially wrong, or changed at some point without the code change	2/27/2014	CMP
16	Added Harvey Logo and revised title block	Consistent look to Harvey ENG documents	10/9/2014	SKB
17	Added DP50 Non-Impact Patio Door 2-panel clear opening.	New product offering.	4/20/2017	JYV
18	Added Vigilance Impact Patio Door 2-panel clear opening.	Add clear opening to sheet.	5/1/2017	JYV
19	Revised clear opening square footage to include 2 decimal place accuracy on all windows and doors on this worksheet. Revised the clear opening and bottom sash balance cover codes for Classic DH to allow for 1/8" additional clear opening height.	To update this code sheet so that it aligns with the requirements in the field for 2 decimal place accuracy for the clear openings. To increase the clear opening square footage on Classic DH windows.	3/27/2018	SKB
20	Revise Patio Door Clear Opening calculations for 2,3 and 4-Lite Doors. Removed unique calculations for Blinds Between Glass doors as those now are the same as the standard door without Blinds Between the Glass.	To update this code sheet so that it aligns with the specifications for the "Common" size doors. Eliminate BBG information as it is redundant and no longer needed	1/10/2020	SKB
21	Added Pro100 Single Hung & Double Hung to Clear Openings tab	New Product Line	2/18/2020	BRR
22	Rearrange sheet to place all DH's first. Removed Storm Windows and doors, Universal Rolling Windows, Vigilance Impact Rated Products.	To update sheet with most current information and product offerings	3/13/2020	SKB
23	Added V100 Single Hung, updated Harvey Logo from Building Products to Windows + Doors	To update sheet with most current information and product offerings	8/11/2020	DDL

10.03125	10 1/16
10.09375	10 1/8
10.15625	10 3/16
10.21875	10 1/4
10.28125	10 5/16
10.34375	10 3/8
10.40625	10 7/16
10.46875	10 1/2
10.53125	10 9/16
10.59375	10 5/8
10.65625	10 11/16
10.71875	10 3/4
10.78125	10 13/16
10.84375	10 7/8
10.90625	10 15/16
10.96875	11
11.03125	11 1/16
11.09375	11 1/8
11.15625	11 3/16
11.21875	11 1/4
11.28125	11 5/16
11.34375	11 3/8
11.40625	11 7/16
11.46875	11 1/2
11.53125	11 9/16
11.59375	11 5/8
11.65625	11 11/16
11.71875	11 3/4
11.78125	11 13/16
11.84375	11 7/8
11.90625	11 15/16
11.96875	12
12.03125	12 1/16
12.09375	12 1/8
12.15625	12 3/16
12.21875	12 1/4
12.28125	12 5/16
12.34375	12 3/8
12.40625	12 7/16
12.46875	12 1/2
12.53125	12 9/16
12.59375	12 5/8
12.65625	12 11/16
12.71875	12 3/4
12.78125	12 13/16
12.84375	12 7/8
12.90625	12 15/16



12.96875	13
13.03125	13 1/16
13.09375	13 1/8
13.15625	13 3/16
13.21875	13 1/4
13.28125	13 5/16
13.34375	13 3/8
13.40625	13 7/16
13.46875	13 1/2
13.53125	13 9/16
13.59375	13 5/8
13.65625	13 11/16
13.71875	13 3/4
13.78125	13 13/16
13.84375	13 7/8
13.90625	13 15/16
13.96875	14
14.03125	14 1/16
14.09375	14 1/8
14.15625	14 3/16
14.21875	14 1/4
14.28125	14 5/16
14.34375	14 3/8
14.40625	14 7/16
14.46875	14 1/2
14.53125	14 9/16
14.59375	14 5/8
14.65625	14 11/16
14.71875	14 3/4
14.78125	14 13/16
14.84375	14 7/8
14.90625	14 15/16
14.96875	15
15.03125	15 1/16
15.09375	15 1/8
15.15625	15 3/16
15.21875	15 1/4
15.28125	15 5/16
15.34375	15 3/8
15.40625	15 7/16
15.46875	15 1/2
15.53125	15 9/16
15.59375	15 5/8
15.65625	15 11/16
15.71875	15 3/4
15.78125	15 13/16
15.84375	15 7/8

15.90625	15 15/16
15.96875	16
16.03125	16 1/16
16.09375	16 1/8
16.15625	16 3/16
16.21875	16 1/4
16.28125	16 5/16
16.34375	16 3/8
16.40625	16 7/16
16.46875	16 1/2
16.53125	16 9/16
16.59375	16 5/8
16.65625	16 11/16
16.71875	16 3/4
16.78125	16 13/16
16.84375	16 7/8
16.90625	16 15/16
16.96875	17
17.03125	17 1/16
17.09375	17 1/8
17.15625	17 3/16
17.21875	17 1/4
17.28125	17 5/16
17.34375	17 3/8
17.40625	17 7/16
17.46875	17 1/2
17.53125	17 9/16
17.59375	17 5/8
17.65625	17 11/16
17.71875	17 3/4
17.78125	17 13/16
17.84375	17 7/8
17.90625	17 15/16
17.96875	18
18.03125	18 1/16
18.09375	18 1/8
18.15625	18 3/16
18.21875	18 1/4
18.28125	18 5/16
18.34375	18 3/8
18.40625	18 7/16
18.46875	18 1/2
18.53125	18 9/16
18.59375	18 5/8
18.65625	18 11/16
18.71875	18 3/4
18.78125	18 13/16

18.84375	18 7/8
18.90625	18 15/16
18.96875	19
19.03125	19 1/16
19.09375	19 1/8
19.15625	19 3/16
19.21875	19 1/4
19.28125	19 5/16
19.34375	19 3/8
19.40625	19 7/16
19.46875	19 1/2
19.53125	19 9/16
19.59375	19 5/8
19.65625	19 11/16
19.71875	19 3/4
19.78125	19 13/16
19.84375	19 7/8
19.90625	19 15/16
19.96875	20
20.03125	20 1/16
20.09375	20 1/8
20.15625	20 3/16
20.21875	20 1/4
20.28125	20 5/16
20.34375	20 3/8
20.40625	20 7/16
20.46875	20 1/2
20.53125	20 9/16
20.59375	20 5/8
20.65625	20 11/16
20.71875	20 3/4
20.78125	20 13/16
20.84375	20 7/8
20.90625	20 15/16
20.96875	21
21.03125	21 1/16
21.09375	21 1/8
21.15625	21 3/16
21.21875	21 1/4
21.28125	21 5/16
21.34375	21 3/8
21.40625	21 7/16
21.46875	21 1/2
21.53125	21 9/16
21.59375	21 5/8
21.65625	21 11/16
21.71875	21 3/4

21.78125	21 13/16
21.84375	21 7/8
21.90625	21 15/16
21.96875	22
22.03125	22 1/16
22.09375	22 1/8
22.15625	22 3/16
22.21875	22 1/4
22.28125	22 5/16
22.34375	22 3/8
22.40625	22 7/16
22.46875	22 1/2
22.53125	22 9/16
22.59375	22 5/8
22.65625	22 11/16
22.71875	22 3/4
22.78125	22 13/16
22.84375	22 7/8
22.90625	22 15/16
22.96875	23
23.03125	23 1/16
23.09375	23 1/8
23.15625	23 3/16
23.21875	23 1/4
23.28125	23 5/16
23.34375	23 3/8
23.40625	23 7/16
23.46875	23 1/2
23.53125	23 9/16
23.59375	23 5/8
23.65625	23 11/16
23.71875	23 3/4
23.78125	23 13/16
23.84375	23 7/8
23.90625	23 15/16
23.96875	24
24.03125	24 1/16
24.09375	24 1/8
24.15625	24 3/16
24.21875	24 1/4
24.28125	24 5/16
24.34375	24 3/8
24.40625	24 7/16
24.46875	24 1/2
24.53125	24 9/16
24.59375	24 5/8
24.65625	24 11/16

24.71875	24 3/4
24.78125	24 13/16
24.84375	24 7/8
24.90625	24 15/16
24.96875	25
25.03125	25 1/16
25.09375	25 1/8
25.15625	25 3/16
25.21875	25 1/4
25.28125	25 5/16
25.34375	25 3/8
25.40625	25 7/16
25.46875	25 1/2
25.53125	25 9/16
25.59375	25 5/8
25.65625	25 11/16
25.71875	25 3/4
25.78125	25 13/16
25.84375	25 7/8
25.90625	25 15/16
25.96875	26
26.03125	26 1/16
26.09375	26 1/8
26.15625	26 3/16
26.21875	26 1/4
26.28125	26 5/16
26.34375	26 3/8
26.40625	26 7/16
26.46875	26 1/2
26.53125	26 9/16
26.59375	26 5/8
26.65625	26 11/16
26.71875	26 3/4
26.78125	26 13/16
26.84375	26 7/8
26.90625	26 15/16
26.96875	27
27.03125	27 1/16
27.09375	27 1/8
27.15625	27 3/16
27.21875	27 1/4
27.28125	27 5/16
27.34375	27 3/8
27.40625	27 7/16
27.46875	27 1/2
27.53125	27 9/16
27.59375	27 5/8

27.65625 27 11/16  
27.71875 27 3/4  
27.78125 27 13/16  
27.84375 27 7/8  
27.90625 27 15/16  
27.96875 28  
28.03125 28 1/16  
28.09375 28 1/8  
28.15625 28 3/16  
28.21875 28 1/4  
28.28125 28 5/16  
28.34375 28 3/8  
28.40625 28 7/16  
28.46875 28 1/2  
28.53125 28 9/16  
28.59375 28 5/8  
28.65625 28 11/16  
28.71875 28 3/4  
28.78125 28 13/16  
28.84375 28 7/8  
28.90625 28 15/16  
28.96875 29  
29.03125 29 1/16  
29.09375 29 1/8  
29.15625 29 3/16  
29.21875 29 1/4  
29.28125 29 5/16  
29.34375 29 3/8  
29.40625 29 7/16  
29.46875 29 1/2  
29.53125 29 9/16  
29.59375 29 5/8  
29.65625 29 11/16  
29.71875 29 3/4  
29.78125 29 13/16  
29.84375 29 7/8  
29.90625 29 15/16  
29.96875 30  
30.03125 30 1/16  
30.09375 30 1/8  
30.15625 30 3/16  
30.21875 30 1/4  
30.28125 30 5/16  
30.34375 30 3/8  
30.40625 30 7/16  
30.46875 30 1/2  
30.53125 30 9/16

30.59375 30 5/8  
30.65625 30 11/16  
30.71875 30 3/4  
30.78125 30 13/16  
30.84375 30 7/8  
30.90625 30 15/16  
30.96875 31  
31.03125 31 1/16  
31.09375 31 1/8  
31.15625 31 3/16  
31.21875 31 1/4  
31.28125 31 5/16  
31.34375 31 3/8  
31.40625 31 7/16  
31.46875 31 1/2  
31.53125 31 9/16  
31.59375 31 5/8  
31.65625 31 11/16  
31.71875 31 3/4  
31.78125 31 13/16  
31.84375 31 7/8  
31.90625 31 15/16  
31.96875 32  
32.03125 32 1/16  
32.09375 32 1/8  
32.15625 32 3/16  
32.21875 32 1/4  
32.28125 32 5/16  
32.34375 32 3/8  
32.40625 32 7/16  
32.46875 32 1/2  
32.53125 32 9/16  
32.59375 32 5/8  
32.65625 32 11/16  
32.71875 32 3/4  
32.78125 32 13/16  
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