



ASTA AMERICA

BY JANUS INTERNATIONAL

### 400 SERIES CLEARANCE REQUIREMENTS

Reference Chart - Standard Guide Type, Headplate Size and Endlocks

WIDTH (FT)	HEIGHT (FT) →																				
	Up To	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
3'	3' x 3	3 x 4	3 x 5	3 x 6	3 x 7	3 x 8															
4'	4 x 3	4 x 4	4 x 5	4 x 6	4 x 7	4 x 8	4 x 9	4 x 10													
5'	5 x 3	5 x 4	5 x 5	5 x 6	5 x 7	5 x 8	5 x 9	5 x 10	5 x 11	5 x 12											
6'	6 x 3	6 x 4	6 x 5	6 x 6	6 x 7	6 x 8	6 x 9	6 x 10	6 x 11	6 x 12	6 x 13										
7'	7 x 3	7 x 4	7 x 5	7 x 6	7 x 7	7 x 8	7 x 9	7 x 10	7 x 11	7 x 12	7 x 13	7 x 14									
8'	8 x 3	8 x 4	8 x 5	8 x 6	8 x 7	8 x 8	8 x 9	8 x 10	8 x 11	8 x 12	8 x 13	8 x 14	8 x 15	8 x 16							
9'	9 x 3	9 x 4	9 x 5	9 x 6	9 x 7	9 x 8	9 x 9	9 x 10	9 x 11	9 x 12	9 x 13	9 x 14	9 x 15	9 x 16	9 x 17	9 x 18					
10'	10 x 3	10 x 4	10 x 5	10 x 6	10 x 7	10 x 8	10 x 9	10 x 10	10 x 11	10 x 12	10 x 13	10 x 14	10 x 15	10 x 16	10 x 17	10 x 18	10 x 19	10 x 20			
11'	11 x 3	11 x 4	11 x 5	11 x 6	11 x 7	11 x 8	11 x 9	11 x 10	11 x 11	11 x 12	11 x 13	11 x 14	11 x 15	11 x 16	11 x 17	11 x 18	11 x 19	11 x 20	11 x 21	11 x 22	
12'	12 x 3	12 x 4	12 x 5	12 x 6	12 x 7	12 x 8	12 x 9	12 x 10	12 x 11	12 x 12	12 x 13	12 x 14	12 x 15	12 x 16	12 x 17	12 x 18	12 x 19	12 x 20	12 x 21	12 x 22	
13'	13 x 3	13 x 4	13 x 5	13 x 6	13 x 7	13 x 8	13 x 9	13 x 10	13 x 11	13 x 12	13 x 13	13 x 14	13 x 15	13 x 16	13 x 17	13 x 18	13 x 19	13 x 20	13 x 21	13 x 22	
14'	14 x 3	14 x 4	14 x 5	14 x 6	14 x 7	14 x 8	14 x 9	14 x 10	14 x 11	14 x 12	14 x 13	14 x 14	14 x 15	14 x 16	14 x 17	14 x 18	14 x 19	14 x 20	14 x 21	14 x 22	
15'	15 x 3	15 x 4	15 x 5	15 x 6	15 x 7	15 x 8	15 x 9	15 x 10	15 x 11	15 x 12	15 x 13	15 x 14	15 x 15	15 x 16	15 x 17	15 x 18	15 x 19	15 x 20	15 x 21	15 x 22	
16'	16 x 3	16 x 4	16 x 5	16 x 6	16 x 7	16 x 8	16 x 9	16 x 10	16 x 11	16 x 12	16 x 13	16 x 14	16 x 15	16 x 16	16 x 17	16 x 18	16 x 19	16 x 20	16 x 21	16 x 22	
17'	17 x 3	17 x 4	17 x 5	17 x 6	17 x 7	17 x 8	17 x 9	17 x 10	17 x 11	17 x 12	17 x 13	17 x 14	17 x 15	17 x 16	17 x 17	17 x 18	17 x 19	17 x 20	17 x 21	17 x 22	
18'	18 x 3	18 x 4	18 x 5	18 x 6	18 x 7	18 x 8	18 x 9	18 x 10	18 x 11	18 x 12	18 x 13	18 x 14	18 x 15	18 x 16	18 x 17	18 x 18	18 x 19	18 x 20	18 x 21	18 x 22	
19'	19 x 3	19 x 4	19 x 5	19 x 6	19 x 7	19 x 8	19 x 9	19 x 10	19 x 11	19 x 12	19 x 13	19 x 14	19 x 15	19 x 16	19 x 17	19 x 18	19 x 19	19 x 20	19 x 21	19 x 22	
20'	20 x 3	20 x 4	20 x 5	20 x 6	20 x 7	20 x 8	20 x 9	20 x 10	20 x 11	20 x 12	20 x 13	20 x 14	20 x 15	20 x 16	20 x 17	20 x 18	20 x 19	20 x 20	20 x 21	20 x 22	
21'	21 x 3	21 x 4	21 x 5	21 x 6	21 x 7	21 x 8	21 x 9	21 x 10	21 x 11	21 x 12	21 x 13	21 x 14	21 x 15	21 x 16	21 x 17	21 x 18	21 x 19	21 x 20	21 x 21	21 x 22	
22'	22 x 3	22 x 4	22 x 5	22 x 6	22 x 7	22 x 8	22 x 9	22 x 10	22 x 11	22 x 12	22 x 13	22 x 14	22 x 15	22 x 16	22 x 17	22 x 18	22 x 19	22 x 20	22 x 21	22 x 22	
23'	23 x 3	23 x 4	23 x 5	23 x 6	23 x 7	23 x 8	23 x 9	23 x 10	23 x 11	23 x 12	23 x 13	23 x 14	23 x 15	23 x 16	23 x 17	23 x 18	23 x 19	23 x 20	23 x 21	23 x 22	
24'	24 x 3	24 x 4	24 x 5	24 x 6	24 x 7	24 x 8	24 x 9	24 x 10	24 x 11	24 x 12	24 x 13	24 x 14	24 x 15	24 x 16	24 x 17	24 x 18	24 x 19	24 x 20	24 x 21	24 x 22	
25'	25 x 3	25 x 4	25 x 5	25 x 6	25 x 7	25 x 8	25 x 9	25 x 10	25 x 11	25 x 12	25 x 13	25 x 14	25 x 15	25 x 16	25 x 17	25 x 18	25 x 19	25 x 20	25 x 21	25 x 22	
26'	26 x 3	26 x 4	26 x 5	26 x 6	26 x 7	26 x 8	26 x 9	26 x 10	26 x 11	26 x 12	26 x 13	26 x 14	26 x 15	26 x 16	26 x 17	26 x 18	26 x 19	26 x 20	26 x 21	26 x 22	
27'	27 x 3	27 x 4	27 x 5	27 x 6	27 x 7	27 x 8	27 x 9	27 x 10	27 x 11	27 x 12	27 x 13	27 x 14	27 x 15	27 x 16	27 x 17	27 x 18	27 x 19	27 x 20	27 x 21	27 x 22	
28'	28 x 3	28 x 4	28 x 5	28 x 6	28 x 7	28 x 8	28 x 9	28 x 10	28 x 11	28 x 12	28 x 13	28 x 14	28 x 15	28 x 16	28 x 17	28 x 18	28 x 19	28 x 20	28 x 21	28 x 22	
29'	29 x 3	29 x 4	29 x 5	29 x 6	29 x 7	29 x 8	29 x 9	29 x 10	29 x 11	29 x 12	29 x 13	29 x 14	29 x 15	29 x 16	29 x 17	29 x 18	29 x 19	29 x 20	29 x 21	29 x 22	
30'	30 x 3	30 x 4	30 x 5	30 x 6	30 x 7	30 x 8	30 x 9	30 x 10	30 x 11	30 x 12	30 x 13	30 x 14	30 x 15	30 x 16	30 x 17	30 x 18	30 x 19	30 x 20	30 x 21	30 x 22	

HEADROOM DIMENSIONS					
14" HEAD PLATES	16" HEAD PLATES	18" HEAD PLATES	22" HEAD PLATES	26" HEAD PLATES	30" HEAD PLATES
X = 20"	X = 22"	X = 24"	X = 28"	X = 33"	X = 37"
V = 15"	V = 17"	V = 19"	V = 23"	V = 29"	V = 33"

GUIDE TYPE- HEADPLATE SIZE-ENDLOCK TYPE
TYPE 2 - 14" HP - MALLEABLE ENDLOCKS
TYPE 2 - 16" HP - MALLEABLE ENDLOCKS
TYPE 3 - 18" HP - MALLEABLE ENDLOCKS
TYPE 2WL - 14" HP - MALLEABLE WINDLOCKS
TYPE 2WL - 16" HP - MALLEABLE WINDLOCKS
TYPE 3WL - 16" HP - MALLEABLE WINDLOCKS
TYPE 3WL - 18" HP - MALLEABLE WINDLOCKS
TYPE 4 - 22" HP - MALLEABLE ENDLOCKS
TYPE 4WL - 18" HP - MALLEABLE WINDLOCKS
TYPE 4WL - 22" HP - MALLEABLE WINDLOCKS
TYPE 5WL - 18" HP - MALLEABLE WINDLOCKS
TYPE 5WL - 22" HP - MALLEABLE WINDLOCKS
TYPE 6WL - 22" HP - MALLEABLE WINDLOCKS (See Note #4)
TYPE 6WL - 26" HP - MALLEABLE WINDLOCKS (See Note #4)

**NOTES:**

- 1) FOR WINDLOADS HIGHER THAN 20 PSF CONSULT FACTORY FOR GUIDE TYPE, WINDLOCK FREQUENCY, AND HEAD PLATE DIMENSIONS.
- 2) WINDLOCKS STANDARD FOR ALL DOORS 15'0" WIDE & WIDER
- 3) CONSULT ENGINEERING FOR AVAILABLE SIZES BY MODEL (GAUGE & PROFILE).
- 4) TYPE 6 GUIDE REQUIRES 5/16" HEADPLATE THICKNESS, OTHERWISE 1/4" STANDARD.
- 5) ACTUAL HEADROOM DIMENSIONS FOR CERTAIN SIZES MAY VARY BY MODEL FROM CHART. 18 GAUGE HAS BEEN USED TO DETERMINE HEADROOM DIMENSIONS ABOVE. ANY VARIATION WOULD ONLY REQUIRE LESS HEADROOM. CONSULT FACTORY FOR EXACT DIMENSIONS.

# 400 SERIES CLEARANCE REQUIREMENTS

## Reference Chart - Standard Guide Type, Headplate Size and Endlocks

WIDTH (FT)		HEIGHT (FT)																	
Up To	23'	24'	25'	26'	27'	28'	29'	30'	31'	32'	33'	34'	35'	36'	37'	38'	39'	40'	
12'	12 x 23	12 x 24																	
13'	13 x 23	13 x 24																	
14'	14 x 23	14 x 24	14 x 25	14 x 26	14 x 27	14 x 28													
15'	15 x 23	15 x 24	15 x 25	15 x 26	15 x 27	15 x 28													
16'	16 x 23	16 x 24	16 x 25	16 x 26	16 x 27	16 x 28	16 x 29	16 x 30											
17'	17 x 23	17 x 24	17 x 25	17 x 26	17 x 27	17 x 28	17 x 29	17 x 30											
18'	18 x 23	18 x 24	18 x 25	18 x 26	18 x 27	18 x 28	18 x 29	18 x 30											
19'	19 x 23	19 x 24	19 x 25	19 x 26	19 x 27	19 x 28	19 x 29	19 x 30											
20'	20 x 23	20 x 24	20 x 25	20 x 26	20 x 27	20 x 28	20 x 29	20 x 30											
21'	21 x 23	21 x 24	21 x 25	21 x 26	21 x 27	21 x 28	21 x 29	21 x 30											
22'	22 x 23	22 x 24	22 x 25	22 x 26	22 x 27	22 x 28	22 x 29	22 x 30											
23'	23 x 23	23 x 24	23 x 25	23 x 26	23 x 27	23 x 28	23 x 29	23 x 30											
24'	24 x 23	24 x 24	24 x 25	24 x 26	24 x 27	24 x 28	24 x 29	24 x 30											
25'	25 x 23	25 x 24	25 x 25	25 x 26	25 x 27	25 x 28	25 x 29	25 x 30											
26'	26 x 23	26 x 24	26 x 25	26 x 26	26 x 27	26 x 28	26 x 29	26 x 30											
27'	27 x 23	27 x 24	27 x 25	27 x 26	27 x 27	27 x 28	27 x 29	27 x 30											
28'	28 x 23	28 x 24	28 x 25	28 x 26	28 x 27	28 x 28	28 x 29	28 x 30											
29'	29 x 23	29 x 24	29 x 25	29 x 26	29 x 27	29 x 28	29 x 29	29 x 30											
30'	30 x 23	30 x 24	30 x 25	30 x 26	30 x 27	30 x 28	30 x 29	30 x 30											
31'	31 x 23	31 x 24	31 x 25	31 x 26	31 x 27	31 x 28													
32'	32 x 23	32 x 24	32 x 25	32 x 26															

WIDTH (FT)		HEIGHT (FT)																			
Up To	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	
31'	31 x 3	31 x 4	31 x 5	31 x 6	31 x 7	31 x 8	31 x 9	31 x 10	31 x 11	31 x 12	31 x 13	31 x 14	31 x 15	31 x 16	31 x 17	31 x 18	31 x 19	31 x 20	31 x 21	31 x 32	
32'	32 x 3	32 x 4	32 x 5	32 x 6	32 x 7	32 x 8	32 x 9	32 x 10	32 x 11	32 x 12	32 x 13	32 x 14	32 x 15	32 x 16	32 x 17	32 x 18	32 x 19	32 x 20	32 x 21	32 x 22	
33'	33 x 3	33 x 4	33 x 5	33 x 6	33 x 7	33 x 8	33 x 9	33 x 10	33 x 11	33 x 12	33 x 13	33 x 14	33 x 15	33 x 16	33 x 17	33 x 18	33 x 19	33 x 20	33 x 21	33 x 22	
34'	34 x 3	34 x 4	34 x 5	34 x 6	34 x 7	34 x 8	34 x 9	34 x 10	34 x 11	34 x 12	34 x 13	34 x 14	34 x 15	34 x 16	34 x 17	34 x 18	34 x 19	34 x 20	34 x 21	34 x 22	
35'	35 x 3	35 x 4	35 x 5	35 x 6	35 x 7	35 x 8	35 x 9	35 x 10	35 x 11	35 x 12	35 x 13	35 x 14	35 x 15	35 x 16	35 x 17	35 x 18	35 x 19	35 x 20			
36'	36 x 3	36 x 4	36 x 5	36 x 6	36 x 7	36 x 8	36 x 9	36 x 10	36 x 11	36 x 12	36 x 13	36 x 14	36 x 15	36 x 16	36 x 17	36 x 18					
37'	37 x 3	37 x 4	37 x 5	37 x 6	37 x 7	37 x 8	37 x 9	37 x 10	37 x 11	37 x 12	37 x 13	37 x 14	37 x 15	37 x 16							
38'	38 x 3	38 x 4	38 x 5	38 x 6	38 x 8	38 x 8	38 x 9	38 x 10	38 x 11	38 x 12	38 x 13	38 x 14	38 x 15	38 x 16							
39'	39 x 3	39 x 4	39 x 5	39 x 6	39 x 7	39 x 8	39 x 9	39 x 10	39 x 11	39 x 12	39 x 13	39 x 14									
40'	40 x 3	40 x 4	40 x 5	40 x 6	40 x 7	40 x 8	40 x 9	40 x 10	40 x 11	40 x 12	40 x 13	40 x 14									

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TYPE 5WL - 22" HP - MALLEABLE WINDLOCKS
TYPE 6WL - 32" HP - MALLEABLE WINDLOCKS (See Note #4)

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CONSULT ENGINEERING