

New Construction or Alterations																
Degree of Incline or 4.8 - 1:12 Ratio (1 foot of rise for every 12 feet of ramp)																
Running Feet																
Total Rise in inches		4	6	8	10	12	14	16	18	20	22	24	26	28	30	
	4	4.8	3.2	2.5	2.4	1.6										
	6	7.2	4.8	3.6	2.9	2.4	2.0									
	8		6.4	4.8	3.8	3.2	2.7	2.4	2.1	1.9						
	10		8.0	6.0	4.8	4.0	3.4	3.0	2.7	2.4	2.2	2.0				
	12			7.2	5.7	4.8	4.1	3.6	3.2	2.9	2.6	2.4	2.2	2.0		
	14				6.7	5.6	4.8	4.2	3.7	3.3	3.0	2.8	2.6	2.4	2.2	
	16				7.7	6.4	5.5	4.8	4.2	3.8	3.5	3.2	2.9	2.7	2.5	
	18					7.2	6.2	5.4	4.8	4.3	3.9	3.6	3.3	3.1	2.9	
	20					8.0	6.8	6.0	5.3	4.8	4.3	4.0	3.7	3.4	3.2	
	22						7.5	6.6	5.8	5.3	4.8	4.4	4.0	3.8	3.5	
	24							7.2	6.4	5.7	5.2	4.8	4.4	4.1	3.8	
	26								7.8	6.9	6.2	5.6	5.2	4.8	4.4	4.1
	28									7.4	6.7	6.1	5.6	5.1	4.8	4.5
	30	Maximum Rise allowed before a landing is required														4.8
Existing Buildings and Structures																
Degree of Incline 5.7 - 1:10 Ratio (1 foot of rise for every 10 feet of ramp)																
Total Rise in inches	Run in Feet															
		3.3333	5	6.6667	8.3333	10	11.67	13.33	15	16.67	18.33	20	21.67	23.33	25	
		40	60	80	100	120	140	160	180	200	220	240	260	280	300	
	4	5.7	3.8	2.9	2.3	1.9										
	6	8.5	5.7	4.3	3.4	2.9										
	8		7.6	5.7	4.6	3.8	3.3									
	10			7.1	5.7	4.8	4.1	3.6								
	12				6.8	5.7	4.9	4.3	3.8							
	14				8.0	6.7	5.7	5.0	4.4	4.0						
	16					7.6	6.5	5.7	5.1	4.6	4.2					
	18						7.3	6.4	5.7	5.1	4.7	4.3	4.0			
	20						8.1	7.1	6.3	5.7	5.2	4.8	4.4			
	22							7.8	7.0	6.3	5.7	5.2	4.8	4.5	4.2	
	24								7.6	6.8	6.2	5.7	5.3	4.9	4.6	
	26									8.2	7.4	6.7	6.2	5.7	5.3	5.0
28										8.0	7.3	6.7	6.1	5.7	5.3	
30	Maximum Rise allowed before a landing is required														5.7	

Existing Buildings and Structures															
Degree of Incline 3.8 - 1:15 Ratio (1 foot of rise for every 15 feet of ramp)															
Total Rise in inches	Run in Feet														
	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	
	60	90	120	150	180	210	240	270	300	330	360	390	420	450	
4	3.8	2.5	1.9	1.5	1.3										
6	5.7	3.8	2.9	2.3	1.9										
8		5.1	3.8	3.1	2.5	2.2									
10			4.8	3.8	3.2	2.7	2.4								
12				4.6	3.8	3.3	2.9	2.5							
14				5.3	4.4	3.8	3.3	3.0	2.7						
16					5.1	4.4	3.8	3.4	3.1	2.8					
18						4.9	4.3	3.8	3.4	3.1	2.9	2.6			
20						5.4	4.8	4.2	3.8	3.5	3.2	2.9			
22							5.2	4.7	4.2	3.8	3.5	3.2	3.0	2.8	
24								5.1	4.6	4.2	3.8	3.5	3.3	3.1	
26									5.5	5.0	4.5	4.1	3.8	3.5	
28										5.3	4.8	4.4	4.1	3.8	
30	Maximum Rise allowed before a landing is required														3.8

Existing Buildings and Structures															
Degree of Incline 2.9 - 1:20 Ratio (1 foot of rise for every 20 feet of ramp)															
Total Rise in inches	Run in Feet														
	6.6667	10	13.333	16.667	20	23.33	26.67	30	33.33	36.67	40	43.33	46.67	50	
	80	120	160	200	240	280	320	360	400	440	480	520	560	600	
4	2.9	1.9	1.4												
6	4.3	2.9	2.1	1.7											
8		3.8	2.9	2.3	1.9										
10			3.6	2.9	2.4	2.0									
12				3.4	2.9	2.5	2.1								
14				4.0	3.3	2.9	2.5	2.2							
16					3.8	3.3	2.9	2.5	2.3						
18						3.7	3.2	2.9	2.6	2.3					
20							3.6	3.2	2.9	2.6	2.4				
22								3.5	3.1	2.9	2.6	2.4			
24									3.4	3.1	2.9	2.6	2.5		
26										3.4	3.1	2.9	2.7	2.5	
28											3.3	3.1	2.9	2.7	
30	Maximum Rise allowed before a landing is required														2.9

4.8 degrees = A.N.S.I and A.D.A. Codes for a 12:1 ratio.

6-8 degrees - Acceptable for most private residence for power chairs or manual chairs with assistance.

NOTE: Always check local building codes for requirements for ramping.

No run shall exceed the following ratio in the chart below without an intermediate resting platform.

Slope 1:12 - 1:15 max rise 30 inches - max run 30 feet
Slope 1:16 - 1:19 max rise 30 inches - max run 40 feet
Slope 1:20 max rise 30 inches - max run 50 feet