

Measuring Guide Drop Down

How to Determine What Length of Ramp You Need

When determining what type and length of ramp you need, you will need to know the total rise and what type of mobility equipment is being used. Please use the following degree of inclines as your guide to determining the length of ramp needed.

Regarding degrees of inclines. The typical maximum degrees of incline are:

For walking and for walkers - it is 4.8 degrees

For manual chairs – if they are being assisted you can usually do 7.2 degrees as a guide depending on

the person assisting ability. If they are not being assisted at all times then 4.8 degrees is the maximum

degree of incline.

For power equipment - ALWAYS check the owner's manual for the 'occupied degree of incline' typically it is a maximum of 8 degrees... but always double check the owner's manual.

Above all never exceed 9.6 degrees of incline in an occupied chair

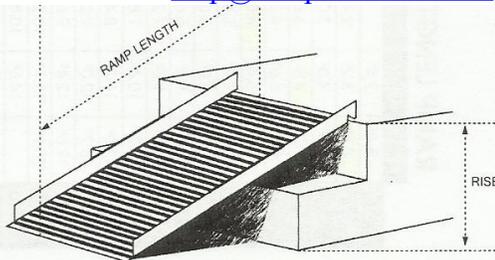
Our portable ramps go as long as 10 feet... if the incline chart says you need longer, then you would need a Modular Ramp.

In this section we have attached all items necessary to guide you through measuring for your ramp. In just a few minutes you will have all the measurements necessary to determine which length of ramp you will need. The most important measurement is the total rise. The length of the ramp needed is determined by the total rise (the vertical height of the area requiring a ramp) see the diagram below. If you have different grade variations please refer to the Entry Reference Worksheet to assist you with all measurements needed to determine the total rise. It is vital to choose the right ramp with the proper incline for everyone's safety involved. Remember we are only a phone call or an e-mail away to assist you (1-855-397-2677 or help@rampsandinfo.com).

TO ESTABLISH THE PROPER RAMP LENGTH:

1. Determine the incline that your chair is designed to climb.
2. Measure the distance from the top step/landing to the ground (RISE).
3. Refer to Incline Chart to find proper ramp length.

- ⚠ **CAUTION!** At any incline, use ramp only with a qualified helper.
- ⚠ **CAUTION!** Refer to your equipment's (wheelchair or scooter) User Guide for exact recommendations concerning acceptable usage and allowable slope.



RAMP LENGTH (FEET)

RISE (INCHES)	RAMP LENGTH (FEET)																								
	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	
3	3.6°	2.4°																							
4	4.8°	3.2°	2.4°																						
5	6.0°	4.0°	3.0°	2.4°	2.0°																				
6	7.2°	4.8°	3.6°	2.9°	2.4°	2.0°																			
7	8.4°	5.6°	4.2°	3.3°	2.8°	2.4°	2.1°																		
8	9.6°	6.4°	4.8°	3.8°	3.2°	2.7°	2.4°	2.1°																	
9	10.8°	7.2°	5.4°	4.3°	3.6°	3.1°	2.7°	2.4°	2.1°	2.0°															
10	12.0°	8.0°	6.0°	4.8°	4.0°	3.4°	3.0°	2.7°	2.4°	2.2°	2.0°														
11	13.2°	8.8°	6.6°	5.3°	4.4°	3.8°	3.3°	2.9°	2.6°	2.4°	2.2°	2.0°													
12	14.4°	9.6°	7.2°	5.7°	4.8°	4.1°	3.6°	3.2°	2.9°	2.6°	2.4°	2.2°	2.0°												
13	15.7°	10.4°	7.8°	6.2°	5.2°	4.4°	3.9°	3.5°	3.1°	2.8°	2.6°	2.4°	2.2°	2.1°											
14	17.0°	11.2°	8.4°	6.7°	5.6°	4.8°	4.2°	3.7°	3.3°	3.0°	2.8°	2.6°	2.4°	2.2°	2.1°	2.0°									
15	18.2°	12.0°	9.0°	7.2°	6.0°	5.1°	4.5°	4.0°	3.6°	3.3°	3.0°	2.8°	2.6°	2.4°	2.2°	2.1°	2.0°								
16	19.5°	12.8°	9.6°	7.7°	6.4°	5.5°	4.8°	4.2°	3.8°	3.5°	3.2°	2.9°	2.7°	2.5°	2.4°	2.2°	2.1°	2.0°							
17	20.7°	13.7°	10.2°	8.1°	6.8°	5.8°	5.1°	4.5°	4.1°	3.7°	3.4°	3.1°	2.9°	2.7°	2.5°	2.4°	2.3°	2.1°	2.0°						
18		14.5°	10.8°	8.6°	7.2°	6.2°	5.4°	4.8°	4.3°	3.9°	3.6°	3.3°	3.1°	2.9°	2.7°	2.5°	2.4°	2.3°	2.1°	2.0°	2.0°				
19		15.3°	11.4°	9.1°	7.6°	6.5°	5.7°	5.0°	4.3°	4.1°	3.8°	3.5°	3.2°	3.0°	2.8°	2.7°	2.5°	2.4°	2.3°	2.2°	2.1°	2.0°			
20		16.1°	12.0°	9.6°	8.0°	6.8°	6.0°	5.3°	4.6°	4.3°	4.0°	3.7°	3.4°	3.2°	3.0°	2.8°	2.7°	2.5°	2.4°	2.3°	2.2°	2.1°	2.0°		
21		17.0°	12.6°	10.1°	8.4°	7.2°	6.3°	5.6°	5.0°	4.6°	4.2°	3.9°	3.6°	3.3°	3.1°	3.0°	2.8°	2.6°	2.5°	2.4°	2.3°	2.2°	2.1°	2.0°	
22		17.8°	13.2°	10.6°	8.8°	7.5°	6.6°	5.8°	5.3°	4.8°	4.4°	4.0°	3.8°	3.5°	3.3°	3.1°	2.9°	2.8°	2.6°	2.5°	2.4°	2.3°	2.2°	2.1°	2.0°
23		18.6°	13.9°	11.1°	9.2°	7.9°	6.9°	6.1°	5.3°	5.0°	4.6°	4.2°	3.9°	3.7°	3.4°	3.2°	3.1°	2.9°	2.7°	2.6°	2.5°	2.4°	2.3°	2.2°	2.1°
24		19.5°	14.5°	11.5°	9.6°	8.2°	7.2°	6.4°	5.7°	5.2°	4.8°	4.4°	4.1°	3.8°	3.6°	3.4°	3.2°	3.0°	2.9°	2.7°	2.6°	2.5°	2.4°	2.3°	2.2°
25		20.3°	15.1°	12.0°	10.0°	8.6°	7.5°	6.6°	6.0°	5.4°	5.0°	4.6°	4.3°	4.0°	3.7°	3.5°	3.3°	3.1°	3.0°	2.8°	2.7°	2.6°	2.5°	2.4°	2.3°
26			15.7°	12.5°	10.4°	8.9°	7.8°	6.9°	6.2°	5.7°	5.2°	4.8°	4.4°	4.1°	3.9°	3.7°	3.5°	3.3°	3.1°	3.0°	2.8°	2.7°	2.6°	2.5°	2.4°
27			16.3°	13.0°	10.8°	9.2°	8.1°	7.2°	6.3°	5.9°	5.4°	5.0°	4.6°	4.3°	4.0°	3.8°	3.6°	3.4°	3.2°	3.1°	2.9°	2.8°	2.7°	2.6°	2.5°
28			17.0°	13.5°	11.2°	9.6°	8.4°	7.4°	6.7°	6.1°	5.6°	5.1°	4.6°	4.3°	4.0°	3.9°	3.7°	3.5°	3.3°	3.2°	3.0°	2.9°	2.8°	2.7°	2.6°
29			17.6°	14.0°	11.6°	9.9°	8.7°	7.7°	6.9°	6.3°	5.8°	5.3°	5.0°	4.5°	4.2°	4.1°	3.8°	3.6°	3.5°	3.3°	3.1°	3.0°	2.9°	2.8°	2.7°
30			18.2°	14.5°	12.0°	10.3°	9.0°	8.0°	7.2°	6.5°	6.0°	5.5°	5.1°	4.8°	4.5°	4.2°	4.0°	3.8°	3.6°	3.4°	3.3°	3.1°	3.0°	2.9°	2.8°
31			18.8°	15.0°	12.4°	10.6°	9.3°	8.3°	7.4°	6.7°	6.2°	5.7°	5.3°	4.9°	4.6°	4.4°	4.1°	3.9°	3.7°	3.5°	3.4°	3.2°	3.1°	3.0°	2.9°
32			19.5°	15.5°	12.8°	11.0°	9.6°	8.5°	7.7°	7.0°	6.4°	5.9°	5.5°	5.1°	4.8°	4.5°	4.2°	4.0°	3.8°	3.6°	3.5°	3.3°	3.2°	3.1°	3.0°
33			20.1°	16.0°	13.2°	11.3°	9.9°	8.8°	7.9°	7.2°	6.6°	6.1°	5.6°	5.3°	4.9°	4.6°	4.4°	4.2°	3.9°	3.8°	3.6°	3.4°	3.3°	3.2°	3.1°
34			20.7°	16.5°	13.7°	11.7°	10.2°	9.1°	8.1°	7.4°	6.8°	6.3°	5.8°	5.4°	5.1°	4.8°	4.5°	4.3°	4.1°	3.9°	3.7°	3.5°	3.4°	3.3°	3.2°
35				17.0°	14.1°	12.0°	10.5°	9.3°	8.4°	7.6°	7.0°	6.4°	6.0°	5.6°	5.2°	4.9°	4.6°	4.4°	4.2°	4.0°	3.8°	3.6°	3.5°	3.4°	3.3°
36				17.5°	14.5°	12.4°	10.8°	9.6°	8.6°	7.8°	7.2°	6.6°	6.2°	5.7°	5.4°	5.1°	4.8°	4.5°	4.3°	4.1°	3.9°	3.7°	3.6°	3.4°	3.3°
37				18.0°	14.9°	12.7°	11.1°	9.9°	8.9°	8.1°	7.4°	6.8°	6.3°	5.9°	5.5°	5.2°	4.9°	4.7°	4.4°	4.2°	4.0°	3.8°	3.7°	3.5°	3.4°
38				18.5°	15.3°	13.1°	11.4°	10.1°	9.1°	8.3°	7.6°	7.0°	6.5°	6.1°	5.7°	5.3°	5.0°	4.8°	4.5°	4.3°	4.1°	3.9°	3.8°	3.6°	3.5°
39				19.0°	15.7°	13.4°	11.7°	10.4°	9.4°	8.5°	7.8°	7.2°	6.7°	6.2°	5.8°	5.5°	5.2°	4.9°	4.7°	4.4°	4.2°	4.1°	3.9°	3.7°	3.6°
40				19.5°	16.1°	13.8°	12.0°	10.7°	9.7°	8.7°	8.0°	7.4°	6.8°	6.4°	6.0°	5.6°	5.3°	5.0°	4.8°	4.6°	4.3°	4.2°	4.0°	3.8°	3.7°
41				20.0°	16.5°	14.1°	12.3°	10.9°	9.8°	8.9°	8.2°	7.6°	7.0°	6.5°	6.1°	5.8°	5.4°	5.2°	4.9°	4.7°	4.5°	4.3°	4.1°	3.9°	3.8°
42				20.5°	17.0°	14.5°	12.6°	11.2°	10.1°	9.2°	8.4°	7.7°	7.2°	6.7°	6.3°	5.9°	5.6°	5.3°	5.0°	4.8°	4.6°	4.4°	4.2°	4.0°	3.9°
43					17.4°	14.8°	12.9°	11.5°	10.3°	9.4°	8.6°	7.9°	7.4°	6.9°	6.4°	6.0°	5.7°	5.4°	5.1°	4.9°	4.7°	4.5°	4.3°	4.1°	4.0°
44					17.8°	15.2°	13.2°	11.8°	10.6°	9.6°	8.8°	8.1°	7.5°	7.0°	6.6°	6.2°	5.8°	5.5°	5.3°	5.0°	4.8°	4.6°	4.4°	4.2°	4.1°
45					18.2°	15.5°	13.6°	12.0°	10.8°	9.8°	9.0°	8.3°	7.7°	7.2°	6.7°	6.3°	6.0°	5.7°	5.4°	5.1°	4.9°	4.7°	4.5°	4.3°	4.2°
46					18.6°	15.9°	13.9°	12.3°	11.1°	10.0°	9.2°	8.5°	7.9°	7.3°	6.9°	6.5°	6.1°	5.8°	5.5°	5.2°	5.0°	4.8°	4.6°	4.4°	4.3°
47					19.0°	16.2°	14.2°	12.6°	11.3°	10.3°	9.4°	8.7°	8.0°	7.5°	7.0°	6.6°	6.2°	5.9°	5.6°	5.4°	5.1°	4.9°	4.7°	4.5°	4.4°
48					19.5°	16.6°	14.5°	12.8°	11.5°	10.5°	9.6°	8.8°	8.2°	7.7°	7.2°	6.8°	6.4°	6.0°	5.7°	5.5°	5.2°	5.0°	4.8°	4.6°	4.5°
49					19.9°	17.0°	14.8°	13.1°	11.8°	10.7°	9.8°	9.0°	8.4°	7.8°	7.3°	6.9°	6.5°	6.2°	5.9°	5.6°	5.3°	5.1°	4.9°	4.7°	4.6°
50					20.3°	17.3°	15.1°	13.4°	12.0°	10.9°	10.0°	9.2°	8.6°	8.0°	7.5°	7.0°	6.6°	6.3°	6.0°	5.7°	5.4°	5.2°	5.0°	4.8°	4.6°

1:12 = 4.8° | 1:8 = 7.1° | 1:6 = 9.6°
Please refer to your equipment's user guide for maximum allowable slope.

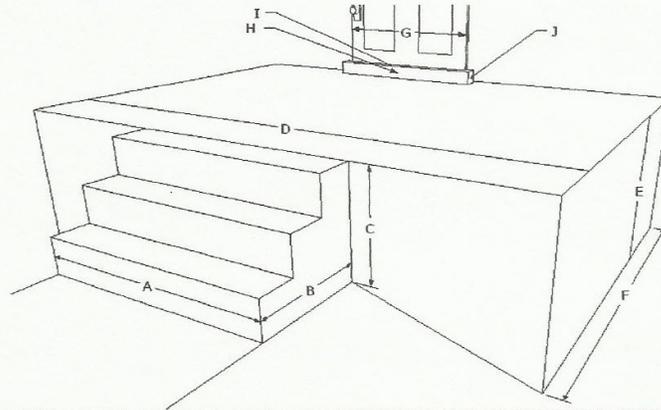
ENTRY REFERENCE WORKSHEET

PROJECT # _____

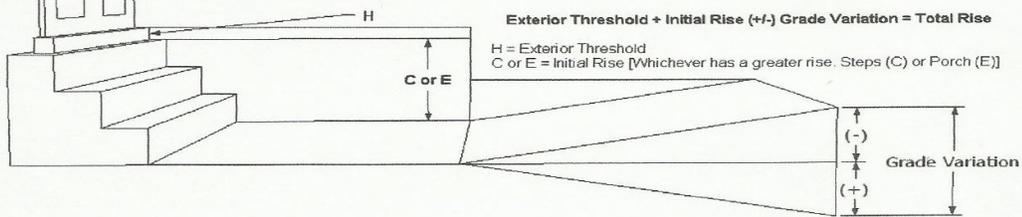
SECTION 1 - EVALUATOR'S NAME	SECTION 2 - END USER NAME
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NOTE: All measurements that do not apply to the entry are to be given a value of 0

SECTION 3 - ENTRY DIAGRAM



SECTION 4 - TOTAL RISE DIAGRAM



SECTION 5 - MEASUREMENTS

- WIDTH OF STEPS (or between the hand rail) A= _____
- DEPTH OF STEPS..... B= _____
- RISE OF STEPS C= _____
- WIDTH OF PORCH (if differs from steps)..... D= _____
- RISE OF PORCH (if differs from steps) E= _____
- DEPTH OF PORCH F= _____
- WIDTH OF DOOR (usable space)..... G= _____
- RISE OF EXTERIOR THRESHOLD H= _____
- RISE OF INTERIOR THRESHOLD I= _____
- DEPTH OF THRESHOLD J= _____

SECTION 6 - CLARIFYING QUESTIONS

- RISE OF EXTERIOR THRESHOLD H= _____
- INITIAL RISE OF STEPS/PORCH +C or E= _____
- * GRADE VARIATION (if any) + or - _____
- TOTAL RISE = _____
- IS A BRIDGE PLATE REQUIRED? (yes or no) _____
- THE DOOR OPENS (in or out/left or right) _____

* Any ground variations should be added (decline) or subtracted (incline) from the total rise.

EZ-ACCESS, along with most regulatory agencies, recommends 1-foot of ramp run per 1-inch of rise in height (1:12 ratio). For example, if a porch and steps have a total rise of 20-inches, a ramp with a 20-foot run would be required. Please note that this does not include platforms that may be necessary for the ramp system.

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