

Powerchair Maximum Rated

Slope Comparison Chart



A powerchair's capability to drive up slopes can be impacted by the user weight, speed and the powerchair setup. Manufacturers therefore provide a maximum slope of incline that each powerchair can safely ascend or descend and we recommend users do not exceed the maximum allowable incline listed in the chart below:

MAXIMUM TESTED RATED SLOPE CHART		
POWERCHAIR	DEGREE	PERCENTAGE
Quantum Edge 3	7.5°	13.20%
Quantum Edge 3 Stretto	7.5°	13.20%
Quantum Q6 Edge HD	7.5°	13.20%
Quantum 4FRONT	7.5°	13.20%
Quantum 1450 Powerchair	6°	10.50%
Quantum R44	6°	10.50%
Jazzy 623 2.0	7.5°	13.20%
Karma KP25.2	10°	17.60%

The Ministry of Health recommends outdoor ramps have a slope of no more than 1 metre rise to every 12 metres of length (a ratio of 1:12) to make it safe and easy to use. A longer ramp with a milder slope is best and the steeper the incline, the higher the chance of problems occurring such as scraping footrests and tipping.

Please refer to the following table for some common slopes, you can see a 1:12 ratio is equivalent to a 4.76° slope and all our powerchairs are able to be used at this ratio and beyond. When travelling on streets and unregulated slopes, however, the user or caregiver will need to estimate the incline and decide if it is below the maximum gradient allowed for the powerchair. If unsure it is best to take find alternative routes if possible.

DEGREE	GRADIENT	PERCENTAGE
1°	1:57.29	1.70%
1.15°	1:50	2.00%
1.19°	1:48	2.08%
2.86°	1:2	5.00%
4.76°	1:12	8.30%
7.13°	1:8	12.50%
10°	1:5.67	17.60%
14.04°	1:4	25.00%
15°	1:3.73	26.80%
30°	1:1.73	57.70%
45°	1:1	100.00%