

RAMP INFORMATION SHEET

NOTE: Specifications and figures are provided from Accessible Design for the Built Environment, Registered trade-mark of Canadian Standards Association, 2004; Canadian Standards Association, 5060 Spectrum Way, Suite 100 Mississauga, Ontario L4W 5N6. Measurement Scale used: 25.4 mm = 2.54 cm = 1 inch

Ramp Specifications

Allowable Slopes and Required Handrails

Maximum Slope	Maximum Length	Maximum Height	Minimum Width	Handrails
1:20	none	none	920 mm or 36 inches	none
1:16	12000 mm or 40 feet	750 mm or 30 inches	920 mm or 36 inches	Handrails on 2 sides if over 2000 mm or 80 inches
1:12	9000 mm or 30 feet	750 mm or 30 inches	920 mm or 36 inches	Handrails on 2 sides if over 2000 mm or 80 inches

- The slope of the ramp should be as gentle as possible. The steeper the ramp, the more likely persons in wheelchairs will require some assistance.
- The slope should be no steeper than 1:12. This means a rise of 300 mm (12 inches) for every 3660 mm (144 inches or 12 feet) of ramp length.
- The maximum cross slope of the ramp is 1:50.

If the ramp is not adjacent to a wall, an edge protection is required:

- A curb with a minimum height of 75 mm (3 inches)
- A raised barrier with its lower edge not more than 75 mm (93 inches) from the ramp.
- A rail with the bottom edge not more than 75 mm (3 inches) from the ramp.

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Landings

Landings should be available:

- At the top and bottom of a ramp.
- Whenever there is a change in the direction of a ramp.

The landing should:

- Be at least as wide as the widest ramp run leading to it.
- Have a minimum length of 1500 mm (59 inches).
- Have a minimum size not less than 1500 mm (59 inches) x 1500 mm (59 inches) if served by a doorway.

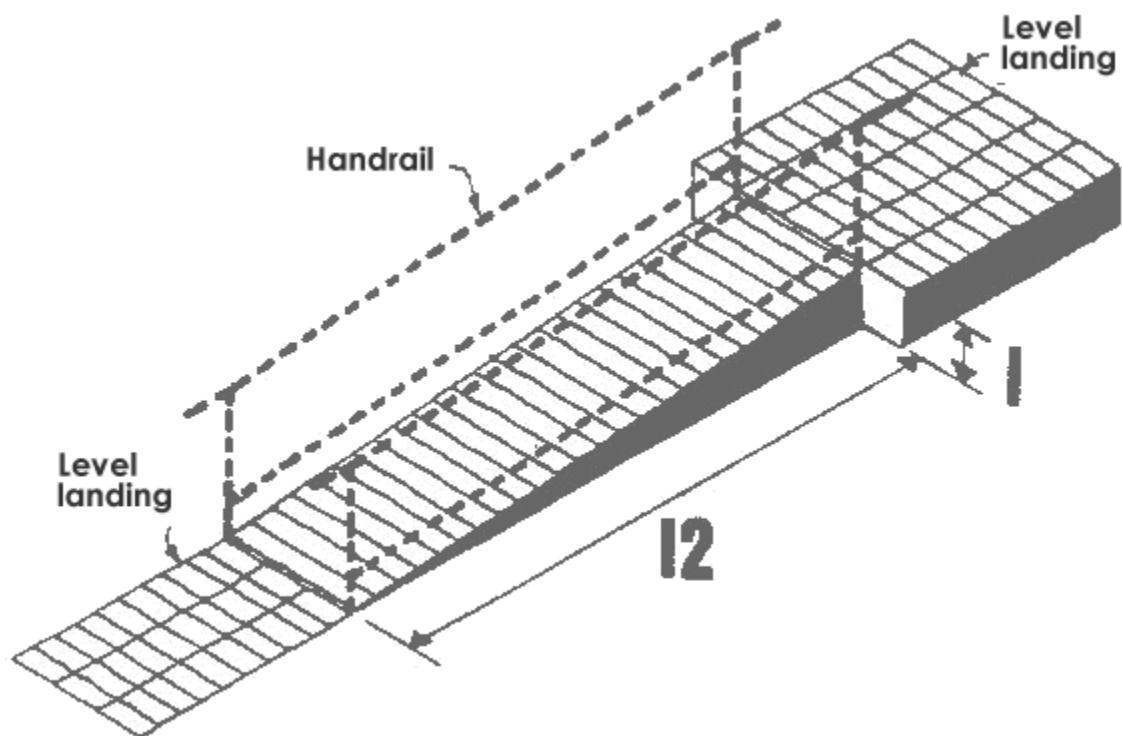


Figure 1 - Freestanding Ramp

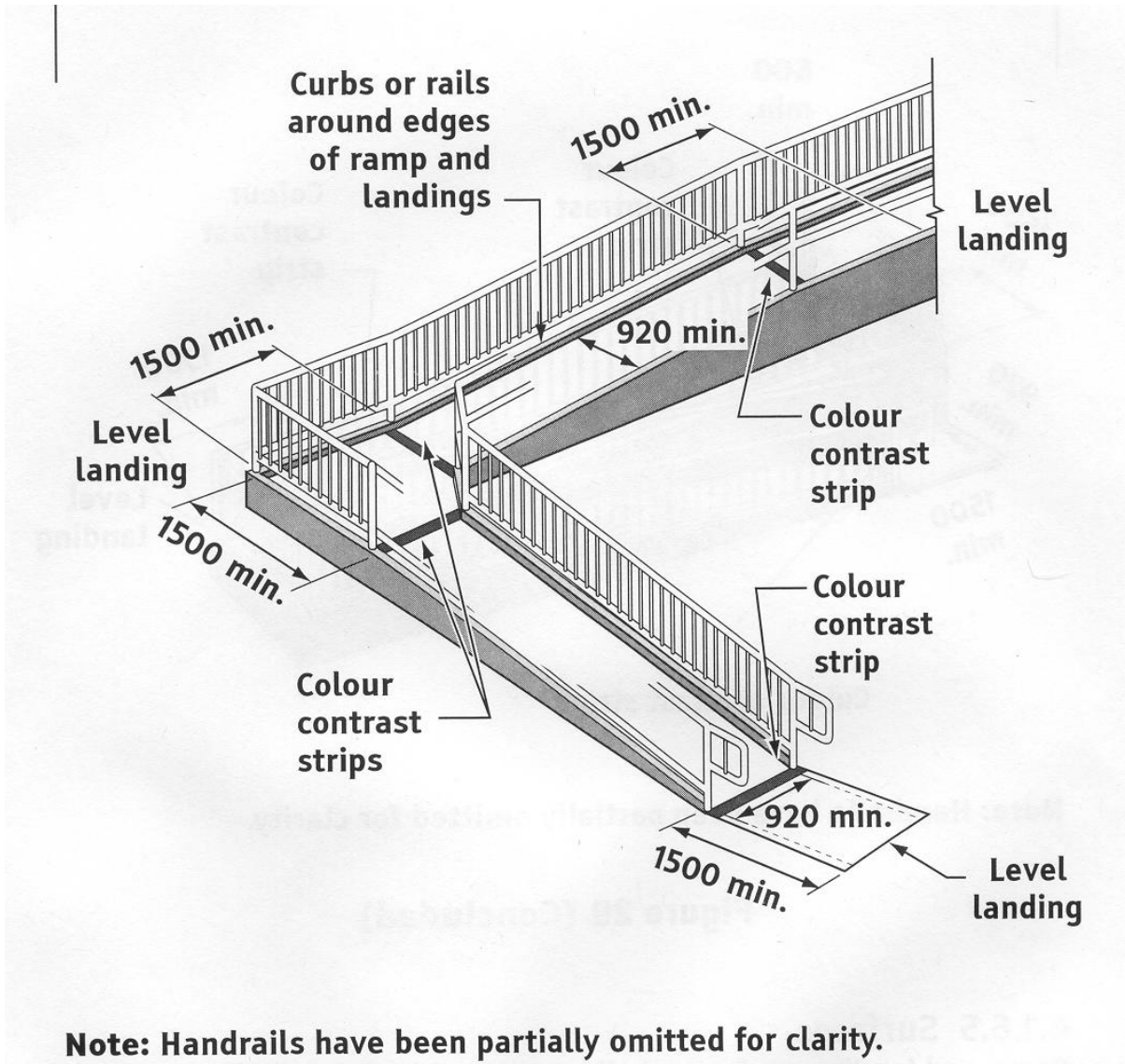


Figure 2 - Ramps and Landings (1)

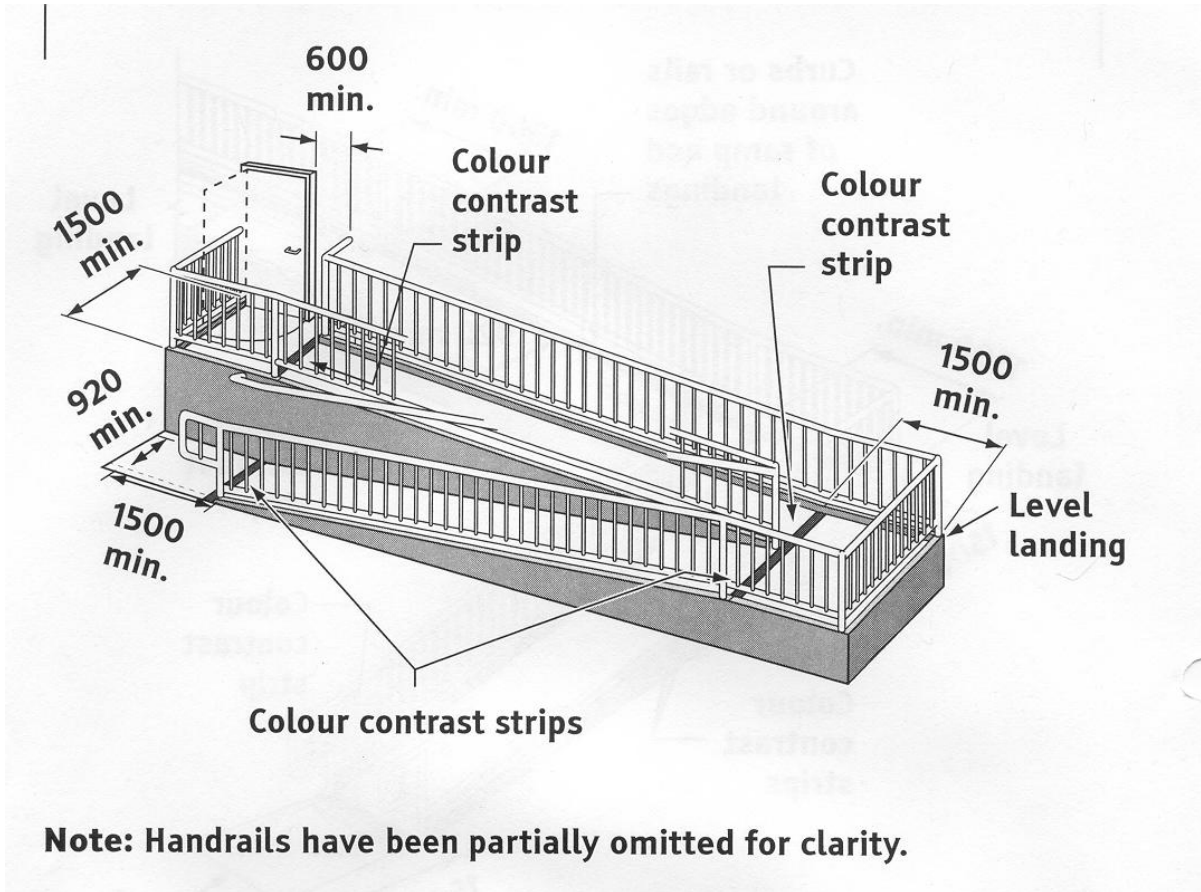


Figure 3 - Ramps and Landings (2)

Handrails

Handrails should:

- Be provided on both sides of the ramp.
- Be continuous and extend at least 300 mm (12 inches) beyond the bottom and the top of the ramp and return to the wall or the floor.
- Be at a height of 860 mm (34 inches) to 920 mm (36 inches).
- Be at the top and the bottom of the ramp.
- Provide tactile cues for persons with visual impairments and provide support for persons who need help to negotiate ramps.
- The diameter of the handrails should be between 30 mm (1 1/4 inches) and 40 mm (1 3/4 inches).
- Be free of any sharp or abrasive elements.
- Have a handrail shape that is easy to grasp.

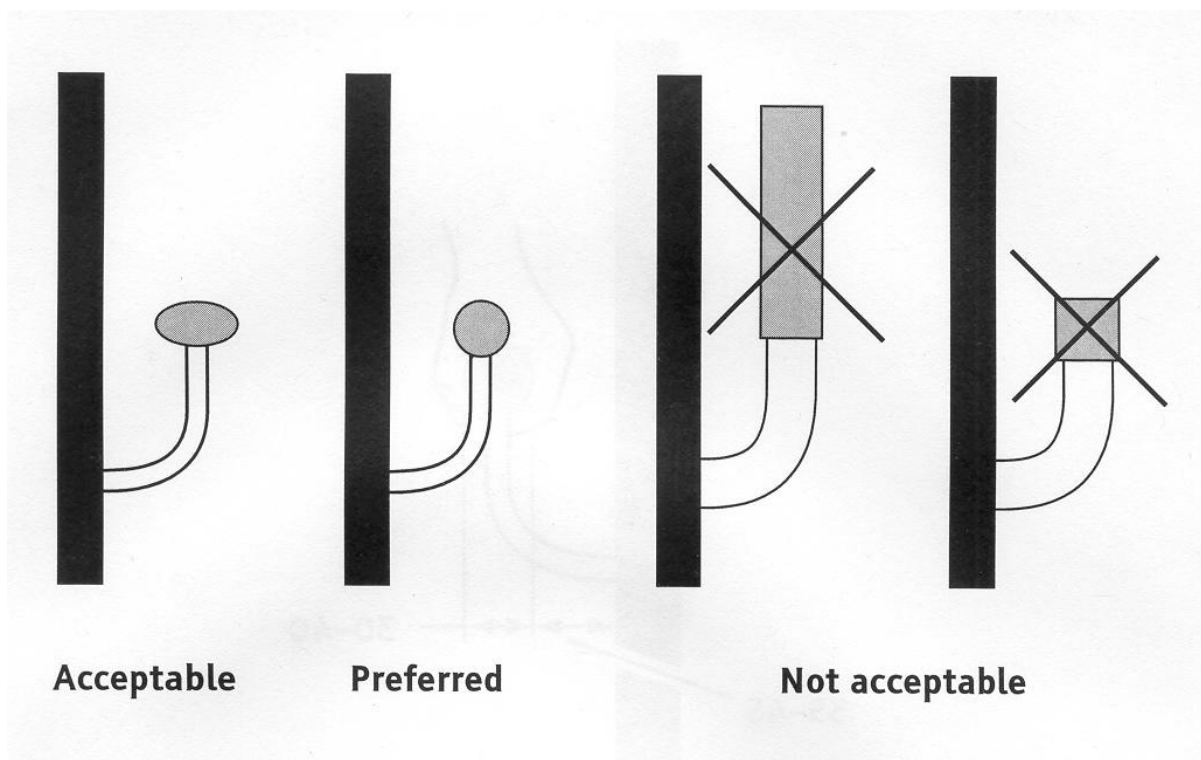


Figure 4 - Handrail Shapes

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Ramp and Floor Surfaces

Ramps should be protected from rain, ice and snow.

All floor surfaces should be slip resistant. Below is a table rating slip resistant floor surfaces.

Material Used	Dry and Unpolished	Wet
Clay tiles (Carborundum Finish)	Very Good	Very Good
Carpet	Very Good	Good
Clay Tiles (Textured)	Very Good	Good
Cork Tiles	Very Good	Good
PVC with Non Slip Granules	Very Good	Good
PVC	Very Good	Poor to Fair
Rubber (Sheet or Tiles)	Very Good	Very Poor
Mastic Asphalt	Good	Good
Vinyl Asbestos Tiles	Good	Fair
Linoleum	Good	Poor to Fair
Concrete	Good	Poor to Fair
Concrete (Abrasive Grain Finish)	Very Good	Very Good
Concrete (Broom Textured)	Very Good	Good
Granolithic	Good	Poor to Fair
Cast Iron	Good	Poor to Fair
Clay Tiles	Good	Poor to Fair
Terrazzo	Good	Poor to Fair