

Accessible / Barrier Free Ramp Design

As required by the 2022 Nova Scotia Building Code Regulations (Accessibility Schedule "C") & the 2015 National Building Code of Canada

Power Door Operator:

A power door operator is required on every Barrier Free entrance where:

- The entrance is for a Hotel, Group B - Care or Treatment occupancy (i.e. a Care Home),
- The building or suite is more than 500 m² (5,382 ft²) in building area and contains a Group A - Assembly (i.e. Restaurant), a Group D - Business & Personal Services (i.e. Office), or a Group E - Mercantile (i.e. Store) occupancy, or
- Where it takes more than 38N (8 ½ lbs) of force to operate and external, or 22N (5 lbs) of force to operate and internal or sliding Barrier Free door.

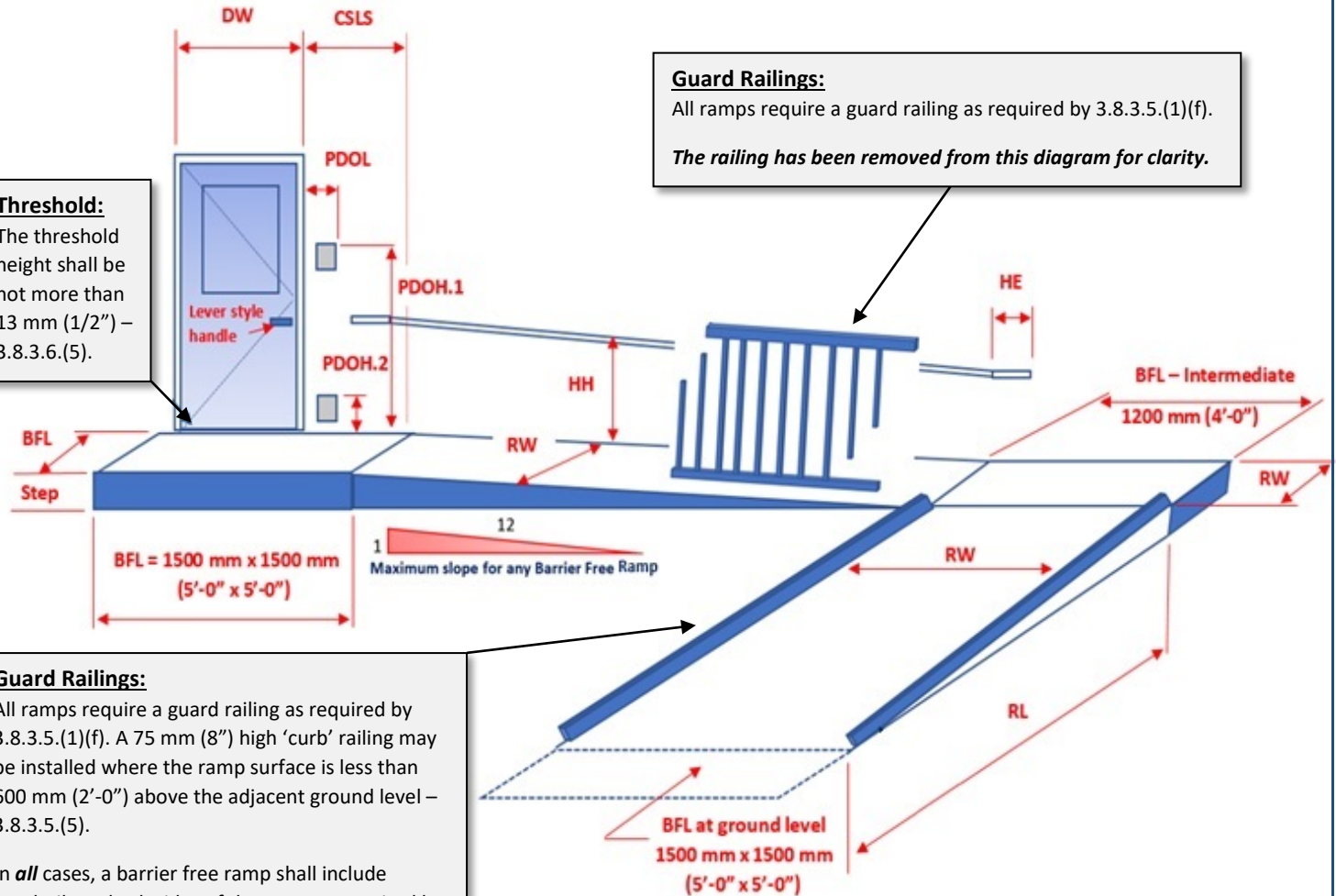
Guard Railings:

All ramps require a guard railing as required by 3.8.3.5.(1)(f).

The railing has been removed from this diagram for clarity.

Threshold:

The threshold height shall be not more than 13 mm (1/2") - 3.8.3.6.(5).



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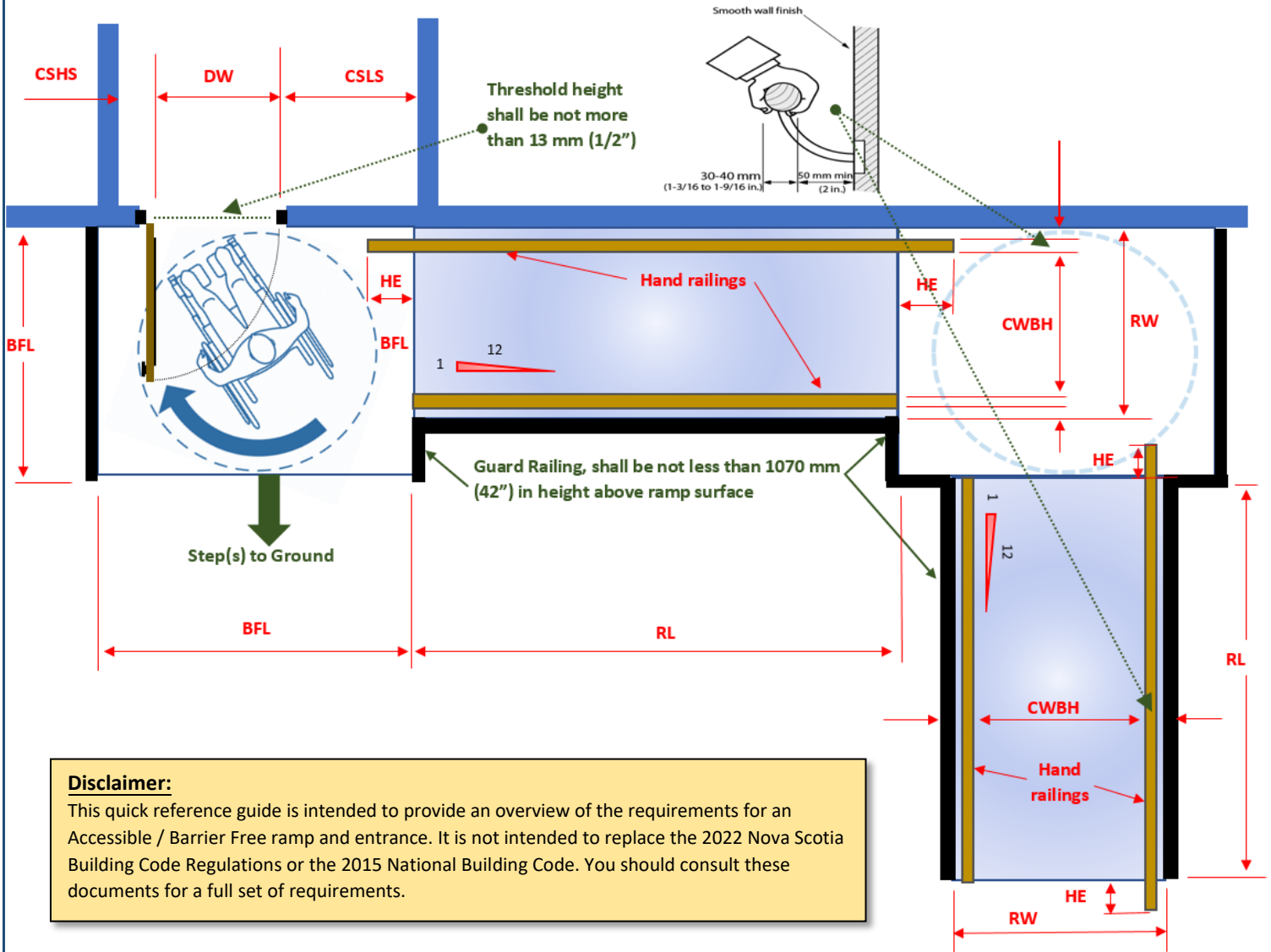
All ramps require a guard railing as required by 3.8.3.5.(1)(f). A 75 mm (8") high 'curb' railing may be installed where the ramp surface is less than 600 mm (2'-0") above the adjacent ground level - 3.8.3.5.(5).

In **all** cases, a barrier free ramp shall include handrails on both sides of the ramp as required by 3.8.3.5.(1)(e) and 3.4.6.5.(15)

Short Description	Description	Minimum	Maximum	Code Reference
BFL	Barrier Free Landing	1500 x 1500 mm (5' x 5')	No Limit	3.8.3.5.(1)(c).
CSLS	Clear Space Latch Side	300 mm (1'-0") door swings away or 600 mm (2'-0") door swings towards	No Limit	3.8.3.5.(1)(c).
CWBH	Clear Width Between Handrails	870 mm (2'-10.25" or 34 ¼")	No Limit	3.8.3.5.(1)(a). and 3.4.6.5.(2).
DW	Doorway width (clear space)	800 mm (2'- 7 1/2" or 31 ½")	No Limit	3.8.3.6.(2).
HH	Handrail Height	865 mm (2'-10" or 34")	965 mm (3'-2" or 38")	3.8.3.5.(1)(e).
HE	Handrail Extensions	300 mm (1'-0")	No Limit	3.4.6.5.(12).
PDOL	Power Door Operator Location	300 mm (1'-0")	1500 mm (5' or 60")	3.8.3.6.(6)(a).
PDOH.1	Power Door Operator Height - 1	900 mm (3'-0" or 36")	1100 mm (3'-7" or 43")	3.8.2.7.(1). and 3.8.3.6.(6)
PDOH.2	Power Door Operator Height - 2	150 mm (6")	300 mm (1'-0" or 12")	3.8.2.7.(1). and 3.8.3.6.(6)
RL	Ramp Length between landings	Based on 1:12 max. ramp slope	9.0 meters (29'-6")	3.8.3.5.(1)(d).
RW	Total Ramp Width	1070 mm (42")	No Limit	3.8.3.5.(1)(e). and 3.4.6.5.(15).

Acceptable Ramp & Entrance Design Options

That meet the intent of Articles 3.8.2.1 to 3.8.2.6 of the 2022 Nova Scotia Building Code Regulations



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RW	Total Ramp Width	1070 mm (42")	No Limit	3.8.3.5.(1)(e). and 3.4.6.5.(15).
(Inset image)	Handrail clearance to wall	50 mm (2") or 60 mm (2 ½")	Not applicable	3.4.6.5.(13).
(Inset image)	Diameter of handrail	30 mm (1 3/16")	43 mm (1 ¾")	3.4.6.5.(5).
(Inset image)	Guard railing (height)	1070 mm (42")	Not applicable	3.8.3.5.(1)(f). and 3.4.6.6.