

# BC BUILDING CODE INTERPRETATION COMMITTEE

A joint committee with members representing  
**AIBC, EGBC, BOABC**

**File No: 18-0223**

**INTERPRETATION**

**Page 1 of 1**

Interpretation Date:	December 13, 2022
Building Code Edition:	BC Building Code 2018
Subject:	Height of handrails
Keywords:	Handrail height
Building Code Reference(s):	3.4.6.5.(7); 9.8.7.4.
<b>Question:</b>	<p>Is it acceptable to have a handrail installed with variable heights along the length of stair flights, ramp or landings?</p>
<b>Interpretation:</b>	<p>Yes, with caution.</p> <p>The BCBC 2018 provides a range of handrail installation heights from 865mm to 1070mm. There is no requirement that this height be uniform along the length of the stair flight, landing or ramp.</p> <p>However, the handrail must provide a steady support for persons using it and a change in height along the flight of stairs, ramp or landing may cause a loss of balance. It is highly recommended that the height of the handrail be consistent throughout the length of each flight of stairs, ramps and landings.</p> <p>In some locations, such as at the change of stair direction, it may be better to slope the handrail between two successive flights instead of creating a vertical drop in the handrail, as this rapid change in height may be more destabilizing or break the grip of the user.</p> <p>This principle was accepted by BC Appeal Board Ruling #1667.</p>
	<p></p> <hr/> <p>Patrick Shek, P.Eng., CP, FEC, Committee Chair</p>
	<p>The views expressed are the consensus of the joint committee with members representing AIBC, EGBC and BOABC, which form the BC Building Code Interpretation Committee. The Building and Safety Standards Branch, Province of BC and the City of Vancouver participate in the committee's proceedings with respect to interpretations of the BC Building Code. The purpose of the committee is to encourage uniform province wide interpretation of the BC Building Code. These views should not be considered as the official interpretation of legislated requirements based on the BC Building Code, as final responsibility for an interpretation rests with the local <i>Authority Having Jurisdiction</i>. The views of the joint committee should not be construed as legal advice.</p>



## **BCAB #1667 - Height of Handrails, Sentence 3.4.6.4.(4)**

March 12, 2010

### **BCAB #1667**

**Re: Height of Handrails, Sentence 3.4.6.4.(4)**

#### **Project Description**

This appeal involves the continuous handrail as it wraps around centre wall at landings between flights. The handrail is 36 inches above the nosing until a few inches before the bottom of the flight where it slopes a bit more steeply to meet the portion of the handrail wrapping around the end of the centre wall. The other option would have been to maintain the handrail's slope parallel to the nosings and drop vertically the few inches to meet the handrail wrapping around the end of the centre wall.

#### **Reason for Appeal**

Sentence 3.4.6.4.(4) requires handrails to be ". . . not less than 865 mm (34") and not more than 965 mm (38") high . . ." Sentence 3.4.6.4.(5) requires at least one handrail to be continuous throughout the length of the stairway, including landings.

#### **Appellant's Position**

The appellant contends that the handrail conforms to Sentence 3.4.6.4.(4) because it is never more than 965 mm nor less than 865 mm above the nosings and nowhere does the Code require the handrail to be parallel to the line through the nosings.

#### **Building Official's Position**

The building official maintains that Sentence 3.4.6.4.(4) gives an acceptable installation range between 865 mm and 965mm measured vertically from a line drawn through the outside edges of the stair nosing. The installer / manufacturer chooses and maintains an installation height within the specified range, parallel to the tread nosing.

#### **Appeal Board Decision #1667**

It is the determination of the Board that the handrail design is in conformance with the requirements of Sentences 3.4.6.4.(4) and (5). The handrail height is within the specified height range and is continuous. There is no requirement for the handrail to be parallel with the line drawn through the stair nosings.

George Humphrey, Chair

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