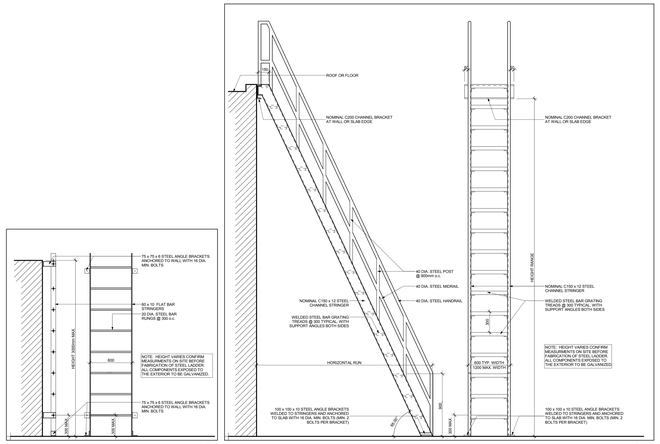
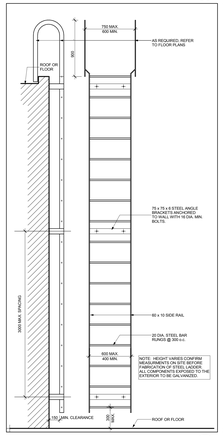
Typical Ladder, 3000mm High 7 A6-00

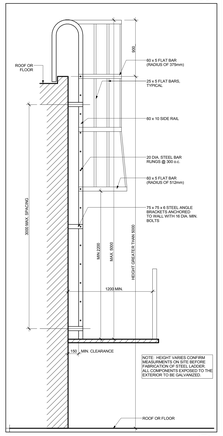


Typical Ladder, Ships Ladder 4 A6-00

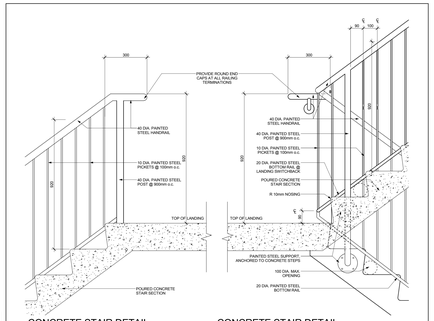


Typical Ladder, 5000mm High 6 A6-00

Typical Ladder, 9000mm High 5 A6-00

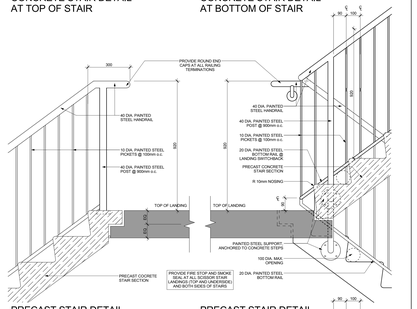


Typical Ladder, Elevated 3 A6-00



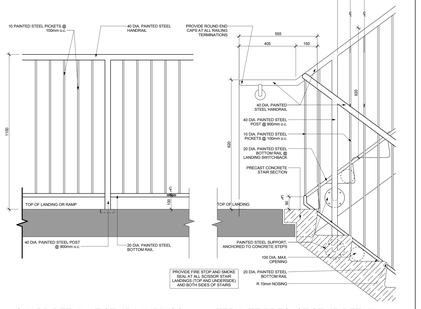
CONCRETE STAIR DETAIL AT TOP OF STAIR

CONCRETE STAIR DETAIL AT BOTTOM OF STAIR



PRECAST STAIR DETAIL AT TOP OF STAIR

PRECAST STAIR DETAIL AT BOTTOM OF STAIR



GUARD DETAIL AT STAIR LANDINGS AND AT RAMPS

ALTERNATE PRECAST STAIR DETAIL AT BOTTOM OF STAIR

FLOOR NUMBERING NOTES:

1. ARABIC NUMERALS INDICATING THE ASSIGNED FLOOR NUMBER SHALL
a) BE FIXED PERMANENTLY ON EACH SIDE OF DOORS TO EXIT STAIR SHAFTS;
b) BE NOT LESS THAN 60mm HIGH, RAISED APPROX. 0.7m ABOVE SURFACE
c) BE LOCATED 1500mm FROM THE FINISHED FLOOR, AND BE CONTRASTING IN COLOUR WITH THE SURFACE TO WHICH THEY ARE APPLIED.
2. UPPER CASE LETTER INDICATING THE DESIGNATION ASSIGNED TO EACH EXIT STAIR SHAFT SHALL BE MOUNTED PERMANENTLY ON EACH SIDE OF DOORS TO THE EXIT STAIR SHAFT AND SHALL
a) BE NOT LESS THAN 60mm HIGH, RAISED APPROX. 0.7mm ABOVE THE SURFACE;
b) BE LOCATED 1500mm FROM THE FINISHED FLOOR, AND
c) BE CONTRASTING IN COLOUR WITH THE SURFACE TO WHICH THEY ARE APPLIED.
3. FLOOR NUMBERS ARE TO BE PROVIDED ON THE STAIRWELL SIDE OF EACH DOOR AND ALL STAIRWELLS ARE TO BE COLOUR-CODED AS PER O.B.C. 3.4.6.18.

ALL HATCHED PROFILES ON AB SERIES DRAWINGS INDICATE PRECAST CONCRETE STAIR SECTIONS

STAIR AND STAIRWELL CONSTRUCTION NOTES:

1. EXTENSION OF CLEAR SPACE TO BE MAINTAINED BETWEEN WALL HANDRAILS AND STAIR WALLS TO 50 SET AT 50mm MINIMUM, FOR A 40mm DIAMETER HANDRAIL, CENTRE LINE OF WALL HANDRAIL IS 70mm FROM STAIR WALL. (MAXIMUM OVERALL EXTENSION OF WALL HANDRAIL FROM STAIR WALL TO BE 100mm.)
2. REFER TO STAIR SERIES, AB DRAWINGS FOR LOCATIONS OF STAIRS WITHIN STAIRWELLS (TYP.). COORDINATE SLAB EDGE PROFILE AND LOCATION WITH PRECAST STAIR SHOP DRAWINGS.
3. PROVIDE MINIMUM 750mm CLEARANCE BETWEEN THE LEADING EDGE OF ALL EXIT STAIR DOORS AND CENTER WALLS OR STAIR GUARDS.
4. THE IDENTIFICATION OF FLOOR AND OTHER SIGNS INTENDED TO FACILITATE ORIENTATION FOR VISUALLY IMPAIRED PERSONS SHOULD BE PRINTED IN BRAILLE AND LARGE PRINT. WHITE ON BLACK FOR REASON, IT IS RECOMMENDED THAT WHITE ON BLACK OR BLACK ON WHITE BE USED, AS THIS COMBINATION PRODUCES THE BEST LEGIBILITY. IT IS ALSO RECOMMENDED THAT THE SIGN SURFACES BE PROCESSED TO PREVENT GLARE.

Typical Stair, Railing, Details and Notes 2 A6-00

Ontario — The Office of the Fire Marshal

GUIDELINES FOR STAIRWELL SIGNS IN MULTI-STOREY BUILDINGS

Introduction

This guideline contains guidance for building owners and property managers to assist them in installing suitable directional egress signs within stairwells and signs intended to instruct people about the proper exit route in the event of fire.

Deaths have occurred in high-rise buildings when people have inappropriately tried to escape through the roof or have gone down the stairs to the wrong exit door at ground level. In these instances, the stairways did not contain access to the roof and the people perished when they were overcome by smoke. The signs contained in this guideline are intended to prevent people from making these kinds of mistakes in the future.

The signs identified in this guideline were jointly developed through consultation with various organizations. The signs are of a universal nature intended to be easily understood by people who speak different languages. The signs are to be installed in a suitable location that would be visible to people using a stairway to evacuate the building in a fire emergency.

The directional egress signs are intended to prompt people to travel in the correct direction in order to exit from the building. The precautionary signs are intended to warn people not to enter a dead-end portion of a stairwell.

The use of these signs reinforce the emergency evacuation procedures outlined in the building's fire safety plan.

People must be aware that they have to take precautions to protect themselves from smoke and fire while they are evacuating a building. If the stairway they are using to evacuate is blocked, they must be able to use an alternate stairwell to proceed to evacuate. If the alternate stairwell contains smoke, the people should find refuge in a suite, taking precautions to protect themselves.

DIRECTION OF EGRESS SIGN

Sign Purpose

People may not be familiar with the stairwell exiting arrangements of each building they enter. They may not know whether they should go up or down the stairs to exit the building in the event of an emergency.

The direction of egress signs are intended to indicate the direction of egress (travel) within a stairwell for the purpose of evacuating the building in an emergency.

Sign Content and Colour

- Each sign shall depict the figure of a person walking down or up stairs. The sign shall include the word(s) "EXIT" or "EXITSORTIE" and a directional arrow displayed below the figure in contrasting colour to the background of the sign.
- The minimum vertical and horizontal dimensions of each sign shall not be less than 150 mm.
- The sign shall be contrasting in colour so that the sign is clearly visible on the background it is installed on. Green background is the recommended colour (contact contractor for this sign).
- The sign shall have a contrasting border around the perimeter, where the sign is installed on a wall surface of a similar shade or colour.

Refer below to the example of signs depicting the variety of orientations which may be required to indicate the direction of egress. Refer to the table of directional sign conforming to the minimum size requirements referred to above.

Installation Criteria

- A sign shall be permanently installed and maintained:
  - on each floor, stairwell, and at each landing which provides access to the doors from each storey in the building.

- Each sign referred to above shall be installed:
  - directly above the first stair riser(tread) which leads in the direction of travel to the exit from that point within the stairwell; and
  - the bottom of the sign shall not be less than 1200 mm, and the bottom of the sign shall be no more than 1700 mm above the first riser(tread).

- The direction of egress depicted by the person figure in the sign shall be oriented in the direction of travel to the exit from the point within the stairwell at which the sign is installed. (Refer to the figures on the previous page.)
- Additional signs may be installed within the stairwell.

WARNING SIGNS

TOP OF STAIRWAY TERMINATES AT A DEAD-END

Purpose

There are two types of signs intended to warn people not to go up the stairs because the stairway terminates at a dead-end portion of a stairway. This has been a problem for a number of people who have died in a dead-end portion of stairwells where they had been overcome by smoke during a serious fire.

In instances where a sign of this nature is required, the owner may choose to install signs that are conforming to one, or both options identified below.

(Option A)

Content for a Wall Sign

- Each sign shall depict the figure of a person walking up stairs with a universal "no" symbol (circle with a bar crossing out the activity) and the words NO EXIT TO ROOF / PAS DE SORTIE SUR LE TOIT displayed below the universal no symbol.
- The outside diameter of the universal "no" symbol (red circle with a bar crossing out an activity) shall not be less than 140 mm (5.52 in).

Colour at Wall Sign (Option A)

- Black figure of a person, stairs, and text on a white background. The universal "no" circle with a slash through its shall be red.

(Option B) Content for a Precautionary Sign Installed on a Stairway River

- Each sign shall depict the figure of a person walking up stairs with a universal "no" symbol (circle with a bar crossing out the underlined activity) and the words NO EXIT TO ROOF / PAS DE SORTIE SUR LE TOIT displayed below the universal no symbol.
- The outside diameter of the universal "no" symbol (red circle with a cross through it) shall not be less than 60 mm (2.36 in).
- The letters of the text NO EXIT TO ROOF / NO EXIT TO ROOF / PAS DE SORTIE SUR LE TOIT shall have a stroke of not less than 6 mm (.24) and a height of not less than 25 mm (1.00 in).

Colour at Sign (Option B)

- Black figure of a person, stairs, and text on a white background. The universal "no" circle with a slash through its shall be red.

Installation Requirements for a Wall Sign (Option A)

- When this option is chosen, the sign shall be permanently installed and maintained on the wall directly above the first stairway riser(tread) that leads to a "dead end portion of a stairway.
- A dead end portion of a stairwell could include:
  - an area above the highest cross over floor in a stairwell where cross over floors are installed;
  - an area above the last normally occupied storey, where the stairway only continues to the roof (penthouse or area), or to a stairwell roof enclosure that does not have access to the roof.
- The bottom of the sign shall be not less than 1200 mm above the first riser(tread) and the top of the sign shall be not less than 1700 mm above the first riser(tread).

Installation – Stairway River Sign (Option B)

In A Stairwell With Intermediate Landings

- When this option is chosen, the sign shall be permanently installed and maintained on the stairway river directly above the first stairway riser(tread) that leads to a stairwell constructed with intermediate landings which leads to a dead-end portion of the stairway.

Installation – Stairway River Sign (Option B)

In A Scissor Stairwell (Without Intermediate Landings)

Where no intermediate landing is provided, (for example in scissors stairways) the sign shall be installed on a stairway river not less than 1.5 m and not more than 2.0 m above the entrance landing to the stairwell which leads to a dead end portion of the stairway.

SIGNS FOR BASEMENT STAIRS

Purpose

Most wall stairs are designed so that they end at the level of the exterior exit door. The purpose of this sign is to ensure that occupants are warned in those cases where a door continues past the level of the exit.

Sign Colour and Content

The Building Code (Article 3.4.5.2.) does not specify the exact content or colour of this sign. However, the content has to indicate that traveling down beyond the level of the exterior exit door does not lead to an exit. Suggested content could be "No Exit Below" / "Pas de Sortie Ci-Dessous". The colour of the sign should be a contrasting colour (green background, or a red background with contrasting letters. It is suggested that the sign be a minimum of 140 mm in any dimension.

Installation Criteria

The sign should be permanently installed and maintained within all exit stairwells in buildings over 2 storeys where the stair continues below the level of the exterior exit door.

It is recommended that each sign be installed directly above the first stair riser(tread) below the level of the exterior exit door on the side which will be most visible to people going down the stairs.

The bottom of the sign should be no less than 1200 mm and no more than 1700 mm above the floor level.

Additional signs may be installed if necessary.

EMERGENCY ACCESS TO FLOOR AREAS

Sign Purpose

The Building Code (Article 3.4.6.17.) requires that in a building over 6 storeys, emergency access to floor areas be provided. This is to ensure that firefighters can enter the floor area to search and enter a floor area, should the stairwell become blocked by smoke or other obstructions above the exit level. Signs are required to indicate which doors within the exit stairs will provide emergency access to the floor areas.

Sign Content and Colour

The Building Code does not specify the exact content or colour of this sign. However, the content has to indicate that doors providing access to floor areas are required to be identified by a sign on the stairway side to indicate that they are operable from that side.

Suggested wording could be "Emergency access to floor area through this door".

The recommended colour for the sign could be green letters on contrasting background, or a green background with contrasting letters. It is suggested that the sign be a minimum of 140 mm in any dimension.

Additional signs may be installed on floor levels where the doors are locked. The additional signs would indicate which storey(s) the required emergency access to the floor area is located on. (for example, "Emergency access to floor area on floor 7") (insert the appropriate floor number)

Installation Criteria

The signs are required to be mounted on the stairway side of those doors which the Building Code requires not to have locking devices that would prevent entry. These doors are (re):

a. any floor area designated as an area of refuge;
b. at every second floor above the ground;
c. at least one of the three highest storeys.

The sign should be permanently installed and maintained where required.

It is recommended that required signs be installed either on the door, or on the latch side of the door in a manner which will be most visible to people going down the stairs.

The bottom of the sign should be no less than 1200 mm and no more than 1700 mm above the floor level.

FLOOR NUMBERING AND STAIRWELL SHAFT DESIGNATION

Sign Purpose

In order to help orient people in the event of an emergency, the number of each floor and a designation assigned to each exit stair shaft are required by the Building Code (Article 3.4.6.18.) to be mounted permanently on each side of a door to an exit stair shaft.

Sign Content and Colour

The assigned floor number must be shown as an Arabic numeral that is contrasting in colour with the surface to which it is applied.

The designation assigned to each exit stair shaft must be shown as an UPPER CASE LETTER that a contrasting in colour with the surface to which it is applied.

Installation Criteria

The assigned floor number and the designation assigned to each exit stair shaft shall be permanently mounted on each side of doors to an exit stair shaft and be:

a. not less than 60 mm high;
b. mounted 1500 mm from the floor above the surface;
c. be located 1500 mm from the finished floor.

NOTE:

The Fire Code requires floor numbering to be provided in existing buildings regulated by the Fire Code. Floor numbering signs shall be installed in accordance with the Fire Code requirements specified above. The Chief Fire Official has the authority to accept floor numbering signs installed in accordance with either requirements under the provisions of Article 3.7.2. of the Fire Code.

Provincial Guidelines For Stairwells 1 A6-00

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date: June 12, 2013

Building Permit

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No.	Revision	Date

No.	Issued For	Date
2.	Building Permit	June 12, 2013
1.	Waterfront Toronto Review	May 1, 2013

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

Typical Stair and Railing, Details and Notes

Project

Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
263 Queens Quay East
Toronto, ON

Scale	Drawn by	Checked by
As indicated	M.R.	C.A.

Project No.: 13148

Date: June 12, 2015

Drawing No.: A6-00