

























# Example

### 3.3.1.23. Obstructions

 No obstruction shall be permitted in any occupancy that would restrict the width of a normal means of egress from any part of a floor area to less than 750 mm unless an alternative means of egress is provided adjacent to, accessible from, and plainly visible from the obstructed means of egress.

How does Sentence 3.3.1.23(1) work? (accepted solution) by having all points along the means of egress ≥ 750mm (or a 2<sup>nd</sup> means of egress)

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3.3.1.22.	Common Laundry Rooms	
(1)	[F03-OS1.2]	decomposition of the second second
	[F03-OP1.2]	
(3)	[F02-OS1.2]	
	[F02-OP1.2]	
3.3.1.23.	Obstructions	
(1)	[F10-OS3.7]	
3.3.1.24.	Signs in Service Spaces	
(1)	[F10-OS3.7]	
3.3.1.25.	Welding and Cutting	
(1)	[F03,F02-OS1.2]	
	[F03,F02-OP1.2]	

















# **Responsibilities & Roles**

Designer

- to take responsibility for the Alternative Design
- to prove Alternative Solution PL ≥ Accepted Solution PL

<u>AHJ</u>

- to confirm the Submission is accurate
- to critically review the Alternative Solution
- to be fair, consistent & transparent

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# Precedents of Alternative Solutions

- An approved Alternative Solution is <u>binding</u> for that particular building only (assuming no <u>later</u> circumstances have changed that would affect the performance level of the Alternative Solution)
- Accepted Alternative Solution used as an example to build a case for future Alternative Solution submissions
- Every Alternative Solution has its own unique circumstances and should not be considered a precedent for any future project.



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# Importance of Documenting the Alternative Solution (AS) (don't want the AS to be lost or forgotten over time) Provide documented rationale for allowing/rejecting the AS Subsequent building renovations, additions or modifications don't affect the AS On-going maintenance of AS Monitor the AS performance Later research might find AS inadequate Awareness for AHJ & Designers on other projects

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# Format for Alternative Solution Submissions

- 1. Design Professional
- 2. General Outline
- 3. Evaluation of Accepted Solution PL
- 4. Evaluation of Alternative Solution PL
- 5. Comparison of Performance Levels
- 6. Other Supporting Evidence











### AHJ Review of Alternative Solutions

1. Is submitted information organized and complete?

- 2. Is the design professional qualified?
- 3. Is the Design Professional taking full responsibility for the proposed Alternative Solution?
- 4. Are the submitted documents signed & sealed by the Design Professional?
- 5. Do you agree with the items to be measured (from the OS & FS)?
- 6. Do you agree with the measurement methods?
- 7. Is the submitted information accurate?
- 8. Does the Alternative Solution perform at least as well as at the Accepted Solution?

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9. Are there other consideration/ consequences (unintended consequences) for allowing the Alternative Solution?



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### NBC 2010

- 3.8.3.3. Barrier-Free Path of Travel
- Every doorway that is located in a barrier-free path of travel shall have a clear width of not less than 800mm when the door is in the open position.

### MBC 2011

- 3.8.3.3. Barrier-Free Path of Travel
- Every public pedestrian doorway shall have a clear width of not less than 825mm when the door is in the 90°open position, measured from the face of the door hinges to the face of the door stop at the door jamb.

Alternative Solution for 2 – 24" doors not acceptable

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# Future Goals

To build a library of both approved & rejected Alternative Solutions

- comparison of accepted / rejected submissions
- education for AHJ's & designers (submission format, rational)
- better future submissions & evaluations
- may eventually lead to NRC using Alternative Solution as an approved Accepted Solution

# Will require sharing

- not intended to critique designer / AHJ
- · removing specific project information essential



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