

# TrueDraft - Safety Compliance Report

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## Inspection Summary / Summary

Total Violations: 2

Status: **VIOLATIONS FOUND**

## 1. Overall Assessment

The project has two major safety violations related to the use of an inadequate mortar mix and the construction of a partition wall with excessive slenderness ratio. These issues need to be addressed immediately to ensure the seismic safety of the building.

## 2. Violation Details

### [HIGH] Item 1: Mortar Mix

Current Status:

The observed mortar mix ratio was '1:10' (Cement:Sand) for internal partition walls due to a temporary cement shortage.

Requirement:

Use a mortar mix of at least '1:6' cement-sand or equivalent in strength as the minimum, as per Table 4.4.

Reason:

The '1:10' mortar mix is weaker than the recommended minimum and may not provide adequate shear and tensile strength for seismic resistance.

Reference:

Section 4.4.1, Table 4.4

Action Plan:

Immediately revert to the specified '1:6' or richer cement-sand mortar mix for all masonry work. Ensure adequate cement supply on-site to maintain quality standards.

### [HIGH] Item 2: Wall Dimensions

Current Status:

A partition wall in the living room area of Block B was constructed with a height of 3.2m and a thickness of only 150mm, with an effective length of 4.5m between cross-walls.

Requirement:

The slenderness ratio ( $h/t$  or  $l/t$ ) should not exceed 24, as per the guidelines.

Reason:

The given wall dimensions result in a slenderness ratio of 21, which exceeds the recommended maximum of 24 and may compromise the structural integrity under seismic loads.

Reference:

Section 4.3, Table 4.3

Action Plan:

Immediately review and rectify the wall dimensions to ensure the slenderness ratio does not exceed 24. Increase the wall

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thickness or reduce the effective height/length as necessary to meet the safety guidelines.

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