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ACCBangladesh AccordRD
on Fire and Building Safety in Bangladesh



Identified Priority 1 Concerns

1st Priority 1 Concern



On the 6th floor, these raised steps of 200 mm were prepared for cutting areas.

The weight of these step is $0.2 \times 18 = 3.6$ kPa. It means that the floor is almost fully loaded and can not sustain any additional load from garment activities.

The allowable live load is 3kPa as per building code. Thus, it is required to demolish these steps due to the structural safety of the concrete floor.

**Excessive load due to raised brick steps
on 6th floor – in building 1**

2nd Priority 1 Concern

Each roll of fabric is estimated to be approximately 25kg. As they are stacked 9 rolls high, and arranged 4 rolls per layer, the weight of each layer is around 100kg, resulting in a total weight of 900kg (8.8kN) per stack.

Based on a plan area of 1.2mx1.2m per stack, the equivalent live load per stack is estimated to be:

$$8.8\text{kN}/(1.2 \times 1.2)\text{m}^2 = 6.1\text{kPa}.$$

The allowable live load is max. 3.0kPa



**Excessive Storage
Height of Fabric**

1st Priority 3 Concern



The fire water pipe across the road is not supported

Priority Actions

Problems Observed Summary

ITEM 1: (1st Priority 1) The raised brick step for cutting area impacts the excessive load on the 6th floor of building 1

ITEM 2: (2nd Priority 1) Storage height of fabric in the 1st floor of building 4 exceeds allowable live load limit.

ITEM 3: (1st Priority 3) The fire water pipe system is not structurally supported in some locations

Item 1 and actions

The raised brick steps for cutting area impact the excessive load on the 6th floor of building 1. Building is under construction, then it is easy to demolish these step to reduce the floor load.

Priority 1 (Immediate – Now)

- Demolish the brick steps on the 6th floor of building

Priority 2 (within 6 – weeks)

- None required

Priority 3 (within 6-months)

- Not required

Item 2 and actions

Storage height of fabric in storage rooms on 1/F of building 4 appears to be excessive

Priority 1 (Immediate – Now)

- Immediately reduce stacking height of fabric rolls to ensure total load does not exceed 3.0kPa

Priority 2 (within 6 – weeks)

- Mark the maximum allowable height of fabric stacking to ensure full compliance

Priority 3 (within 6-months)

- Not required

Item 3 and actions

The fire water pipe system is not structurally supported in some locations

Priority 1 (Immediate – Now)

- None required

Priority 2 (within 6 – weeks)

- None required

Priority 3 (within 6-months)

- Provide the supporting system for fire water pipe system