

Dekko Fashions Ltd Dekko Apparels Ltd

Dhaka
(23.819890, 90.363120)
1st April 2014



Observations

Assumed Non-engineered Escape Stair



Escape stair to front elevation which appears to be 'non-engineered' due to the small size of the stair stringer members and support columns. This stair will also apply point loading to the First floor projecting roof slab: it is not clear if this structure has been checked for this additional loading.

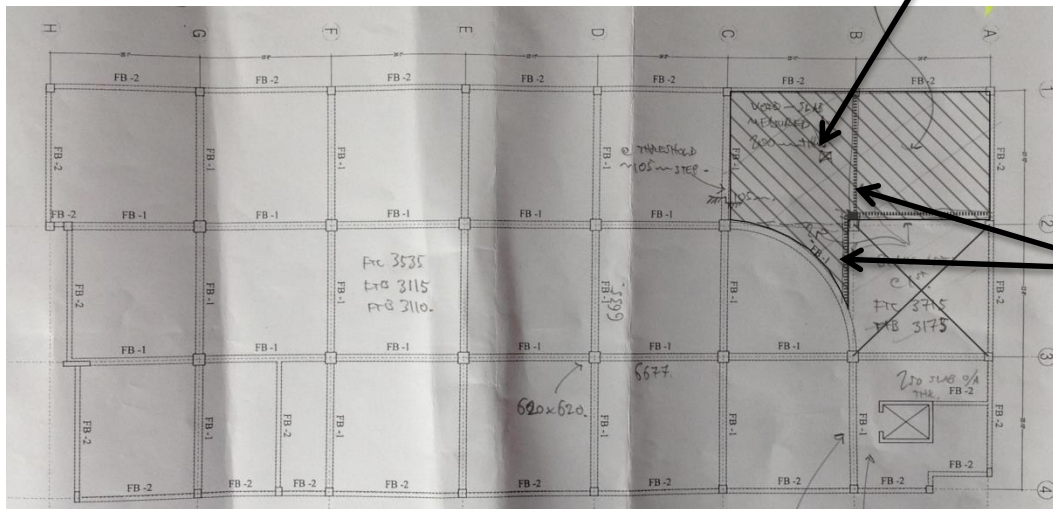
Escape Stair

Additional Loading to Curved Beam at First Floor



The loading on the curved beam at First floor in bay C2/B3 has increased due to the introduction of additional floor slab.

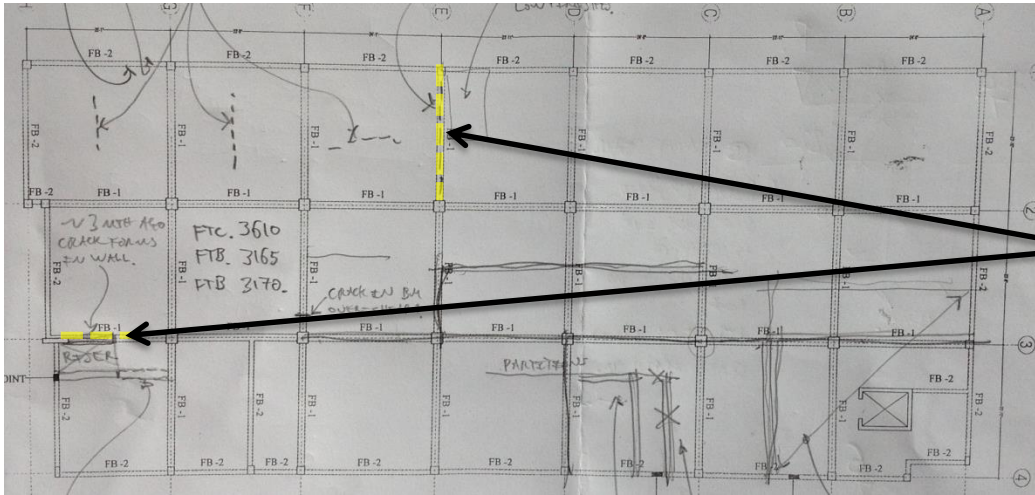
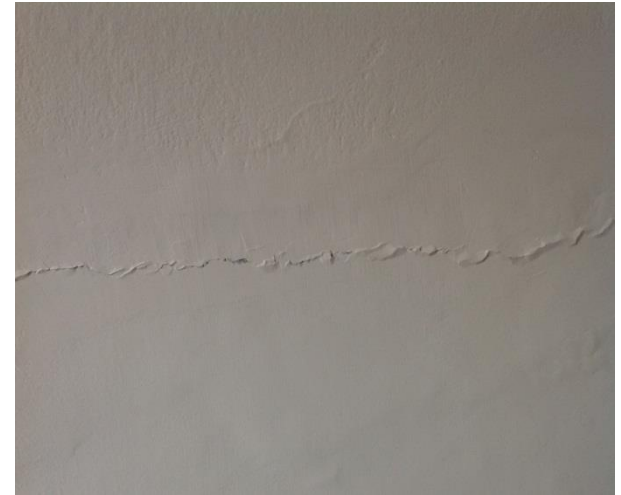
The additional slab area is marked on the plan below, which part-infills the double-height space at the front of the building.



Additional support column and beams (one of which frames into the curved beam). It is unknown if the capacity of the curved beam, nor the surrounding columns and foundations have been checked for the additional forces from the slab infill.

First Floor Curved Beam

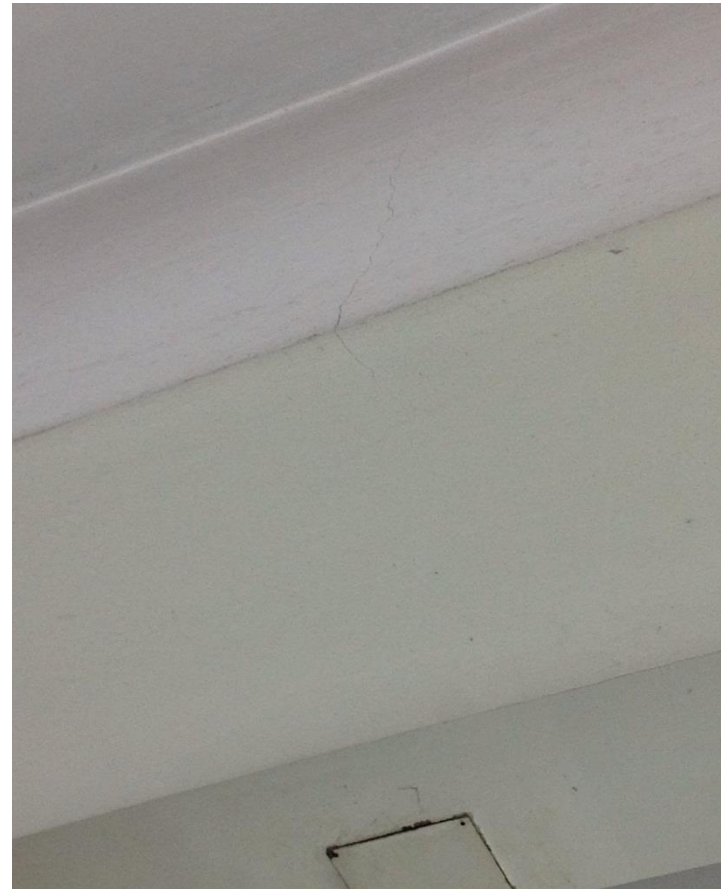
Cracking in Masonry Panels at Level 6



Cracking in masonry panels was observed at Level 6 to two locations as-marked.

Cracking in Masonry Panels at Level 6

Cracking in Beams and Slabs



Cracking was observed to the soffit of beams and slabs in numerous locations at many levels . These photos show typical cracking.

Beam and Slab Cracking

Priority Actions

Problems Observed

ITEM 1: Apparently non-engineered steelwork to escape stairs.

ITEM 2: Additional loading onto original curved beam due to recent infill slab.

ITEM 3: Cracking in masonry panels at Level 6.

ITEM 4: Cracking in beams and slabs at numerous floor levels.

| Item No. | Observation | Recommended Action Plan | Recommended Timeline |
|----------|--|---|----------------------|
| 1 | Apparently non-engineered steelwork to escape stairs | Building engineer to check the capacity of the steel stairs and supporting slab under fire escape loading | 6-weeks |
| 2 | Apparently non-engineered steelwork to escape stairs | Carry out any alterations required from the Assessment | 6-months |
| 3 | Additional loading onto original curved beam due to recent infill slab | Building engineer to check the structures and provide structural drawings and loading plan for the new First floor area | 6-weeks |
| 4 | Cracking in masonry panels at Level 6 | Engineer to monitor the recent cracking in masonry panels at level 6. Assessment to be made following monitoring and Engineer to specify repairs and strengthening if necessary | 6-months |
| 5 | Cracking in beams and slabs at numerous floor levels | Engage an Engineer to investigate if cracks are only in the nominal render finish. Engage an engineer to specify repairs and strengthening if necessary. | 6-months |