

Valmont Fashions Ltd. (9390)
Valmont Sweaters Ltd., Meek Knit Ltd.,
M.N.S. Printing Ltd

Plot#928,923 AZIZ Complex, Vogra, Joydepur, Garzipur
(+ 23.981214N,90.380281E)

28.MAY.2014

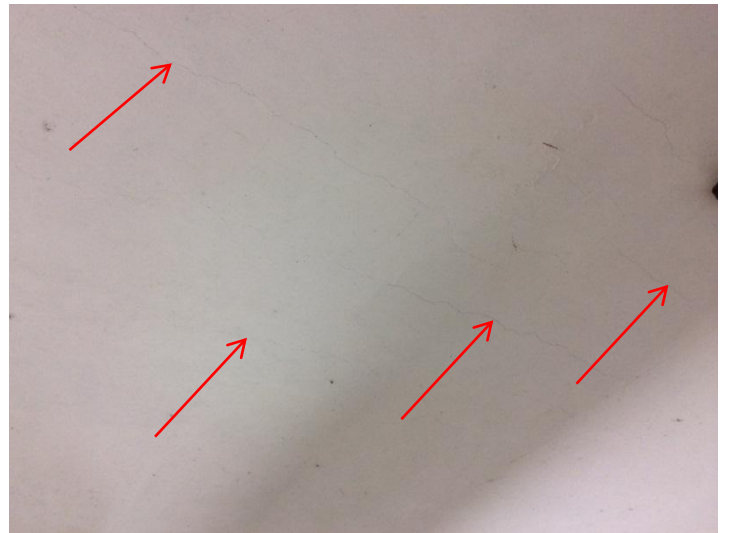
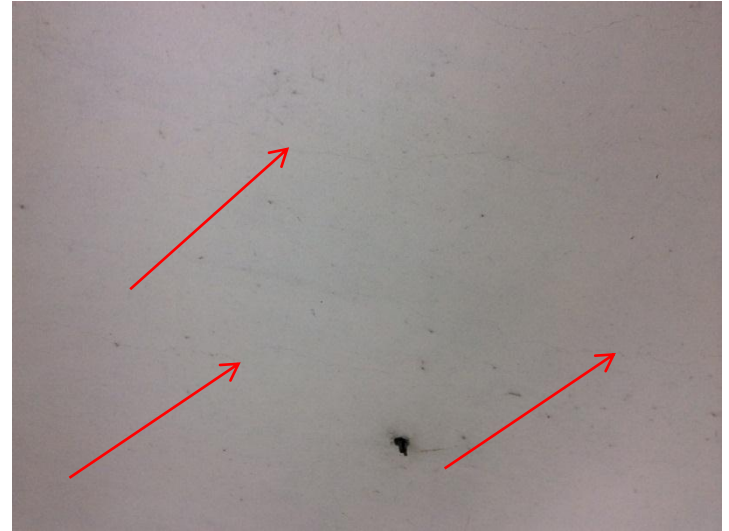
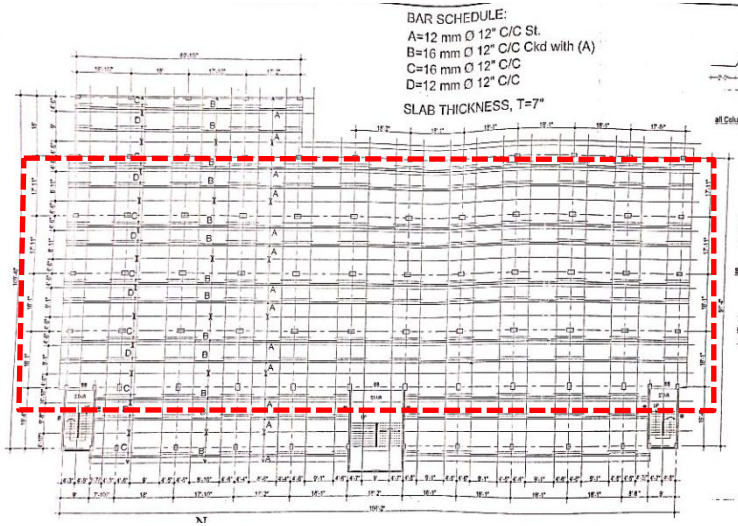


Identified Priority 2 Concerns

- Cracks appeared underside slab on building 1,
- Uncontrolled heavy storage loading on building 2,
- No structural drawings for steel roof and insufficient lateral steel bracing on building 1,
- Existing structural system of building 2 does not match the construction documentations,
- No structural support for roof steel beam on building 1,
 - Overall stability system on building 1 and 2 and
 - Distress due to water ingress on building 1 and 2

Building 1

1st Priority 2 Concern



Cracks appeared underside slab on 4th - 6th floor level, capacity check is required prior to repairing.



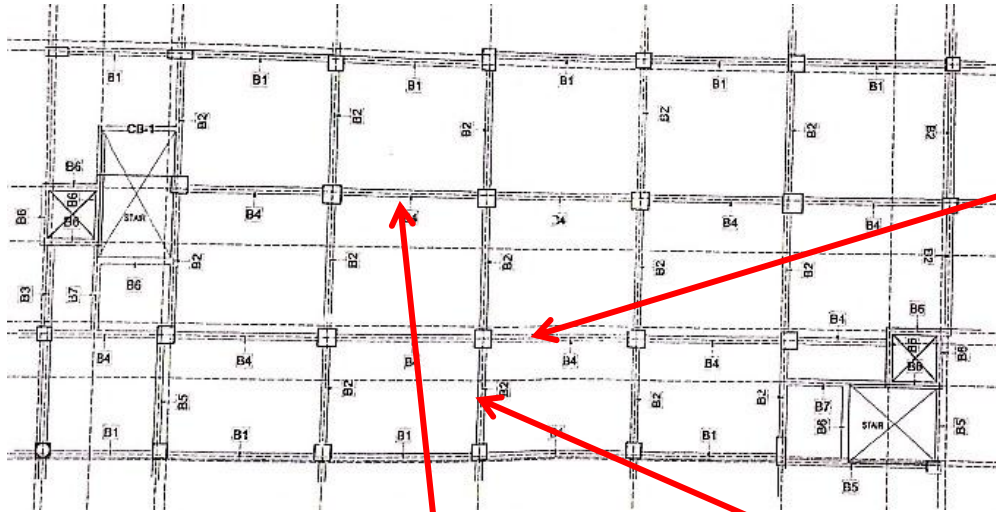
Uncontrolled heavy storage on ground floor. .
The apparent live load is believed to be 5.0 kPa.
Loading plan needs to be implemented.



There is no structural drawings provided and insufficient lateral steel bracing. Capacity check is required.

Building 2

4th Priority 2 Concern



There are no R.C. beam on 1st to 4th floor levels and these do not match structural drawings. Capacity check is required.



There are no structural support for steel roof. Capacity check is required.

Overall Stability System

Building 1

6th Priority 2 Concern



Concerns on the stability system for lateral loading. Façade brickwork walls lack of moment capacity in connection between columns and flat slab.

We require that these items be investigated as part of a Detailed Engineering Assessment and design review.





Concerns on the stability system for lateral loading. Façade brickwork walls lack of moment capacity in connection between shear wall, columns and flat slab.



Although, the building have been used shear wall and moment frame for stability but the existing slab and beam structure have been changed to flat slab. We require that these items be investigated as part of a Detailed Engineering Assessment and design review.

Water Ingress



There are water ponding on the roof slab after the rain and distress due to water ingress noted on slabs and walls.

Identified Priority 3 Concerns

- No fireproofing material applied for steel structural elements on building 1(if required),
 - Reinforcement left exposed on building 2 and
- No parapet wall present on top floor for building 2.



There are no fireproofing material applied for structural steel elements. It is unclear whether it is required by BNBC.



Reinforcement is left exposed, anti-rust paint is required.





There is no parapet wall around the perimeter of the building. Whilst not a structural issue, this is a significant health and safety risk and should be rectified.

Priority Actions

Problems Observed Summary

ITEM 1:	(Priority 2)	Cracks appeared underside slab on building 1, capacity check is required prior to repairing.
ITEM 2:	(Priority 2)	Uncontrolled heavy storage loading on building 2.
ITEM 3:	(Priority 2)	No structural drawings for steel roof and insufficient lateral steel bracing on building 1, capacity check is required.
ITEM 4:	(Priority 2)	Existing structural system of building 2 does not match the construction documentations.
ITEM 5:	(Priority 2)	No structural support for steel roof on building 1.
ITEM 6:	(Priority 2)	Overall stability system on building 1 and 2.
ITEM 7:	(Priority 2)	Distress due to water ingress on building 1 and 2.
ITEM 8:	(Priority 3)	No fireproofing material applied for structural steel elements on building 1(if required).
ITEM 9:	(Priority 3)	Reinforcement left exposed on building 2.
ITEM 10:	(Priority 3)	No parapet wall present on top floor for building 2.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Cracks appeared underside slab on building 1, capacity check is required prior to repairing.	A Detailed Engineering Assessment of the factory is to be carried out. The distress found is to be suitably repaired. Simply plastering over is not allowed.	6-weeks
2	Cracks appeared underside slab on building 1, capacity check is required prior to repairing.	Maintain standards of quality control to ensure that loading plan is correctly followed so that problems do not arise in the future.	6-months
3	Uncontrolled heavy storage loading on building 2.	Reduce stacking height of fabric rolls to ensure total load does not exceed 3.0kPa. Adopt some sort of signage/staff guidance to ensure that the maximum weight of storage is not exceeded.	6-weeks
4	Uncontrolled heavy storage loading on building 2.	Maintain standards of quality control to ensure that storage procedures are correctly followed so that overloading problems do not arise in the future.	6-months
5	No structural drawings for steel roof and insufficient lateral steel bracing on building 1, capacity check is required.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks
6	Existing structural system of building 2 does not match the construction documentations.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks
7	No structural support for steel roof on building 1.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
8	Overall stability system on building 1 and 2.	Request that the Detail Engineering Assessment of the overall building to be carried out and in particular, stability and foundation aspects should be investigated in detail.	6-weeks
9	Distress due to water ingress on building 1 and 2.	Factory Engineer to inspect water damaged structures and repair with a suitable method.	6-weeks
10	Distress due to water ingress on building 1 and 2.	Waterproofing is recommended. Moreover the slab drainage system should be investigated. Maintain standard of quality control.	6-months
11	No fireproofing material applied for structural steel elements on building 1 (if required).	Fireproofing material for structural steel element is recommended as suggested in BNBC Codes. Maintain standard of quality control.	6-months
12	Reinforcement left exposed on building 2.	For both durability and serviceability, rust proof paint or any appropriate methods is recommended.	6-months
13	No parapet wall present on top floor for building 2.	A suitable perimeter fence or wall should be constructed along the building envelope. Standard parapet is capable of resisting horizontal loads.	6-months