



Mega Denim Ltd.

88/1, B.K Bari, Taltoli, Mirjapur, Gazipur sadar, Gazipur
(24.120966, 90.378342)

23rd September 2018





Observations



Discrepancies between drawings and on site condition

3 **Observation: Production Building**



Flange thickness of column & main beam did not match with the provided drawings. Building engineer is required to produce an “as constructed” drawings to reflect the actual site dimensions with complete structural information.

MB NAME	MBSIZE
MB104,	W(626X8)F(250X12)
MB103	W(580X6)F(250X10)
MB101,	W(580X6)F(200X10)
MB102	W(626X8)F(250X12)
MB100	W(388X6)F(200X10)

Steel Beam Size



10 mm thickness of flange instead of 12 mm



Column thickness 16 mm instead of 20 mm

COL. NAME	COL.SIZE
C101,102,103,104,105,106	W(368X8)F(350X16)
C107	W(360X12)F(350X20)
C100	W(386X6)F(200X7)

Steel Column size



**Bracings are not installed as per
bracing layout**

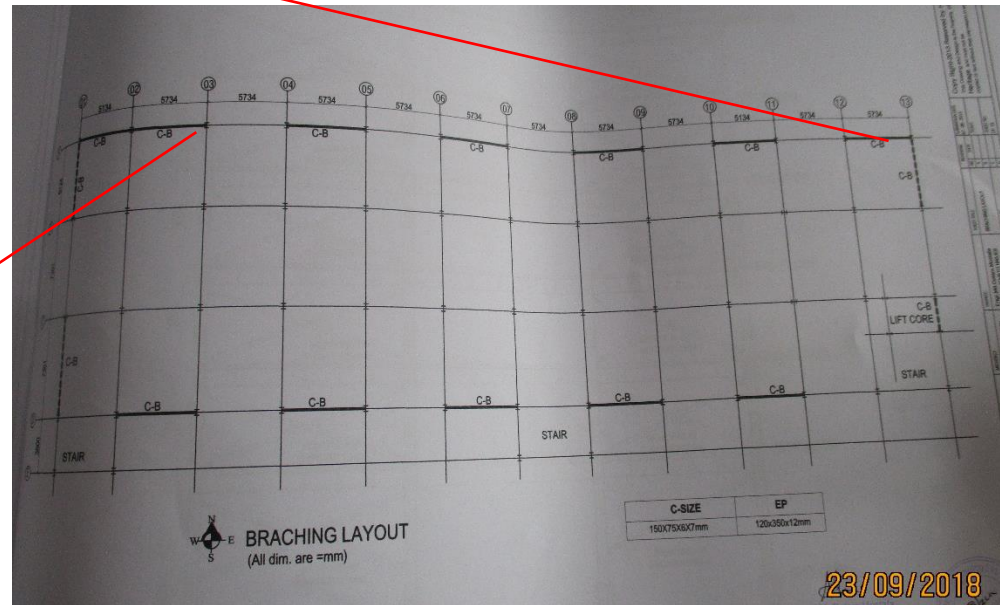


Vertical Bracing missing



Vertical Bracing missing

Bracings were not installed as per bracing layout. Bracing was missing at several location on 2nd, 3rd and Ground floor.



Bracing layout



Corrosion in Steel member

Observation: Production Building



Corrosion found in beam column connection at GF. Corrosion also found in bracing connection at toilet zone.



Corrosion at beam-column joint



Corrosion at bracing connection



Lack of waterproofing system on roof



No waterproofing membrane was visible on these roofs. Proper drainage system and water proofing membrane need to apply on roof to resist water ingress into the slab.

Observation: Production Building



Problems Observed

Production Building:

- 01: Discrepancies between drawings and on site condition.
- 02: Bracings are not installed as per bracing layout.
- 03: Corrosion in Steel member.
- 04: Lack of waterproofing system on roof.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancies between drawings and on site condition	Engage an Engineer to produce an “as constructed” drawings which reflect the actual site dimensions with complete structural information.	6-weeks
2	Bracings are not installed as per bracing layout	Install missing bracing as per bracing layout.	6-weeks
3	Corrosion in Steel member	Apply suitable method to protect the steel members from corrosion.	6-weeks
4	Lack of waterproofing system on roof	Waterproofing on the roof slab is to be applied. Moreover the roof slab drainage system should be investigated and improved.	6-months