

Gildan Shahriyar Fabrics Ind. (11479)

Palashbari, Ashulia, Savar, Dhaka

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10.August.2014



Identified Priority 1 Concerns

(None)

Identified Priority 2 Concerns

1st Priority 2 Concern



Cracking in beams
under water tanks in
building 4.



2nd Priority 2 Concern



Steel stairs around
ETP are corroded.

3rd Priority 2 Concern



Overall stability system of all steel sheds.

The wire cross brace, where installed, are not correctly tensioned.

4th Priority 2 Concern



Connection
between steel
beams and
concrete columns in
building 2.



5th Priority 2 Concern

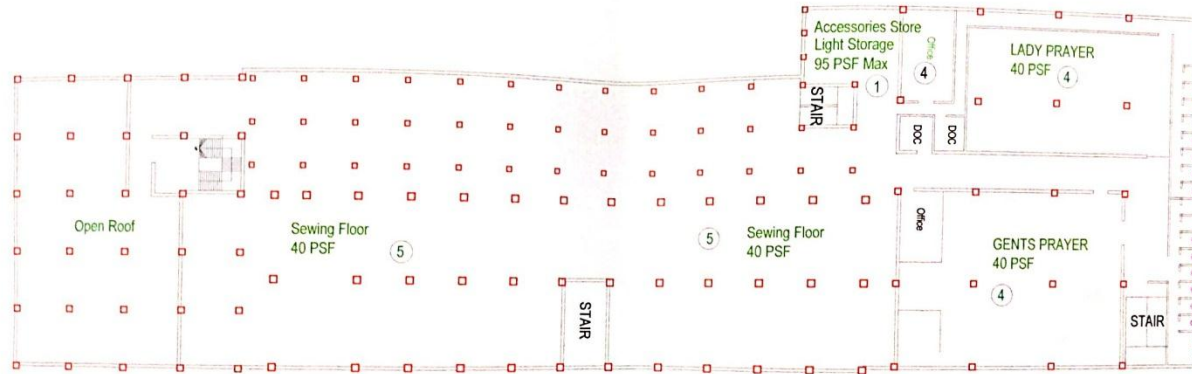


Steel and timber detailing to roofs over stairwells in main factories.



6th Priority 2 Concern

Loading plans
require displaying at
all upper floors.



Floor Loading For this Floor

No	Type	Item	Max Load PSF	Description
1	HS	Box Goods Rack	95	Box 22"x22"x8"-19.80kg Rack Size W-7'x8-2'xH-7'-30" box
2	LS	Box Storage	—	—
3	LS	Working Materials	—	—
4	Light	Office	40	—
5	Light	Sewing Table	40	Typical Sewing Table
6	Others	Water Tank	—	—

ACCESSORIES STORE= Height Max: 10 Box.

HS=Heavy Storage
LS=Light Storage

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Overall Stability System

Main Factory Buildings 1-4



The buildings did not feature any core or shear walls. Stability was achieved through sway action between beams and columns and masonry infill walls. Several columns have been strengthened to provide additional lateral resistance in building 2, shown above.

We require that these items be investigated in an Engineering Assessment

Shed Buildings 1-8



The shed building were a mixture of portal frames and unbraced steel frames. Where stability systems exist it was in the form of wire cross bracing and portal frames. Several smaller shed buildings did not appear to feature any obvious stability system.

We require that these items be investigated in an Engineering Assessment

Water Ingress at Roof Level

Main Factory Buildings 1-4



No waterproofing membrane was visible on the roof of the building. This means that any cracks in the surface finishes on the roof will allow water to seep into the concrete slab beneath the finishes, and cause corrosion of the reinforcing steel.

Priority Actions

Problems Observed Summary

- | | | |
|---------|--------------|--|
| ITEM 1: | (Priority 2) | Cracking in beams under water tanks in building 4. |
| ITEM 2: | (Priority 2) | Steel stairs around ETP are corroded. |
| ITEM 3 | (Priority 2) | Overall stability system of factory buildings and steel sheds. |
| ITEM 4: | (Priority 2) | Connection between steel beams and concrete columns in building 2. |
| ITEM 5: | (Priority 2) | Steel and timber detailing to roofs over stairwells in main factories. |
| ITEM 6: | (Priority 2) | Loading plans require displaying at all upper floors. |
| ITEM 7: | (Priority 3) | No waterproof membrane to concrete roofs. |

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Priority 2 - Cracking in beams under water tanks in building 4.	Factory engineer to survey the beams, removing plaster, to establish the extent of the cracks in the beams.	6-weeks
2	Priority 2 - Cracking in beams under water tanks in building 4.	Relocate the water tanks closer to columns if the cracks are in the concrete.	6-months
3	Priority 2 - Steel stairs around ETP are corroded.	Factory engineer to survey the steel stairs to determine the extent of treads requiring replacement.	6-weeks
4	Priority 2 - Steel stairs around ETP are corroded.	Replace stringers as required, repaint steelwork and form maintenance regime for steelwork over the ETP.	6-months
5	Priority 2 - Overall stability system of factory buildings and steel sheds.	Carry out an Engineering Assessment on the buildings and sheds to verify that they are stable under lateral loading.	6-weeks
6	Priority 2 - Overall stability system of factory buildings and steel sheds.	Carry out all recommendations of the Engineering Assessment.	6-months
7	Priority 2 - Connection between steel beams and concrete columns in building 2.	Factory engineer to survey steel – concrete connections to verify the extent requiring strengthening.	6-weeks
8	Priority 2 - Connection between steel beams and concrete columns in building 2.	Strengthen the connections using shim plates between the end plates and columns and tighten up the bolts on the connections.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
9	Priority 2 - Steel and timber detailing to roofs over stairwells in main factories.	Carry out Engineering Assessment on steel roofs around the main factory to determine what strengthening works are required.	6-weeks
10	Priority 2 - Steel and timber detailing to roofs over stairwells in main factories.	Carry out recommendations highlighted in Engineering Assessment.	6-months
11	Priority 2 - Loading plans require displaying at all upper floors.	Print loading plans out for all buildings and display around the buildings as required.	6-weeks
12	Priority 2 - Loading plans require displaying at all upper floors.	Ensure that the loading plans are actioned.	6-months
13	Priority 3 - No waterproof membrane to concrete roofs.	Cover the concrete roofs with a suitable waterproofing membrane, e.g. waterproof screed.	6-months