



## Structural Safety Inspection

Factory Name	UTAH Fashions Ltd	Accord ID	9532
Factory Address	South Shalna, Shalna Bazar Gazipur Gazipur Dhaka Bangladesh		
Inspection Date	24/05/2014		
Date of Review Inspection	13-Sep-18		
Inspected by	Md. Abdul Malek		



Item No	Accord Observation	Accord Recommendation	Accord Timeline	Final Action Plan	Final Timeline( DD/MM/YYYY)	Comments after Physical Inspection	Progress Status	Pictorial Evidence
1	Significant vertical cracks were observed in several beams in same position/location on the beam primarily on 5th & 6th floor. Lesser vertical cracks were also observed in similar beam location on other floors. All cracks are same distance from column. In majority of cases the cracks were observed in the short directional beam. The location of cracking and similarity on floors indicate stress on the lateral load carrying system in similar direction.	Engage a qualified structural engineer to provide additional investigation into the observed cracking and provide a remediation plan if required.	28/07/2014	Accord team verified and found corrected.	30/04/2015	<p><b>On 15/10/2015:</b> According to factory consultant's certificate, the cracks are plaster cracks only. Some cracks are repaired by plastering. The cracks should be kept in monitor whether the cracks expand or not.</p> <p><b>On 2/3/2016:</b> According to factory consultant's certificate which is accepted by Alliance, the cracks are plaster cracks only. The cracks shall be kept in monitor whether the cracks expand or not.</p> <p><b>On 2/3/2017:</b> No cracks were found during inspection. Moreover factory management has repaired the plaster cracks which were mentioned previously.</p> <p><b>On 29/11/2017:</b> Corrected from previous follow up inspection report. According to factory consultant's certificate which is accepted by Alliance, the cracks are plaster cracks only. The cracks shall be kept in monitor whether the cracks expand or not.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. No further cracks were found during inspection.</p>	Corrected	
2	Many horizontal cracks have developed in 6-7 columns in same position in the 5th & 6th floors. Many cracks in slab max in short direction in same symbolic more or less in every floor. Additionally, a horizontal crack has developed in both side walls (South & North) in same symbolic direction & same location under the cantilever beam at height 3' to 5' from floor in every floor.	Have a qualified structural engineer provide further testing and analysis of cracking in slab, columns and walls and provide a remediation plan to correct noted issues.	28/07/2014	Accord team verified and found corrected.	25/04/2015	<p><b>On 15/10/2015:</b> According to factory consultant's certificate, the cracks are plaster cracks only. Some cracks are repaired by plastering. The cracks should be kept in monitor whether the cracks expand or not.</p> <p><b>On 2/3/2016:</b> According to factory consultant's certificate which is accepted by Alliance, the cracks are plaster cracks only. The cracks shall be kept in monitor whether the cracks expand or not.</p> <p><b>On 2/3/2017:</b> No cracks were found during inspection. Moreover factory management has repaired the plaster cracks which were mentioned previously.</p> <p><b>On 29/11/2017:</b> Corrected from previous follow up inspection report. According to factory consultant's certificate which is accepted by Alliance, the cracks are plaster cracks only. The cracks shall be kept in monitor whether the cracks expand or not.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. No further cracks were found during inspection.</p>	Corrected	
3	The structural documents of this 7 storied building was Provided by Akbar And Associates, Karachi, 452-9091 (4 Lines), Lahore 577-0033-4, Pakistan, (no design engineer named). In structural design they have not identified any kind of load (Live load, Dead load, Wind load, Seismic load) but they replied by mail to Mr. Kadery dated 26th April "For load factors. We have followed ACI/BNBC code"- however, this is not considered sufficient to evaluate general conformance with 2006 BNBC or other comparable applicable international model.	Engage a qualified structural engineer to develop the required documents to confirm conformance to building code including detailed design loads. Documents must comply with Alliance Standard Part 8 Section 8.19 and 8.20	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016.</p> <p><b>On 2/3/2017:</b> DEA was approved by ALLIANCE on 31/10/2016 and as per recommendation from approved DEA, retrofitting work is on going. Some discrepancies was found during verification of DEA in between as built condition and approved as built drawings. So further verification and approval of DEA from ALLIANCE is required.</p> <p><b>On 29/11/2017:</b> Factory prepared DEA which was accepted by Alliance on 31/10/2016. During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Revised documents were submitted to Alliance on 3rd January 2018 based on the DEA verification report which has been re-accepted on 21 January 2018 from Alliance.</p>	Corrected	

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4	Design engineer did not mention any types load or information about wind load & seismic load and therefore compliance with requirements for wind loading and storm surge loadings as detailed in BNBC Part 6 Section 1.5.3 could not be confirmed.	Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading. Compliance may be waived if the Factory Owner provides satisfactory evidence of a cyclone operations plan that includes full evacuation of the factory in advance of any approaching cyclone"	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016.</p> <p><b>On 2/3/2017:</b> DEA was approved by ALLIANCE on 31/10/2016 and as per recommendation from approved DEA, retrofitting work is on going. Some discrepancies was found during verification of DEA in between as built condition and approved as built drawings. So further verification and approval of DEA from ALLIANCE is required.</p> <p><b>On 29/11/2017:</b> Factory prepared DEA which was accepted by Alliance on 31/10/2016. During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Revised documents were submitted to Alliance on 3rd January 2018 based on the DEA verification report which has been re-accepted on 21 January 2018 from Alliance.</p>	Corrected	
5	No program in place to ensure that the live loads for which a floor or roof is or has been designed will not be exceeded	"Develop a program to ensure that all live loads for which a floor or roof has been designed for will not be exceeded. The designated Load Manager shall oversee this program and ensure it is enforced (see additional recommendation on Load Manager).	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. After getting approval from Alliance factory load manager shall implement the load plan.</p> <p><b>On 2/3/2017:</b> During inspection load plan was found posted in some of the floors and no marking for load restriction was found in other floors. Factory management is required to post approved live load plan along with load height mark in all floors of the building and maintain live load as per approved load plan. Factory management has already appointed a person as load manager in the factory.</p> <p><b>On 29/11/2017:</b> Load plan was prepared as a part of DEA which was accepted by Alliance on 31/10/2016. Factory almost completed Retrofitting works as per DEA. Loading was observed within the mentioned loading limit of load plan (&lt;63 psf). During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Load plan has been re-accepted along with DEA. Load was found within allowable accepted load plan. No major storage were found in the building during inspection.</p>	Corrected	
6	Due to lack of live load calculations and plans, it is unclear if density of operations exceed 2.0 kN/m2 (42 psf). No confirmation of required load capacity exists for fabric storage areas (e.g. South & East part of 2nd floor in cutting section, a lot of trolley is kept by loaded fabrics), areas of heavy equipment (dryer), accessory store, etc.	Have a qualified structural engineer confirm that capacity to support the load is available. Load Plans complying with Alliance Standard Part 8 Section 8.20.4.3 should also be developed.	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. However, during inspection live load on floor plates was found to be less than 2.0 Kpa.</p> <p><b>On 2/3/2017:</b> Factory consultant has produced a DEA report for this building to confirm the capacity of the structure and developed a load plan for each of the floor plan which is accepted by Alliance. During inspection that load plan was found posted in some floors that needs to be posted in all floors and a mark must adopt to restrict the loads as well.</p> <p><b>On 29/11/2017:</b> Load plan was prepared as a part of DEA which was accepted by Alliance on 31/10/2016. Factory almost completed Retrofitting works as per DEA. Loading was observed within the mentioned loading limit of load plan (&lt;63 psf). During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Revised documents were submitted to Alliance on 3rd January 2018 based on the DEA verification report which has been re-accepted on 21 January 2018 from Alliance.</p>	Corrected	
7	The structural documents of this 7 storied building was Provided by Akbar And Associates, Karachi, 452-9091 (4 Lines), Lahore 577-0033-4, Pakistan, but they have not mentioned name of design engineer and the documents are not signed by engineer or architect. In structural design they have not provided load information(Live load, Dead load, Wind load, Seismic load).	Have a qualified structural engineer prepare credible as-built documents based on the requirements of Part 8 Section 8.19 of the Alliance Standard. Design should include all loads and be signed by engineer of record.	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016.</p> <p><b>On 2/3/2017:</b> Factory consultant has produced a set of as built drawings and that was accepted by ALLIANCE on 31/10/2016. During inspection some discrepancies was found with the drawings and actual condition of the structure. It is recommended to revise the as- built drawings according to site condition.</p> <p><b>On 29/11/2017:</b> Factory prepared DEA which was accepted by Alliance on 31/10/2016. During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Revised documents were submitted to Alliance on 3rd January 2018 based on the DEA verification report which has been re-accepted on 21 January 2018 from Alliance.</p>	Corrected	

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8	Racks in 2nd Floor accessory store and printing racks on the 3rd floor have not been anchored to resist seismic forces.	Adequately anchor and brace racking system to resist earthquake forces to comply with the BNBC and Alliance Standard.	25/08/2014	Accord team verified and found corrected.	*26/05/2016	<p><b>On 15/10/2015:</b> Not yet done. They will shift storage to a new building within same premises that is under construction.</p> <p><b>On 2/3/2016:</b> Factory management already prepared a new store. They will shift their existing store within 16th March 2016. During inspection racks are found without anchoring.</p> <p><b>On 2/3/2017:</b> Factory management has already shifted their store into other building. During inspection no store and racks were found at 2nd floor of the building.</p> <p><b>On 29/11/2017:</b> Corrected from previous follow up inspection report. During inspection, no racks were found at 2nd floor of the building and shifted to the other building.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. During inspection, no racks were found at 3rd floor of the building and shifted to the other building.</p>	Corrected	
9	Heavy machinery (Drier machine & another machine) was observed in North-East part of 3rd floor. It is unclear, due to lack of live load assessment, whether appropriate provisions have been made in floors or decks to handling concentrated load.	Engage a qualified structural engineer to confirm and document that provisions have been made to accommodate concentrated loads of the machinery on the 3rd floor. If provisions have not been made, have a qualified structural engineer develop a remediation plan.	28/07/2014	Accord team verified and found corrected.	*08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. Factory shall implement the remediation plan if needed after approval of design report from Alliance.</p> <p><b>On 2/3/2017:</b> As a part of DEA live load plan was approved from ALLIANCE on 31/10/2016. During inspection no heavy machinery was found at north-east part of 3rd floor.</p> <p><b>On 29/11/2017:</b> Corrected from previous follow up inspection report. As a part of DEA live load plan was approved from ALLIANCE on 31/10/2016. During inspection no heavy machinery was found at north-east part of 3rd floor.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. Heavy Machineries have been shifted to another building which is not covered in this report. Some machineries were found in the ground floor of the building during inspection.</p>	Corrected	
10	No factory load manager has been designated.	*Designate a representative as the Factory Load Manager. The Factory Owner shall ensure that at least one individual, the Factory Load Manager who is located onsite full time at the factory, is trained in calculating operational load characteristics of the specific factory. The Factory Load Manager shall serve as an ongoing resource to RMG vendors and be responsible to ensure that the factory operational loads do not at any time exceed the factory floor loading limits as described on the Floor Loading Plans.	28/07/2014	Accord team verified and found corrected.	*25/04/2015	<p><b>On 15/10/2015:</b> Load manager has been assigned by the factory.</p> <p><b>On 2/3/2016:</b> Corrected in previous inspection. During inspection load manager was available.</p> <p><b>On 2/3/2017:</b> Factory management has already appointed a person as load manager of the factory.</p> <p><b>On 29/11/2017:</b> Factory management has already appointed a load manager to monitor loads.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. Mr. Abdus Sattar has been appointed as a load manager.</p>	Corrected	
11	Load Plans have not been prepared for each floor documenting the actual maximum operational loading that is intended and/or allowable on each floor	Have a qualified structural engineer develop Floor Loading Plans per the requirements of Part 8 Section 8.20.5.3	28/07/2014	Accord team verified and found corrected.	*08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. However, during inspection live load on floor plates was found to be less than 2.0 Kpa.</p> <p><b>On 2/3/2017:</b> Factory Consultant has produced a set of load plan which was accepted by Alliance on 31.10.2016.</p> <p><b>On 29/11/2017:</b> Corrected from previous follow up inspection report. Factory Consultant has produced a set of load plan which was accepted by Alliance on 31.10.2016.</p> <p><b>On 13/09/2018:</b> Load plan has been re-accepted along with DEA. Load was found within allowable accepted load plan. No major storage were found in the building during inspection.</p>	Corrected	

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12	No floor load plans posted as required	Have a qualified structural engineer prepare load plans including the information required in Section 8.20 of the Alliance Standard.	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Factory management have given commitment that they will submit all required documents to Alliance within 18 October 2015.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. However, during inspection live load on floor plates was found to be less than 2.0 Kpa.</p> <p><b>On 2/3/2017:</b> During inspection load plan was found posted in some of the floors and no marking for load restriction was found in other floors. Factory management is required to post approved live load plan along with load height mark in all floors of the building and maintain live load as per approved load plan. Factory management has already appointed a person as load manager of the factory.</p> <p><b>On 29/11/2017:</b> Factory prepared load plan as a part of DEA which was accepted by Alliance on 31 October 2016. During inspection, Load plan was found posted on each floor. Loading was found within the mentioned loading limit of load plan.</p> <p><b>On 13/09/2018:</b> Found corrected from previous follow up inspection report. Load plan has been re-accepted along with DEA. Load was found within allowable accepted load plan. No major storage were found in the building during inspection.</p>	Corrected	
13	Areas used for storage of work materials and work products, are not clearly marked to indicate the acceptable loading limits	Provide signage or the appropriate markings at all areas used for storage to indicate the acceptable loading limits detailed in the Load Plan (noted elsewhere).	28/07/2014	Corrected. We have completed retrofitting and now following all the recommendations of approved DEA.	'08/08/2017	<p><b>On 15/10/2015:</b> Not yet done.</p> <p><b>On 2/3/2016:</b> This issue will be covered in Design Report. Factory management have submitted Design Report to Alliance. Some correction was suggested by Alliance. Factory authority committed to submit the corrected documents to Alliance within 18 March 2016. However, during inspection live load on floor plates was found to be less than 2.0 Kpa. After getting approval clear signage shall be provided to restrict load limit.</p> <p><b>On 2/3/2017:</b> During inspection load plan was found posted in some of the floors and no marking for load restriction was found in other floors. Factory management is required to post approved live load plan along with load height mark in all floors of the building and maintain live load as per approved load plan. Factory management has already appointed a person as load manager of the factory.</p> <p><b>On 29/11/2017:</b> During inspection, Load plan was found posted on each floor and load marking was observed on storage areas. However, During verification inspection, discrepancy was observed on As Built drawing. Factory is required to submit revised documents to Alliance as per verification report.</p> <p><b>On 13/09/2018:</b> Load plan has been re-accepted along with DEA. Load was found within allowable accepted load plan. No major storage were found in the building during inspection.</p>	Corrected	