




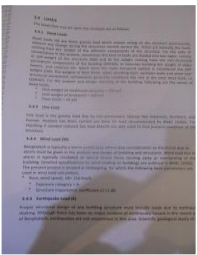




Structural Safety Inspection

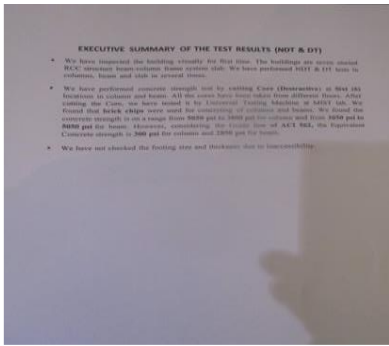
Factory Name	Eve Dress Shirt Limited	Accord ID	11346
Factory Address	Anowar Jung Road, Holding #219, Ward # 05, Block #A, , Ashulia, Savar.		
Inspection Date	10/04/2014		
Date of Review Inspection	25-Mar-18		
Inspected by	Md. Kabirul Islam		





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	No nondestructive testing of material strength was completed during the initial assessment. Considering 2100psi strength of concrete for MCAC calculated FoS for columns considering vertical loads are adequate, but FoS for central column lies between 1.5 to 1.86 which warrants further investigation. FoS for central column=1.6 FoS for corner column=2.57 FoS for edge column=1.94	Under guidance from a qualified structural engineer arrange additional investigation which will include destructive core testing to verify the concrete compressive strength of columns.	6/29/2014 12:00:00 AM	Completed (As per Alliance approved Structural Design Report on 20.06.2017)	07/03/2015	On 15th Nov-2015: The factory completed core test work but yet not shown any design calculation on basis of core test result. It should be cover in Design report. On 11th Dec-2017: Cores have been taken and covered in DEA. During inspection all core locations have been found as per test report. On 25/03/2018: Corrected from previous follow up inspection. Cores were taken and tested.	Corrected	



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2	There were two water tanks observed on the roof. Each of the two tanks had a 2000 liter capacity.	Engage a qualified structural engineer to confirm and document that provisions have been made to accommodate concentrated loads. If provisions have not been made, have a qualified structural engineer develop a remediation plan.	6/29/2014 12:00:00 AM	Completed (As per Alliance approved Structural Design Report on 20.06.2017)	10/02/2015	On 15th Nov-2015: The factory engage an engineering firm to prepare design report. Factory management committed to us within 15th December 2015 will submit all documents to ALLIANCE structural team. On 11th Dec-2017: During inspection it was observed that two plastic water tanks have been removed from roof. On 25/03/2018: Corrected from previous follow up inspection. No plastic tank is observed on roof.	Corrected	
3	Bonded wear house was overloaded in 3F of main building. It was recommended to reduce the load up to allowable limit immediately. The load capacity has not been analytically confirmed and certified by an Alliance-qualified structural engineer.	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.	6/29/2014 12:00:00 AM	Completed	18/03/2015	On 15th Nov-2015: load plans were not produced yet but they maintain loading 2kpa except store area in 5th & 3rd floor. Up to finalize design report the factory should be maintain 2kpa. On 11th Dec-2017: DEA has been accepted from Alliance on 20th June 2017. As per accepted some remediation works (demolition work) were required to be implemented and during inspection it was observed that factory management completed all remediation works except in two toilet areas of 3rd and 6th floor. Factory management must complete all the remediation works. On 25/03/2018: DEA was accepted from ALLIANCE on 20th June 2017. Factory management has completed all remediation work as per suggested DEA.	Corrected	



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4	It is not mentioned that seismic and wind requirements of the 2006 BNBC were followed in structural documents.	Have a qualified structural engineer document compliance with the seismic and wind requirements stated in the 2006 BNBC.	6/29/2014 12:00:00 AM	Completed	10/02/2015	<p>On 15th Nov-2015: This issue will cover in design report.</p> <p>On 11th Dec-2017: DEA has been accepted from Alliance on 20th June 2017. As per accepted some remediation works (demolition work) were required to be implemented and during inspection it was observed that factory management completed all remediation works except in two toilet areas of 3rd and 6th floor. Factory management must complete all the remediation works.</p> <p>On 25/03/2018: DEA was accepted from ALLIANCE on 20th June 2017 considering wind and seismic loading. Factory management has completed all remediation work as per suggested DEA.</p>	Corrected	  
5	There is 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.	6/29/2014 12:00:00 AM	Completed (As per Alliance 3rd RVV on 18.07.2016)	18/03/2015	<p>On 15th Nov-2015: load plans were not produced yet. The factory should be include roof top gardening load and each floor additional 10"brick wall for fire door fixing purpose.</p> <p>On 11th Dec-2017: Load plan has been produced as part of DEA and accepted from Alliance. Load manager has also been appointed and he was present during inspection.</p> <p>On 25/03/2018: Corrected from previous follow up inspection. Load plan was produced as part of DEA which was accepted by ALLIANCE. Load manager is appointed. Load plan is observed posted on floors and loading limit signage is observed as per accepted load plan.</p>	Corrected	  

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6	House Building Research Institute has conducted cylinder test for only 3 specimens during construction of the building. This testing does not meet the requirements of the Alliance Standard, and no in-situ testing of concrete compressive strength was performed as part of the initial assessment.	Have a qualified structural engineer assess the durability aspects as suggested in Alliance Standard Part 7 Section 7.2 and take appropriate remedial measures. This assessment should include destructive core testing to verify the concrete compressive strength of columns.	6/29/2014 12:00:00 AM	Completed	07/03/2015	<p>On 15th Nov-2015: This issue will cover in design report and as build drawing.</p> <p>On 11th Dec-2017: DEA has been accepted from Alliance on 20th June 2017. As per accepted some remediation works (demolition work) were required to be implemented and during inspection it was observed that factory management completed all remediation works except in two toilet areas of 3rd and 6th floor. Factory management must complete all the remediation works.</p> <p>On 25/03/2018: DEA was accepted from ALLIANCE on 20th June 2017 considering this issue. Cores were taken and tested. Factory management has completed all remediation work as per suggested DEA.</p>	Corrected	

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7	Available structural documents do not indicate conformance with 2006 BNBC or other comparable applicable international model building code. A certification document by the structural engineer & architect states that the building is safe for factory operation according their structural design & construction supervision, but does not mention conformance with the 2006 BNBC or other comparable applicable international	Engage a qualified structural engineer to develop the required documents to confirm the structural integrity of the buildings. Documents must comply with Alliance Standard Part 8 Section 8.19 and 8.20.	6/29/2014 12:00:00 AM	Completed	18/03/2015	On 15th Nov-2015: This issue will cover in design report and as build drawing. On 11th Dec-2017: DEA has been accepted from Alliance on 20th June 2017. As per accepted some remediation works (demolition work) were required to be implemented and during inspection it was observed that factory management completed all remediation works except in two toilet areas of 3rd and 6th floor. Factory management must complete all the remediation works. On 25/03/2018: DEA was accepted from ALLIANCE on 20th June 2017. Factory management has completed all remediation work as per suggested DEA.	Corrected	 

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8	It is not mentioned that wind loading and storm surge loadings requirements as detailed in BNBC Part 6 Section 1.5.3 followed in structural documents.	Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading.	6/29/2014 12:00:00 AM	Completed	10/02/2015	<p>On 15th Nov-2015: This issue will cover in design report and as build drawing.</p> <p>On 11th Dec-2017: DEA has been accepted from Alliance on 20th June 2017. As per accepted some remediation works (demolition work) were required to be implemented and during inspection it was observed that factory management completed all remediation works except in two toilet areas of 3rd and 6th floor. Factory management must complete all the remediation works.</p> <p>On 25/03/2018: DEA was accepted from ALLIANCE on 20th June 2017 considering wind loading. Factory management has completed all remediation work as per suggested DEA.</p>	Corrected	

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9	There is no designated representative(Factory Load Manager).	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.	6/29/2014 12:00:00 AM	Completed (As per Alliance 3rd RVV on 18.07.2016)	08/06/2015	On 15th Nov-2015: The factory already engage an load manager. On 11th Dec-2017: This issue was corrected from previous inspection. Load manager has been appointed and he was present during inspection. On 25/03/2018: Corrected from previous follow up inspection. Load manager has been appointed. Load manager is present during inspection.	Corrected	
10	Floor load plan has not been prepared so far, but loading is within 42 psf.	Have a qualified structural engineer develop Floor Loading Plans per the requirements of Part 8 Section 8.20.5.3.	6/29/2014 12:00:00 AM	Completed (As per Alliance 3rd RVV on 18.07.2016)	18/03/2015	On 15th Nov-2015: load plans were not produced yet but they maintain loading 2kpa except store area in 5th & 3rd floor. Up to finalize design report the factory should be maintain 2kpa. On 11th Dec-2017: Load plan has been produced as part of DEA and accepted from Alliance. On 25/03/2018: Corrected from previous follow up inspection. Load plan was produced as part of DEA which was accepted by ALLIANCE.	Corrected	

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11	No floor load plans have been developed.	Have a qualified structural engineer prepare load plans including the information required in Section 8.20 of the Alliance Standard. Floor load plans should be displayed on all levels of the building.	6/29/2014 12:00:00 AM	Completed	07/04/2015	<p>On 15th Nov-2015: load plans were not produced yet but they maintain loading 2kpa except store area in 5th & 3rd floor. Up to finalize design report the factory should be maintain 2kpa.</p> <p>On 11th Dec-2017: During inspection load plan was found posted in every floor plate and load was observed below allowable limit. Final load plan shall be implemented after completion of the remediation works.</p> <p>On 25/03/2018: Load plan was produced as part of DEA which was accepted by ALLIANCE. During inspection, load plan is found posted in every floor and load was observed below allowable limit. Factory management has completed all remediation work as per suggested DEA.</p>	Corrected	
12	The areas are 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.	6/29/2014 12:00:00 AM	Completed (As per Alliance 3rd RVV on 18.07.2016)	09/02/2015	<p>On 15th Nov-2015: load level marking were not produced yet but they maintain loading 2kpa except store area in 5th & 3rd floor. Up to finalize design report the factory should be maintain 2kpa.</p> <p>On 11th Dec-2017: During inspection load marking was observed in the storage areas.</p> <p>On 25/03/2018: Corrected from previous follow up inspection. Load limit marking is observed in storages area.</p>	Corrected	
13	There is no certificates of Occupancy for review.	Provide Certificates of Occupancy for review.	6/29/2014 12:00:00 AM	Not Applicable (As per Alliance 3rd RVV on 18.07.2016)	18/03/2015	<p>On 15th Nov-2015: The factory collect some certificate from consultant but yet not get any O/C from Government authority so the factory discussed with ALLIANCE about this issue.</p> <p>On 11th Dec-2017: As per Alliance RVV report, this issue is not applicable.</p> <p>On 25/03/2018: N/A</p>	Corrected	