

FIRE SAFETY INSPECTION REPORT

Tamai Knit Fashion Ltd.

ACCORD ID: 12559

141/A, BSCIC Industrial Area, Fatullah, Narayanganj

23.625855, 90.479220

Other Factories: None



Inspected by: Md. Rakibul Alam & Nirmal Chandra Sinha

Date: 01 September, 2016



Summery

Tamai Knit Fashion Ltd. was surveyed for fire safety on September 01, 2016 by The Accord Inspection Team. This summary identifies the major deficiencies that were identified during the inspection. The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

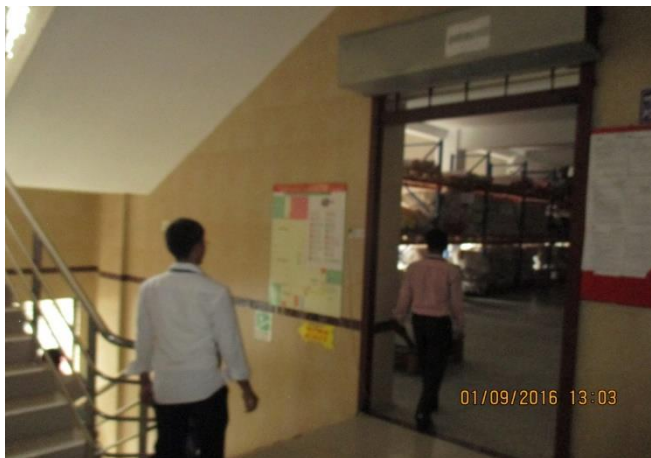
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.



Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction due to unprotected openings and penetrations.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.	Within 3 months





F-2 Egress

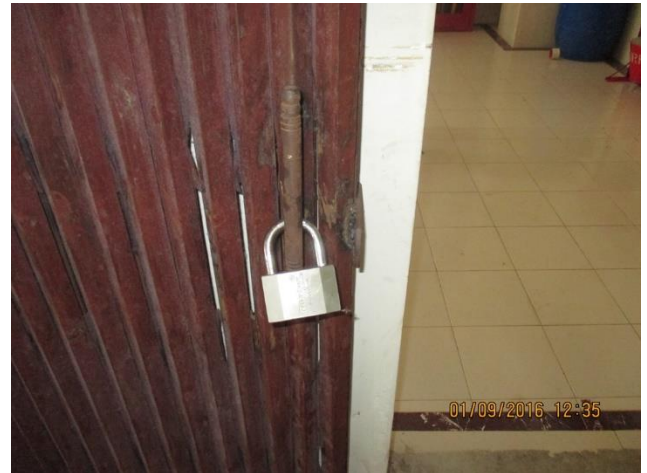
Egress gates on the all floor with locking features are provided at all exits & exit discharge.

Remove locking features from all egress gates.

Immediately

If locks are required for security reasons, utilize special door locking features complying with ACCORD standard 6.8.2.





F-3	Fire Rated Construction	Room on the ground floor used for combustible storage is not separated by a minimum 1-hr fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-4 Fire Rated Construction

Unsealed electrical shaft is located in the fire-rated floor/ceiling assemblies.

Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.

Within 3 months



F-5	Fire Rated Construction	The boiler open on the 2 nd floor and is not separated by fire-rated construction.	Separate the boiler room by a minimum 2-hr fire-rated construction for high rise, Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer.	Within 3 months
			If applicable: When located to the exterior of a building, separate the boiler by by a minimum distance of 3m (10 ft).	



F-6	Fire Rated Construction	Areas on the 1 st , 2 nd and 6 th floor used for combustible storage open to the factory are not properly defined and/or not within limits.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45m (8 ft) and maximum area of 23 m² (250 ft²). If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m² (1000 ft²). Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).	Within 3 months
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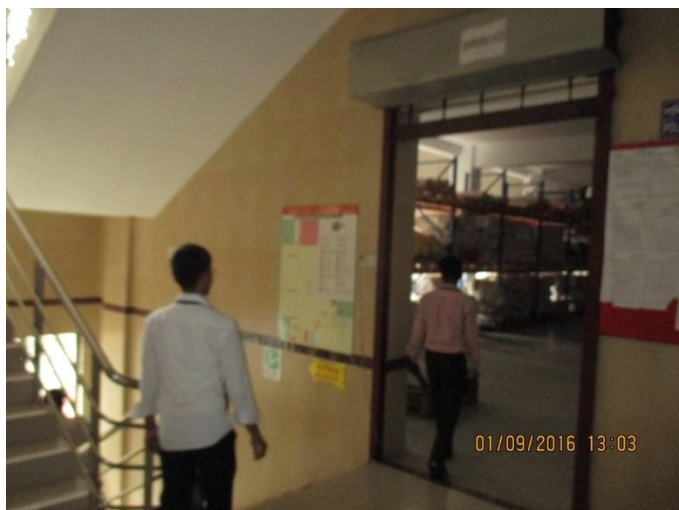


F-7	Fire Rated Construction	The generator room, sub-station room and transformer room on the ground floor is not separated by fire rated construction.	Separate the generator room, sub-station, and transformer room by a minimum 2-hr fire rated construction. Seal or/and protected all non openings and penetrations to maintain the required rating.	Within 3 months
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F-8	Fire Rated Construction	Storage room, sub-station room and Generator room at ground floor discharges directly into the exit stair discharge.	Openings from exit enclosure to storage room, generator and transformer spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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F-9	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures.	Seal all penetrations and openings in exit stair enclosure walls to maintain the required fire separation.	Within 3 months
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F-10	Fire Rated Construction	The south and east exit stairwell stairs are not enclosed in fire rated construction.	Provide 2-hr continuous stairwell enclosure on each floor level.	Within 3 months
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F-11	Egress	Collapsible gates, sliding doors and roll down shutter type doors are provided at the building exits, exit stairs, along egress routes and exit discharge.	Replace all gates, sliding Doors and rolling shutters along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
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F-12 Fire Protection

The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.

Replace the fire alarm system with a new, listed automatic fire alarm system in accordance with NFPA 72 and ACCORD standards.

Design within 4 months
Install within 9 months





F-13	Fire Protection	Inspection, testing and maintenance of the automatic fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the automatic fire alarm system and keep written records on-site, in accordance with NFPA 72 (after installation).	Within 1 month
F-14	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with automatic sprinkler protection.	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13 and ACCORD standards.	Design within 6 months Install within 12 months
F-15	Fire Protection	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system and keep written records on-site, in accordance with NFPA 25 (after installation).	Within 1 month



F-16	Fire Protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 (after installation).	Within 1 month
F-17	Egress	Egress door serving 50 or more occupants but does not swing in the direction of egress travel.	Modify swing direction of egress doors to the direction of egress travel.	Within 3 months

Various Locations.



F-18	Egress	The width of egress aisles is less than 36-in. At different floors.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months
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F-19	Egress	East exit stair doors are swing directly on the stair landing in the direction of egress travel. Various floor.	Modify the egress door to swing in the direction of egress travel in a way that it does not swing over stair landing and does not reduce the exit width/interrupt the egress path.	Within 3 months
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F-20	Egress	Fire evacuation maps is not posted at the entrance of the exits at most of the floors.	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs.	Within 1 month
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F-21	Egress	Handrails are not provided on both sides of both exit stairs.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)	Within 3 months
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F-22	Egress	The day-care room does not meet ACCORD standard 3.4.2.1.1. Located at 2 nd floor.	Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure. If the above is not possible provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair with ACCORD approval.	Within 3 months
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F-23 Egress

Occupiable roof is not provided with an adequate parapet / guard rail.

All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)

Within 3 months



F-24	Egress Lighting	Exit signage not illuminated (burned out, broken, etc.).	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m ² may also be used.	Within 1 month
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F-25	Egress Lighting	Exit signage was not provided at all the exits / along the path of egress / in a readily visible location.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
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F-26	Egress Lighting	Emergency lighting did not function in test mode (burned out, broken, etc.).	Regularly test the emergency lighting system on each floor and replace/repair lights as needed.	Within 1 month
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F-27	Egress Lighting	Manual on-off switch is provided for emergency lighting and exit signage units.	Remove manual on/off switches from emergency Lighting & exit signage units to prevent them from being switched off.	Within 1 month
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F-28	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with ACCORD standards.	Inspect, test and maintain the emergency lighting system in the accordance with ACCORD standards. Keep written records on-site.	Within 3 months
F-29	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
F-30	Egress	Building did not have stair designation sign, occupant load sign & floor level signs at required locations.	Provide occupant load sign, stair & floor designation signs at required locations.	Immediately
F-31	Egress	Storage was located in the all exit stairs. At ground floor level.	Remove all storage from exit stairs.	Immediately





F-32	Fire Protection	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month
F-33	Fire Protection	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records on-site, in accordance with NFPA 10.	Within 1 month

