

# **FIRE SAFETY INSPECTION REPORT**

**MEEK KNIT LTD.**

**ACCORD ID: 12030**

**930 CHOWDHURY CITY TOWER, VOGRA, NATIONAL  
UNIVERSITY, JOYDEBPUR, GAZIPUR.**

**OTHER FACTORIES: NONE**



**ACC RD**  
on Fire and Building Safety in Bangladesh

November 3, 2015

## **SUMMARY**

**Meek Knit Ltd. was surveyed for fire safety on 11/3/2015 by Jensen Hughes. 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
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F-1	Fire Rated Construction	Electrical panels were located in the exit stair enclosure.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months
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F-2	Fire Rated Construction	The boiler room on the ground is not separated by fire-rated construction due to openings, non-rated doors, penetrations.	Separate the boiler room by a minimum 1-hr fire-rated construction for non-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
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F-3	Fire Rated Construction	Areas on all floors 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 23m <sup>2</sup> (250 ft <sup>2</sup> ) - If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m <sup>2</sup> (1000 ft <sup>2</sup> )  Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10 ft).	Within 3 months
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F-4	Fire Rated Construction	Rooms on the basement and ground floor used for combustible storage are not separated by a minimum 1-hr fire-rated construction.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"><li>- Maximum height of 2.45m (8 ft) and maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>)</li><li>- If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m<sup>2</sup> (1000 ft<sup>2</sup>)</li></ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft).</p>	Within 3 months
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F-5	Fire Rated Construction	Exit stairs are not separated from work areas 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.	Within 3 months
			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.	



F-6	Fire Rated Construction	Fire-rated floor/ceiling assemblies on all floors have unprotected openings / penetrations.	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-7	Fire Rated Construction	Storage room on ground floor discharges directly into exit stair enclosure.	<p>Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings.</p> <p>Provide a 1.5 hr fire rated door on the exit stair side and a 1-hr fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p>	Within 3 months
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F-8	Egress	Building did not have stair designation signs and occupant load signs at required locations throughout the building.	Provide stair designation signs and occupant load signs at required locations.	Immediately
F-9	Egress	Egress doors / gates throughout the building with locking features are provided at building exits, exit stairs, along egress routes and exit discharge.	Remove locking features from all egress doors / gates.  If locks are required for security reasons, utilize special door locking features complying with ACCORD standard 6.8.2.	Immediately



F-10	Egress	Storage was located in all exit stairs.	Remove all storage from exit stairs.	Immediately
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F-11	Egress	Collapsible gates / sliding doors throughout the building are provided at building exits, exit stairs, along egress routes and exit discharge.	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month
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F-12 Egress

The width of egress aisles on various floors are less than 36-in.

Provide minimum aisle widths of 36-in.

Within 3 months



F-13 Egress

Both exit stairs serve more than 5 stories and do not have required re-entry provisions.

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-14	Egress	Handrails are not provided on both sides of the exit stair.	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-15	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
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F-16	Fire Protection	The high-rise building has plans to construct an occupied floor greater than 23m (75 ft) and will require 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-17	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 months
F-18	Fire Protection	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and ACCORD standards.	Within 3 months

F-19	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
F-20	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 and ACCORD standards.	Within 3 months
F-21	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and ACCORD standards.	Within 3 months
F-22	Fire Protection	Fire pump is not provided and appears to be needed for the standpipe system fire demand.	Provide a fire pump in accordance with NFPA 20 and ACCORD standards, or provide an alternative water supply source capable of meeting the required fire protection demand, subject to ACCORD approval.	Within 6 months
F-23	Fire Protection	Standpipe system is required for the building, which has an occupiable floor 10 m (33 ft) or more above grade.	Install a new class III standpipe system in accordance with ACCORD standard 5.4 and NFPA 14. A class I system shall be permitted in buildings protected throughout by an approved automatic sprinkler system.	Within 6 months



F-24	Fire Protection	Visible / audible notification was not provided for the building in accordance with NFPA 72.	Provide visible / audible notification for the building in accordance with NFPA 72.	Within 9 months
F-25	Fire Protection	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72 and ACCORD standards.	Within 9 months



F-26	Egress Lighting	Exit signage in various locations are 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 <sup>2</sup> may also be used.	Within 1 month
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F-27	Egress Lighting	Manual on-off switch is provided for exit signage units throughout the building.	Remove manual on/off switches from 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
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F-29	Egress Lighting	Based on the number and location of emergency lights observed throughout the building, 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
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