

INITIAL FIRE SAFETY INSPECTION REPORT

GMS Trims Ltd.

RSC ID: 24260

Sardaganj, Kashimpur, Gazipur-1346, Bangladesh.

Geographical Coordinates of factory building: 23°58'07.0"N 90°17'49.5"E

Other Factories: GMS Composite (Factory ID: 9191, same premises)



Inspected By: Safawan Abyaz, Md. Ferdaus Jaman

Date: 25 October 2021

Findings & Recommendations :

Table 1-4 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 RSC for approval.

Table-1: Building No. 01: Trims Building, Worker Dining & Office Shed

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit enclosures are not properly fire separated from other occupancy specially at roof floor by fire rated construction. Location: Trims building	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware. 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	Fire Rated Construction	Elevator shafts are directly open into the inside of the stairs. Located: Trims Building	For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3. So, separate the stair enclosure from elevator shaft although the building.	Within 3 months
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F-3	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures. Location: North-east stair (stair-3) of Trims building	Seal all penetrations and openings in exit stair enclosure walls to maintain minimum 2-hrs fire separation.	Within 3 months
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F-4	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Accessories store on 1st floor of Trim building	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.	Within 3 months
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F-5	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: On 2nd, 5th & 6th floor.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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F-6	Fire Rated Construction	Unsealed penetrations and openings (electrical cable riser) are located in the fire rated floor/ceiling assemblies. Location: All floors of Trims building	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level. or Seal all penetrations and openings in floors/ceiling assemblies by listed fire stop materials to maintain the fire separation.	Within 3 months
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F-7	Fire Rated Construction	Dining shed/area is not separated by fire-rated construction from production floor of Trims Building on ground floor (openings and penetrations). Location: Trims Worker Dining & Office Shed	Separate the dining area from others occupancy by a minimum 3-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months
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F-8	Fire Rated Construction	The exit discharge path serving the exit discharge from dining shed is less than 10 ft. wide and is not separated from the building interior. Location: Trims Worker Dining & Office Shed	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire separation. Alternatively, provide a second remote discharge path to the public way.	Within 6 months



F-9	Egress lighting	Directional exit signs are not provided where direction of the path of travel to an exit is not obvious. Location: All floors of Trims Building	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 1 month
				

F-10	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes located at each level. Location: All floors of Trims building.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3months
 				
F-11	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard. Location: Trims building and Trims Worker Dining & Office Shed	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3months

F-12	Fire Alarm & Detection System (FADS)	Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Location: Trims Building Trims Worker Dining & Office Shed	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Upon approval & installation the owner shall contact the RSC prior to conducting the final acceptance testing of the fire detection & alarm system installation.	Within 6 months
F-13	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 6 months

F-14	Fire Protection System(Standpipe)	The building has highest occupied floor at more than 10m (33 ft.) and it requires a Class-III standpipe system. The installed fire protection system design has not been reviewed from the RSC. Location: Trims Building	Submit the standpipe system drawing to RSC for review & approval. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 25. The owner shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Within 6 months
F-15	Fire Protection System (Sprinkler)	The high-rise building has an occupied floor greater than 23 meter (75 feet) and is not provided with automatic sprinkler protection. Location: Trims Building	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13. Upon approval & installation the owner shall contact the RSC prior to conducting the final acceptance testing of the sprinkler system installation.	Design within 6 months, install within 12 months

F-16	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe/sprinkler system is not in accordance with NFPA 25 or as per Accord standard. Location: Trims Building	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard	Within 6 months
F-17	Fire Protection System (Fire Pumps & Water Supply)	Fire pump & water supply system installation requires detailed review to confirm compliance with NFPA 20, 22, 25 and ACCORD standards.	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Upon approval & installation/modification the owner shall contact the RSC prior to conducting the final acceptance testing of the standpipe system installation. Also inspect, test & maintain fire pumps & water supply system and keep written records on-site, in accordance with NFPA 20, 22, 25 and ACCORD standards.	

Table-2: Building No. 02: Poly Building and Poly Dana Shed

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Elevator shaft directly opens into the inside of the East Stair (stair-1). Located: Poly Dana Building	For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3. Rearrange the facility to provide separate lobby or enclosure for lifts.	Within 6 months
				

F-2	Fire Rated Construction	Unsealed penetrations and openings (electrical riser) are located in the fire rated floor/ceiling assemblies. Location: Poly Building	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level. or Seal all penetrations and openings in floors/ceiling assemblies by listed fire stop materials to maintain the fire separation.	Within 3 months
				
F-3	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Poly Dana building and Poly Dana shed	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 1 months

 				
F-4	Fire Alarm & Detection System (FADS)	Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Location: Trims Building and Dining Shed	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Upon approval & installation/modification the owner shall contact the RSC prior to conducting the final acceptance testing of the FADS system installation.	Within 6 months
F-5	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 6 months

F-6	Fire Protection System(Standpipe)	The building has highest occupied floor at more than 10m (33 ft.) and it requires a Class-III standpipe system. The installed fire protection system design has not been reviewed from the RSC. Location: Trims Building	Submit the standpipe system drawing to RSC for review & approval. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 25. The owner shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Within 6 months
F-7	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per Accord standard	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard	Within 6 months

F-8	Fire Protection System (Fire Pumps & Water Supply)	Fire pump & water supply system installation requires detailed review to confirm compliance with NFPA 20, 22, 25 and ACCORD standards.	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Upon approval & installation/modification the owner shall contact the RSC prior to conducting the final acceptance testing of the standpipe system installation. Also inspect, test & maintain fire pumps & water supply system and keep written records on-site, in accordance with NFPA 20, 22, 25 and ACCORD standards.	Within 6 months
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Table-3: Shed No. 02: Bonded Warehouse Shed

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The main structural elements of the shed building are constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Bonded Warehouse Shed	The new construction is a steel structure which shall be type-I or II construction. So, provide required rating of the structural elements of the shed. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
				

F-2	Fire Rated Construction	The raw material store is not separated by fire rated construction from the adjacent woven label & jacquard elastic section. Location: Bonded Warehouse Shed	Separate the dedicated storage room by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.	Within 3 months
				
F-3	Egress	Egress doors/gates with locking features not complying with NFPA101 are provided at building exits. Location: Bonded warehouse and oven label jacquard elastic shed	Provide push bar or panic exit hardware fitted with the doors instead of any double motion disengaging locks.	Within 1 month

 				
F-4	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit is not obvious Location: Bonded Warehouse Shed	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 1 months
 				

F-5	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes located at each level. Location: Raw Material Store	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3months
F-6	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard. Location: Raw Material Store	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3months
F-7	Fire Alarm & Detection System (FADS)	Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Location: Bonded Warehouse Shed	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Upon approval & installation/modification the owner shall contact the RSC prior to conducting the final acceptance testing of the FADS system installation.	Within 6 months

F-8	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 6 months
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Table-4: Poly Recycle Shed

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The main structural elements of the shed building are constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Poly Recycle Shed	The new construction is a steel structure which shall be type-I or II construction for RMG use. So, provide required rating of the structural elements of the shed. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
 GMS Trims Evidence 25 Oct 2021, 13:08				

F-2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: Poly Recycle Shed	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
 				

F-3	Egress	Egress doors/gates with locking features not complying with NFPA101 are provided at building exits. Location: Poly Recycle Shed	Remove locking features from all egress doors/gates. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101. or, Provide push bar or panic exit hardware fitted with the doors instead of any double motion disengaging locks.	Within 1 month
				

F-5	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. Location: Poly Recycle Shed	Design and install an addressable fire detection & alarm (Audio & Visual) system replacing the existing one in compliance with NFPA 72 & Accord standard. Submit the design to Accord for review and approval before installation. Upon approval & installation the owner shall contact the RSC prior to conducting the final acceptance testing of the fire detection & alarm system installation.	Design within 2 months, Install within 4 months
F-6	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 6 months
F-7	Fire Detection System (ITM of FADS)	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 shed, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months

F-8	Fire Detection System (ITM of FADS)	The fire alarm system does not appear to provide adequate audible notification coverage.	Provide listed/approved notification appliances such that the fire alarm system is audible throughout the shed in accordance with NFPA 72.	Within 6 months
F-9	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard. Location: Poly Recycle Shed	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months