

FIRE SAFETY INSPECTION REPORT

**MARMA COMPOSITE LTD.
TONGABARI, ASHULIA**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

June 29, 2014

SUMMARY

Marma Composite Ltd. was surveyed for fire safety on 6/29/2014 by Hughes Associates, Inc. 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.

Tables 1 - 2 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 - Main Shed

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Storage rooms and areas used for combustible storage are not separated by 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"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months



F-2	Fire Rated Construction	<p>The transformer room on the ground floor is not separated by fire-rated construction from the knitting area.</p> <p>The boiler room on the ground floor is not separated by fire-rated construction from the finishing area.</p>	<p>Separate the transformer and boiler rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations</p>	Within 3 months
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F-3	Egress	<p>Egress gates with locking features are provided at all exit discharges.</p>	<p>Remove locking features from all egress doors / gates.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p>	Immediate
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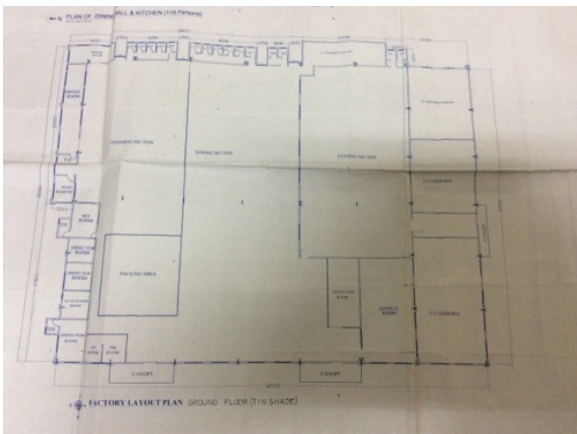
F-4	Egress	Storage was located in the egress path in the finishing area.	Keep egress paths and stairs clear of storage.	Immediate
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F-5	Egress	Collapsible and sliding gates are provided at all discharges.	Replace all collapsible gates along the means 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 3 months
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F-6	Egress	An egress path from a production area passes through a storage room.	Provide additional exit(s) OR	Within 3 months
			Provide 2-hr fire-rated exit passageway leading directly outside.	
			OR	
			Provide sprinkler protection in accordance with NFPA 13.	



F-7	Egress	The width of egress aisles is less than 36-in. in the cutting area and on the mezzanine in the storage area.	Provide minimum aisle widths of 36-in.	Within 3 months
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F-8	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 addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months
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F-9	Fire Protection	Inspection, testing, and maintenance for the fire alarm system was 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.	Within 3 months
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F-10	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.	Within 6 months
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F-11	Egress Lighting	Exit signage was double sided, indicating exits where none existed.	Replace existing double sided exit signage to indicate direction of exit.	Within 1 month
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F-12	Egress Lighting	Inspection, testing, and maintenance records for the emergency lighting system were not in accordance of the ACCORD standards.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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Table 2. Findings And Recommendations - Knitting Shed

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Storage rooms and areas used for combustible storage are not separated by 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"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months



F-2	Egress	Egress gates with locking features are provided at all exit discharges.	Remove locking features from all egress doors / gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-3	Egress	Storage was located in the egress path from the toilet.	Keep egress paths and stairs clear of storage.	Immediate
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F-4	Egress	Sliding doors are provided at some discharges.	Replace all collapsible gates 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 3 months
F-5	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 addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months



F-6	Fire Protection	Inspection, testing, and maintenance for the fire alarm system was 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.	Within 3 months
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F-7	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.	Within 6 months
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F-8	Egress Lighting	Inspection, testing, and maintenance records for the emergency lighting system were not in accordance of the ACCORD standards.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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