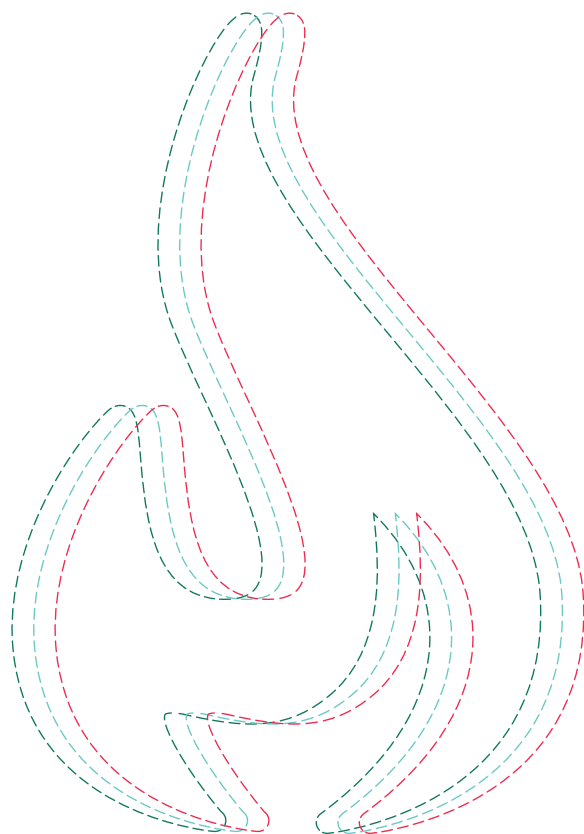


September 2015



# PRACTICAL REMEDIATION GUIDANCE

for RMG Factories, Signatory Companies and Trade Unions



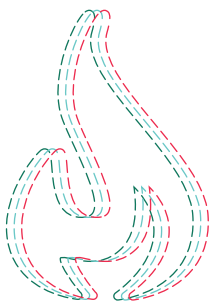
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## INTRODUCTION

This Practical Remediation Guidance provides factory owners, managers, signatory companies and trade unions with answers to common remediation queries that the Accord is receiving regarding:

- List of equipment suppliers and vendors,
- Fire Alarm and Fire Protection system designs
- Locking features, collapsible gates/sliding doors/rolling shutters
- Fire door certification
- Detailed engineering assessments and structural retrofitting works

### 1. LIST OF SUPPLIERS:

The list of suppliers we have compiled to help factories to source fire equipment is based on the information provided by the suppliers. We do not make any quality check during the process of enlistment. The list is not an endorsement or approval by the Accord. There is no approved supplier list by the Accord. Please refer to **Appendix A** for an updated list of suppliers.

### 2. FIRE ALARM AND FIRE PROTECTION SYSTEM DESIGNS:

All fire alarm designs, sprinkler system designs and standpipe (hydrant) designs shall be submitted to the Accord for review prior to installation. If the installation work is done without reviewed designs, the system might not be recognized by the Accord. Please refer to **Appendix B** for drawing submission criteria.

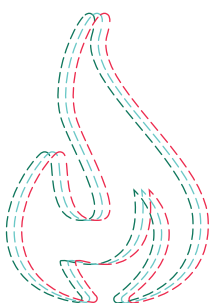
### 3. LOCKING FEATURES, COLLAPSIBLE GATES/SLIDING DOORS/ROLLING SHUTTERS:

Under the national building code and the Accord, Alliance, and BUET standards, collapsible doors or gates (horizontal, vertical, roll-up or accordion style) are prohibited in RMG factory egress routes.

- All collapsible gates must be permanently removed from the doorways and stairways which lead to an exit of the building.
- There are no exceptions to this requirement. All lockable, collapsible gates must be removed from all exits from the RMG factory buildings.
- Fire doors can be equipped with security hardware and locks which permit locking from the outside where the door can still be opened from the inside (even when the door is locked from the outside).
- Fire doors with permitted locking systems as described above provide the same level of security as collapsible gates.
- The time lines in the inspection report are to be followed strictly.

### 4. FIRE DOOR CERTIFICATION:

- The fire doors must be certified and manufactured by an authorized fire door manufacturing facility.
- There is currently no authorized manufacturer of certified fire doors in Bangladesh.
- There is currently no authorized Bangladesh based certifier of fire doors or fire door manufacturing facilities.
- **Please exercise care not to purchase doors which are not certified:** the inspections initiatives are receiving information that fire doors are being marketed which have inauthentic seals or labels which are not really certified doors. These do not meet the Accord, Alliance, or national standards. If installed, they would have to be replaced by actual certified fire doors.
- **To verify the door you are purchasing is certified:** Ask the supplier for the 3rd party certification (i.e. UL, FM, Intertek, Warrington). Factory owner can then check the online directory to verify the authenticity of the 3rd party certification using the manufacturer's traceable identification number which is on the door rating label.
- Fire doors shall be equipped with panic hardware and a self-closing device. The door must close and latch after each use, or be equipped with a magnetic hold open device



designed to release on fire alarm.

- Exit doors must always be of the “swing” type. All fire doors must swing out, in the direction of exit travel.
- All fire door hardware such as hinges, panic bar, self closer, vision panel and locks must also be certified. There is currently no certified hardware produced in Bangladesh. There is currently no authorized Bangladesh based certifier of fire door hardware manufacturing facilities.
- Acceptable certification and authorizations for fire doors include: UL, FM, INTERTEK, Warrington etc.

If an Accord factory wishes to confirm the acceptability of a fire door prior to purchasing, they can send all of the manufacturer’s literature including testing certification to the Accord and we will determine acceptability. Please refer to **Appendix C** for fire door requirements.

## **5. DETAILED ENGINEERING ASSESSMENTS:**

Please note the following considerations regarding DEAs:

- We do not have any short list of consulting firms to conduct DEA at this time
  - The factory should get approval from the ACCORD before entering into a contract with any firm to conduct a DEA.
  - Our requirements of the consulting firm for conducting DEAs are:
    - 5+ years of experience of the consulting firm in relevant field
    - 10+ years of experience of the concerned engineer in relevant field
  - The final DEA report must be approved by the ACCORD.
  - No retrofitting work shall commence without approval from the ACCORD.
  - For more details please contact the ACCORD Structural Team.
- No additions to buildings are allowed without prior approval from the Accord.

The Accord engineering team is available to advise on the above matters where necessary. Please contact them with any further queries:

Mohammad Shafiq Uddin, Accord Lead Structural Engineer  
mohammed.uddin@bangladeshaccord.com

Md. Kamrujjaman  
General Manager – Engineering  
md.kamrujjaman@bangladeshaccord.com

Shahin Azad  
Accord Lead Electrical Engineer  
shahin.azad@bangladeshaccord.com

Brad Loewen  
Chief Safety Inspector  
brad.loewen@bangladeshaccord.com



## APPENDIX A

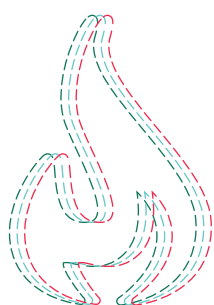
### List of suppliers and vendors:

N.B.: It is simply a list of suppliers that we are aware of; it is not an endorsement or approval by the Accord.

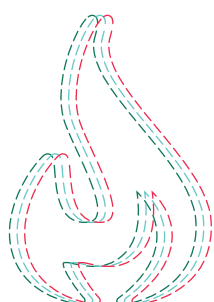
### This is not an Approved list by the ACCORD.

Sl	Vendor	Main Business area/s	Contact Person	Cell Number	Email address
1.	TRI-ZONE	Fire Suppression System; Hydraulic Calculation; Fire Alarm System; Fire Doors.	Mr. Ziaul Islam CEO	+8801670024098 +8801977124627	ziaul.islam@gmail.com
2	Guraba Telecom Bangladesh Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	Mr. K.M Shamsul Huq-CEO	+8801730704118	tareque@gurabatel.com
3	HARBINGER TRADING	Fire Suppression System; Fire Alarm System; Fire Doors.	Mr. Mamun Chowdhury- CEO	+8801711543485 +8801938854767	Mamun752003@yahoo.com
4	Micro Electrical Mechanical Solution Ltd.	Fire Suppression System; Fire Alarm System;	Md. Zafar Hossain Executive Director	+8801712834949 +8801967700352	nafis.glexus@gmail.com
5	The Tool Master& Eng. Co.	Fire Suppression System; Fire Alarm System; Fire Doors	Al Mamun (Bulbul)	+8801674634723	toolmasterbd@gmail.com; tool_mster@yahoo.com
6	Multisystem Eng. Co. Ltd.	Fire Suppression System; Fire Alarm System;	Mr. Nafis	+8801720056249 +8801755507628	nafis@mecl-bd.com; info@mecl-bd.com
7	Symantec Technologies Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors.	Mr. Rashadul Islam Asst. Manager	+8801614047449 +8801614047444	mamun@symantecbd.com; management@symantecbd.com
8	Bengal International Agencies	Fire Suppression System; Fire Alarm System;	Mr. Shahjahan Saju Managing Director	+8801819405398 +8801979405398	bengal.fire@yahoo.com; mecj.bms@yahoo.com
9	Genesis Technologies Ltd.	Fire Suppression System; Fire Alarm System;	Mr. Omar Faruk Director	+8801914067101	faruk@gtl.com.bd; info@gtl.com.bd
10	ICEL Private Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors.	Mr. Javed Mahmood Managing Director	+8801819777779 +8801199856500	javed@icelbd.com
11	Multi Product Engineering Limited.	Fire Suppression System; Fire Alarm System; Fire Doors.	Mr. Proboadh Kumar Saha General Manager	+8801713030108	pks@mplmagnum.com
12	ZM International	Fire Suppression System; Fire Alarm System;	Mr. Zakir Uddin Ahmed CEO	+8801920098535	zakir@zmintl.com
13	Bangladesh Techno rise Limited	Fire Suppression System; Fire Alarm System;	Mr. Kausarul Hakim Managing Director	+8801711548167	info@technorise.com
14	Aim Tech Ltd	Fire Suppression System; Fire Alarm System; Fire Doors.	Engr.Ataul Kabir Director	+8801755504218	akabir971@gmail.com

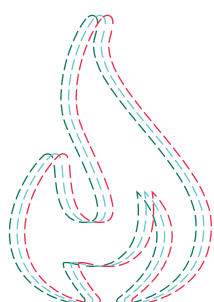
15	GRASSHOPPER	Fire Suppression System; Fire Alarm System; Fire Doors; PPE;	Md. Mahmudur Rashid- Managing Director;	+8801917960900 +8801787671919	info@grasshoppergroupbd.com; grasshopper_bd@yahoo.com
16	NAVANA INTERLINKS LIMITED	Fire Suppression System; Fire Alarm System; Fire Doors.	Prashanta Kumar Saha	01713426904; 01939911899	pksaha@navana-iv.com
17	Morgen International	Fire Suppression System; Fire Alarm System; Fire Doors.	Md. Niaz Ali Chisty- CEO	+8801711531486	morgenbd@gmail.com
18	Pacific Engineers International	Fire Suppression System; Fire Alarm System; Fire Doors.	Md. Shahnewaj Rashedi	+8801913511447	pacificfei@gmail.com
19	TECH.ME Engineering PVT Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	Sujit Kumar Dey	+8801713002402	sujit@techmeengg.com
20	Emkay Enterprises Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	SAM Toufiqul Alam	+8801766666910	toufique@emkayenterprise.com
21	Zed Technology	Fire Hydrant and Fire Alarm System	Anwar Hossain	+8801790111188, +8801977411188	corporate@zedtechbd.com; zetechcorporate@gmail.com; web:www.zedtechbd.com
22	OLYMPIA FIRE PROTECTION	Fire Suppression System; Fire Alarm System; Fire Doors	MD.WAHID UDDIN (DIRECTOR)	+8801711546983	wahiduddinmd@gmail.com; www.ofpbd.net
23	ATS GROUP (Al-Amin Trade Syndcate)	Fire Suppression System; Fire Alarm System; Fire Doors	M.A. KHAN JEWELL	+8801911339990	Btel.bd77@yahoo.com
24	ABG Engineering Services Ltd.	Fire Suppression System; Fire Alarm System;	Mr. Ferdous Alam Managing Director	+8801713065871 +8801973992702	alam@abgbd.com; alam777bd@gmail.com
25	Faa Associates Ltd.	Fire Doors	Iqbal forkan	+8801822220090	iqbal@faaassociates.com
26	Sygra International Inc.	Fire Suppression System; Fire Alarm System; Fire Doors	Mahbub Choudhury	+8801715505555	mahbub.choudhury@sygraint.com; www.sygraint.com
27	Project Planner And Consultant	Fire Suppression System; Fire Alarm System; Fire Doors	Md.Nuruddin Sohel; Chief Operating Officer	+8801913027001, +8801713044656	projectplannerandconsultant@gmail.com; www.projectplannerandconsultant.com
28	Auspicious Bangladesh	Fire Suppression System	Syed Golam Rabby	+8801678005689	rabby@auspiciousbd.com
29	KS International	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Wahedunabi Mondal	+8801780222211	info@ksinternationalbd.com
30	BENGAL TECHNOLOGICAL CORPORATION LTD.	Fire Suppression System; Fire Alarm System; Fire Doors	Chandan K Shah Manager Projects	+8801755579825	btelprm@yahoo.com
31	Ace Controls Limited	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Abdur Rahman Sales Engineer	+8801915360345	abdur.rahman@acecontrolsltd.com; http://www.acecontrolsltd.com
32	Meghna Fire Fighting and Equipments	Fire Suppression System; Fire Alarm System; Fire Doors	Nur E Alam- Managing Director	+8801711234762	meghnafirebd@gmail.com
33	Pran RFL Group	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Rashedul Rahman	+8801912257271	Coo.rmil@prangroup.com; rfl58@prangroup.com; www.pranrflgroup.com



34	NewGen Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	Engr. Sheehab Quadir	+88018622222	Mahabur.rahman@gurababd.com; info@gurababd.com
35	Atlantech	Fire Suppression System; Fire Alarm System; Fire Doors	Shaklayen Shaheed (Joy)- CEO	+8801841504773; +8801747504773	ceo@atlantechbd.com
36	ETA FIRE ALARM & SECURITY SYSTEM	Fire Suppression System; Fire Alarm System; Fire Doors	Abu Saker Shohel-CEO	+8801736277433; +8801681524889.	saker135@yahoo.com
37	Luminous Associates	Fire Suppression System; Fire Alarm System; Fire Doors	Mohd. Noor Nabi-Owner	+880189223168	info@luminous-bd.net
38	Eastern Fire Solution	Fire Suppression System; Fire Alarm System; Fire Doors	HM Bulbul Ahmed-MD	+8801726567062	efs_fire@yahoo.com
39	MAMS Automation Systems	Fire Suppression System; Fire Alarm System; Fire Doors	Fazlur Rahman Jewel; Assistant Manager	+8801766676615	www.mamsbd.com
40	Mechanism Trade & Engineering	Fire Suppression System; Fire Alarm System; Fire Doors	MD SAKHAWAT HOSSAIN	+8801713273033; +8801712513770	sales@mecahnismtrade.com, mechanismtrade@yahoo.com; info.mtel.bd@gmail.com, enquiry@mecahnismtrade.com,
41	M/S SIGMA GROUP	Fire Suppression System; Fire Alarm System;	Preetam Basu	+880-2-9122165, 9128395	www.sigma-bd.com
42	Binary Signature	Fire Suppression System; Fire Alarm System;	Md. Rafiqul Islam	01678629555-57	info@binarysignature.com
43	Soyeb Enterprise	Fire Suppression System; Fire Alarm System;	S.M. Ezaz Shamim	+8801711536235; +8801611536235;	Teehan_ezaz@yahoo.com
44	ATCL Pvt. Ltd	Fire Suppression System; Fire Alarm System;	Md. Asraful Alam	+8801983603860	Ashraful_mr9@yahoo.com; info@atclbd.net
45	Techno Apogee	Fire Suppression System; Fire Alarm System;	Md. Mosaddique Hossain	+8801714378008	ceo@technoapogee.com
46	MEP Engineering Consultancy Firm	Fire Suppression System; Fire Alarm System;	Engr. Md. Masud Kawsar	+8801613837902; +8801710189680	masud.mep@gmail.com; mepecf@gmail.com (Office)
47	EMACO ENGINEERING & TECHNOLOGY Limited	Fire Suppression System; Fire Alarm System;	Mohammad Omar Faruque	+88 01817-181-250/+88 01823-072-560	omar.emaco@gmail.com
48	BAFFESCO	Fire Suppression System; Fire Alarm System;	Arick Nikolas Recardo		baffesco5@gmail.com
49	Bangladesh Safety and Security Service	Fire Suppression System; Fire Alarm and Security System	----	029841405	info@bss-bd.com
50	Ezzy Automations	Fire Suppression System; Fire Alarm and Security System	Mohammad Shakilur Rahaman	+8801777757961	Fire.automations@gmail.com
51	A3 Associates Ltd	Building safety consultant (Fire and Electrical)	Sakib Sarker	+8801731 804030	a3associatesltd@gmail.com

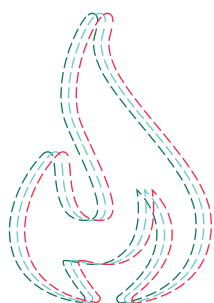


52	A4S Solution	Fire Suppression System; Fire Alarm and Security System	Md. Salim Miah	+8801924100952	a4ssolution@gmail.com
53	Sothorn Multi Products Ltd.	Fire Alarm System; Fire Doors	Md. Mehedi Hasan	+8801723888273	bde@smpkbd.net
54	Aipro Engineering and Consultancy Services	Fire Suppression System; Fire Alarm and Security System	Imran Udding Ahmed	+8801988181920	imran@aiprobd.com
55	Kuulmerchant Ltd	Fire Alarm System; Fire Doors	Md. Salah Uddin	+8801611540455	kuulmerchant@gmail.com
56	NEWTECH BANGLADESH LTD.	Building Safety Consultant and supplier (Electrical & Fire)	C N Quader, CEO	01711546934, 01680005500.	cquader@newtechltd.net
57	Zips Engineering	Fire Suppression System; Fire Alarm and Security System	Ziaul Haque	01911523911	zipseengineering.bd@gmail.com
58	Hi Tech Erection Ltd	All Kind of Electromechanical System Solution	M.A. Jalil	01752987423	hitech.erc@gmail.com
59	Critical Stop Ltd	Fire Doors	Sumana Pervin	01191010832	sumana@criticalstopbd.com
60	New-Tech International Ltd	All Kind of Electromechanical System Solution	Md. Balayet Hossen	+8801715113358	nti@dhaka.net
61	Modern Erection (IS) Limited.	Fire Suppression System;	Engr. Rafiqul Alam; Director	+8801711522928	rafiq@melbd.com fhws@melbd.com
62	Fire Pac Engineering	Fire Suppression System; Fire Alarm System	Engr. Hemon Kumar Saha; CEO	+8801717583339	iecleng@gmail.com
63	NEO Safety Solutions Ltd.	Fire Suppression System; Fire Alarm System; CCTV System; Fire Door; Floor marking	Engr.Awal Hossain; Director	+8801916928963	Awal.neosafety@outlook.com
64	MACRON FIRE SAFETY&SECURITY	The Fire Protection Specialist.	A.K.M Zobair Ansari; CEO	+8801713017646	Kingfisher.fire@gmail.com
65	Riant-tech Group	Fire Suppression System with Hydraulic Calculation; Fire Alarm System; Fire Doors;	Engr. Md. Kaisar Rijvi; Managing Director	+8801711105208	rijvi@rianttechgroupbd.com
66	Hazrat Ahmmad Ullah Trading Company;	ITALIAFIREFIGHTIG SOLUTION	S.M Shafiul basher Ripon; CEO	+8801711028580	infofaut@gmail.com
67	VALUE Engineering	FireSuppression System;Fire Alarm System; CCTV System;	Engr.Mamun Choudhury; Proprietor;	+8801199845753	facconbd@bangla.net
68	Micro Automation		Md.Abu Baker Siddque; Managing Director	+8801716-242550	Abc242550@gmail.com
69	RECL-Roktech Consulting Engineering Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	Engr. A Ahsan	+8801713066403 +8801713018292	h.ahsan@yahoo.com www.recl-igroupbd.com

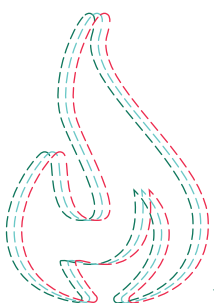




70	Safety First Pvt Ltd	Supply and installation of all kind of fire safety appliances	M.Haque MNI	031-2528170, +8801775771100 +8801715070546	capt@safetyfirst.com ; capt.safetyfirst@hotmail.com
71	Ixony Engineering Limited	Fire Suppression System; Fire Alarm System;	Mosfequr Rahman	+8801713 632703	info@ixony.com
72	Aces Corporate Solutions	Fire Suppression System; Fire Alarm System; Fire Doors	Mohammed Eakub Ali	+8801714165846	alieakub53@gmail.com ; eakub.acesbd@yahoo.com ; www.acesbd.com
73	CEL Engineering Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	Akmol Hossein	+8801713069151	Akmol71@yahoo.com; cel.engineering1@gmail.com
74	The Alpha Engineering	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Kaosar Uddin	+8801712174597	mechxim@yahoo.com; kaosar0511@gmail.com
75	GURABA Engineering Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	Engr. Md. Mahabur Rahman	+8801670886738	Mahabur.rahman@gurababd.com; info@gurababd.com
76	SHAMA International	Fire Suppression System; Fire Alarm System; Fire Doors	Shahid Mahboob	+8801711529515	shamaintltd@gmail.com; shamaintltd@yahoo.com
77	SPERRY INTERNATIONAL	Fire Suppression System; Fire Alarm System; Fire Doors	M. SHAHZAD NAFEES	+8801911360565	nafees@sam-sperry.com;
78	Re-Green Bangla	Fire Suppression System; Fire Alarm System; Fire Doors	Mustaeem B Chowdhury (Ratin)	+88 01717828450	ratin@regreenbangla.com
79	VEGA Tech	Fire Suppression System; Fire Alarm System;	Shakiluzzahan Khan	+8801713194303	vega@vegabd.com
80	Electron Service (Pvt.) Ltd.	Fire Suppression System; Fire Alarm System;	Sanaur Rahman	+8801712869934	electron@global-bd.net
81	Star Tech Engineering	Fire Suppression System; Fire Alarm System;	MA Hannan	+8801731844024	Mahannan_71@yahoo.com
82	ATCL Pvt. Ltd.	Fire Suppression System; Fire Alarm System;	Md. Abul Hasan Sobuz	+8801777192551 +8801983603860	info@atclbd.net
83	Electro Mechanical Services	Fire Suppression System; Fire Alarm System;	MD. Moshir Rahaman	+8801711828018 +8801971828018	providerems@yahoo.com
84	Genuine Technology	Fire Suppression System; Fire Alarm System;	Sayed Kamruzzaman Russel	+8801714165188	russel@gtrbd.com
85	FnG International	Fire Suppression System; Fire Alarm System; Fire Doors	Engr. Md. Kamal Uddin	+8801927242066 +8801716378297	esmkamal@yahoo.com panir_u@yahoo.com
86	OSL Engineering Co. (BD) Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	Mohammed Mahbub Hasan	+8801716851888 +8801913428261	Mahbub.oslbd@gmail.com; Mahbub_hasan26@yahoo.com
87	ABG Interlinks Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	S.M. Gofranul Hoque	+8801713453249	gofran@abg-bd.com gofranul.bd@gmail.com
88	FnG Engineering & Co.	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Kamal Uddin	+8801716378297	esmkamal@yahoo.com

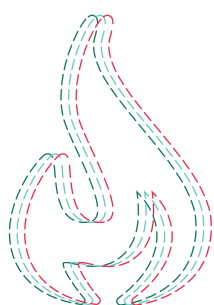


89	Banmech Ltd.	Fire Suppression System; Fire Alarm System;	Md. Shayful Islam	+880165600900	Shayful.islam@banmech.com; Shayful.banmech@gmail.com
90	Shadhin Design and Development Ltd	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Shariful Islam	+8801713315155	Engrsharif78@gmail.com
91	Pacific Trade & Technology Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	Sharfuddin Ahmed	+8801713 083537	pttlbd.ask@gmail.com
92	BGTIC GmbH	UL Fire Doors, Fire-Rated Rolling Shutters, Fire-Rated Loading Bays	Ian Green, Rafiq Hassan	+88 01787664771, +88 01766497036; +49(0)17641600468	fire.doors@bgtic.com, ian.green@bgtic.com
93	MM Safety & Security Ltd.	Fire Suppression System; Fire Alarm System; Fire Doors	Md. Abdul Matin	+8801610007704	mmsafetysecurity@gmail.com
94	Amaze Corporation Ltd	Fire Suppression System, Fire Alarm & Security System, Fire Doors & Safety Appliances, Fire Pumps & Automation systems	Mr. Mehdi Haroon Sales Co-ordinator	+8801766669911	mehdi@amaze-power.com
95	Z3 Corporation	Fire Suppression System, Fire Alarm & Security System, Fire Doors & Safety Appliances, Fire Pumps & Automation systems	Zubayr Shahid Managing Director	Mob: +880 167 099 0904 Tel: +880 (0)2 883 5297 Fax: +880 (0)2 883 5297	zubayr@z3corporation.com, info@z3corporation.com;
96	Eastern Fire Fighting & Co Ltd.	Fire Suppression System, Fire Alarm System	Md. Mahmudul Hassan	+8801715957949	Sangram.hassan@yahoo.com
97	DynSoL	Fire Safety and Risk Assessment, Fire Suppression System, Fire Alarm System and Fire Doors	Engr. Md. Borhanul Akhtar	+8801717574145	ba@dynsolonline.com ki@dynsolonline.com
98	Environment, Compliance & Engineering Solutions (ECES)	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Mohammad Aktaruzzaman-CEO	+8801979883650	azaman_hr@yahoo.com
99	Zass Global Limited	Fire Safety and Risk Assessment, Fire Suppression System, Fire Alarm System and Fire Doors	MD. TOWFIQUE MALEK- Managing Director	+8801822999097, +88 01977777357	info@zasstel.com
100	ADROITTECH BANGLADESH	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Engr. Monsur uz Zaman	+8801858361955, +8801625669782	adroittechbd@gmail.com



101	Fashion Accessories	Fire Doors	Muhammad Ashiqur Rahman, Chief Executive	+8801711985551, +8801713372875	padilladoors@gmail.com, tanim@rising-group.com
102	Universal Multi Engineering and Technology Company Limited (UMEC)	Fire Suppression System, Fire Alarm, Fire Doors, Hydrant & Sprinkler System, Safety Security System, CC TV & Access Control	Muhammad Mostafizur Rahman	+8801716096836, +8801924400279	mostafizur@umec-bd.com, www.umec-bd.com
103	Shams Engineering	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Engr. Md. Shamsuzzoha, Engr. Md. Shafiu Alam	+880171111236 +880177735301	zoha.lotas91@gmail.com; zoha@shamsengineeringbd.com
104	TASHA International	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	K.M. Shamsul Huq (Tareque)	+8801730704118	kmshuq@gmail.com
105	M-Tech Integrated Solutions Ltd.	Fire Safety, Fire Suppression System, HVAC Systems, Steel Structure Solutions	Md. Yousuf Ali	+8801751593339	yousuf@mtechbd.com
106	Prime Power Engineering	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Nazmul Hassan Khan	+8801816288772 +8801674792841	infoprimepowerbd@gmail.com nazmulppedbd@gmail.com
107	Excel Technologies	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	AKM Mostafizur Rahman	+8801727 369678, 01911-332222, 017070223333	exceltechbd@gmail.com exceltechbd@yahoo.com
108	Compliance BD	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Md. Al-Amin-CEO	+88029358875, 01766670693, 01911643816	alamin@compliancebd.com compliancebd01@gmail.com www.compliancebd.com
109	GREEN LIGHT	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Zahed Omar	01799626261-65	greenlightcorpo@gmail.com, Info@greenlightbd.org www.greenlightbd.org
110	Smriti Trading Corporation	Fire Alarm System and Voice Evacuation System	Md. Muhaimeen Ashraf	+8801755627982, +88029570556, +88029570561	sales@smriti.com.bd, contact@smriti.com.bd www.smriti.com.bd
111	AB Technology Corporation Ltd.	Fire Safety, Fire Suppression System, Fire Alarm System and Fire Doors	Engr. Md. Babul Akhter	01865002388/017111 17180,0447811780	akhter@anobagroup.com

**The list will be updated frequently.**



## APPENDIX B

### FIRE ALARM SYSTEM

Each submittal shall include two sets of complete plans on minimum A2 size paper with Factory Stamp & Signature and product catalog. The following items are also required (2010 NFPA72 Section 10.18.1.2)

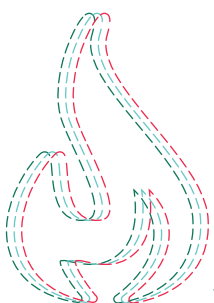
1. Factory Forwarding Letter with factory name, address and contacts.
2. The drawing's cover page shall include Factory name, address, Accord ID.
3. The drawing shall include the site plan with all necessary information if applicable.
4. The drawing shall include detail on the system- Addressable or Conventional.
5. Fire Alarm Panel detail shall be included - How many loop or zone
6. If the system is addressable, drawing shall contain the device number with loop number (eg: L1S1= Loop 1; Smoke 1); for conventional system clear indication on zones shall be outlined.
7. The Fire Alarm Design shall include a Schematic Diagram/line Diagram containing the loops start to end and also devices shall include the device number and location. (if addressable)
8. The cable for Detectors shall be minimum 2-core- 1.5 mm<sup>2</sup> certified cable for Fire Alarm System.
9. The cable for Bells and sounders shall be minimum 2-core- 2.5 mm<sup>2</sup> certified cable for Fire Alarm System.
10. Floor Height, beam depth should be mentioned on the drawing. Architectural elevation is required in case of shed building.
11. Please include a catalogue of the Fire Alarm System.
12. If the same floor is provided with sprinklers also, detectors can be eliminated.
13. Multi sensor detectors are **recommended** on the swing, cutting, iron & finishing and other areas where there is a possibility of floating fabric dust, threads and cottons etc. to avoid false alarm.
14. Beam detectors are **recommended** if the ceiling height is more than 6.00 meter from the finished floor level.
15. If the factory wants to keep the fire door open "Door Hold Open device" to be used which shall be interfaced with fire alarm system in such a way that in case of fire the door will be closed automatically getting the signal from Fire Alarm Panel. It should be clearly shown on the drawing.

**Re-Submittals:** Submittals requiring additional information will be placed "On Hold" until required information has been submitted. Plan information revisions shall be submitted with changes clouded. Changes in other documents shall be clearly identified.

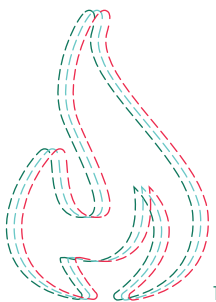
### FIRE FIGHTING SYSTEM

Each submittal shall include two sets of complete plans on minimum A2 size paper with Factory Stamp & Signature. The following items are also required:

1. Factory Forwarding Letter with factory name address and contacts.
2. The drawing's cover page shall include Factory name, address, Accord ID.
3. The drawing shall include the site plan with all necessary information.
4. The drawing shall be complete with legends, floor area and area title/name.
5. Complete data on sprinklers shall be provided like type of sprinkler, sprinkler K factor, temperature rating and type of response.
6. Complete data on stand pipes shall be included in the drawing.
7. Complete data on Fire Brigade/Siamese Connection shall be included in the drawing.
8. Riser Diagram is mandatory.
9. The pipe network shall include riser location, zone control valve, pipe diameters and dimensions.
10. The drawing shall include fire pump location and pump capacity
11. Hydraulic Calculation for the system shall be submitted for the system.
12. Top floor and Ground floor stairwells shall be covered by sprinkler. Sprinklers will not be required in floors in between.
13. All the toilets and kitchen areas shall be covered by sprinkler.
14. Any room or open space in the working floor shall be covered by sprinklers if it is not currently covered.



**Re-Submittals:** Submittals requiring additional information will be placed “On Hold” until required information has been submitted. Plan information revisions shall be submitted with changes clouded. Changes in other documents shall be clearly identified.





## APPENDIX C

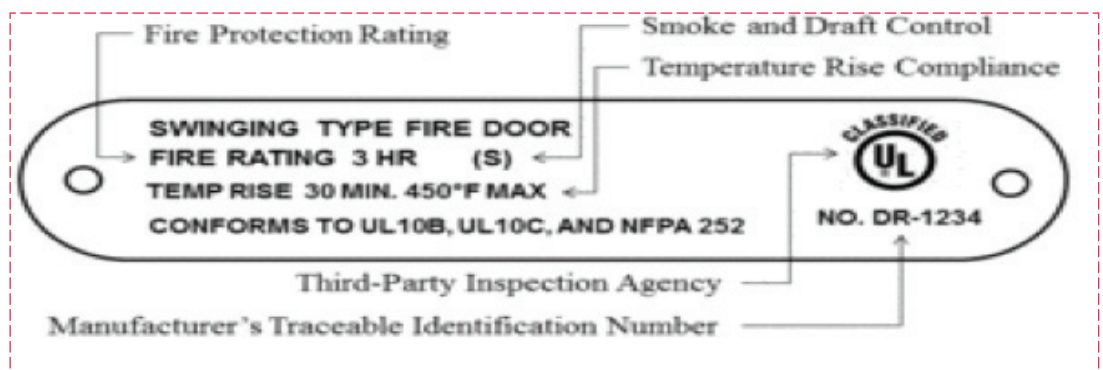
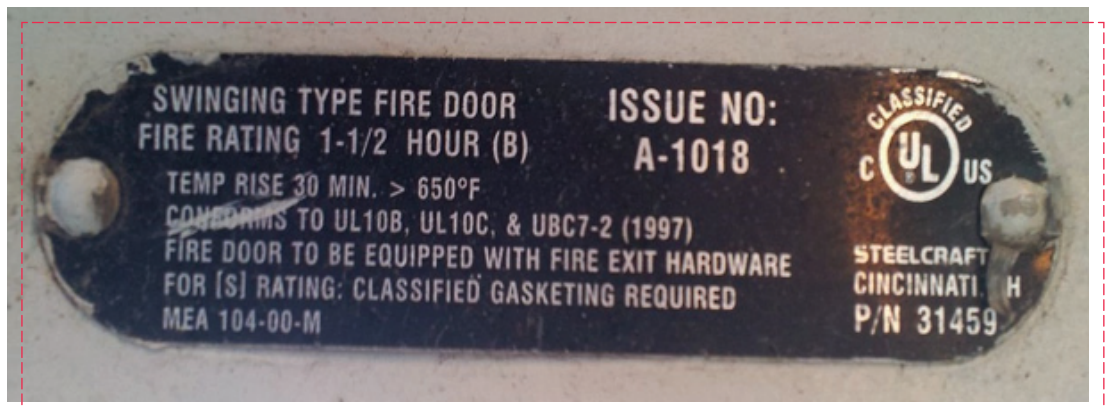
### WHAT FIRE DOORS DO?

- Fire doors save lives and property
- They are part of a building's passive fire protection system and are fundamental to most fire strategies for buildings
- They provide critical protection within a building such as escape routes (stairs and corridors) and in protecting from fire hazards in a building.

### WHAT'S IMPORTANT ABOUT FIRE DOORS?

- Doors shall be certified by UL, FM or other recognized third party certification agency. The doors must comply with the standards mentioned in the Accord standard- NFPA 252; BS 476 part 22, EN 1634-1, GB 12955-2008 etc. The specific standard shall be mentioned in the certificate provided by the certification agency and the door assembly must be manufactured in accordance with the certification agency terms.
- The fire doors and frames shall have permanent labeling with the information of the manufacturer, the certification agency and the fire rating (see example below).
- If the doors contain glass, the third party certification shall indicate the acceptable configuration.
- The door hardware will also be listed as fire rated or be tested as part of the assembly.
- All components such as the doorframe, hinges, closers, seals and glazing systems make up the fire door assembly and must be certified.

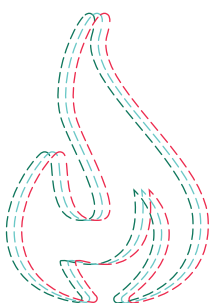
EXAMPLE OF FIRE DOOR RATING LABEL



### DO'S & DON'TS - TO STAY SAFE

#### DO

- Specify and use third-party certified fire doors and components
- Make sure you have the correct certification for the door's intended use
- Make sure the test is carried out on a complete installed assembly – the door leaf, door frame and essential hardware
- Install the door and frame as per manufacturer's instructions



### **DON'T**

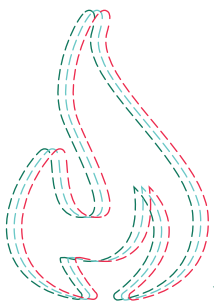
- Fit a fire door like any other door – it's not, it's an engineered safety device
- Cut vision panels and other holes on site
- Patch up a fire door
- Take risks by reducing the specification
- Disconnect a fire door closer
- Prop or wedge open a fire door

### **WHAT IS A THIRD PARTY CERTIFICATION?**

- It is the process of certifying that a manufacturer of a product has undergone an appropriate independent appraisal to confirm their compliance with the performance aspects of a specification for a particular product and its installation and maintenance.
- To achieve third party certification, a manufacturer and their product will have to undergo a rigorous audit and testing process, ensuring that they have in place documented product specifications, installation instructions, and a factory production control system, all of which integrate with an approved Quality Management Scheme.

### **REQUIRED FIRE PROTECTION RATING OF FIRE DOORS**

- Stairwells (if the building is 4 stories or greater): 1.5 hour
- Stairwells (if the building is 3 stories or less): 1 hour
- Generator Rooms: 1.5 hour
- Transformer rooms: 1.5 hour
- Warehouse and Storage rooms: 45 minutes



## ● COLOPHON

**Date:** March 2015 - Updated November 2016

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