



# 3M E-Mat Fire Protection

## Applications, Building Codes, Tested UL/Intertek Systems



Category	Application	Code	Section	Heading	Systems
Structural Steel		IBC	704	FIRE-RESISTANCE OF STRUCTURAL MEMBERS	Intertek 3MU/AF 240-02 UL BXUV.XR206
		IBC	601	FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)	
Membrane Penetration		IBC	714.3.2, Exception 4	PENETRATIONS   Fire-resistance-rated walls   Membrane penetrations   Membrane penetrations by boxes other than electrical boxes.	UL XHEZ.W-L-7168 UL XHEZ.W-L-7190 UL XHEZ.W-L-7126
Fuel Oil		IBC	1305.2	FUEL OIL PIPING AND STORAGE   FUEL OIL SYSTEM INSTALLATION   Protection of pipe, equipment and appliances.	UL HNKJ.FP-1 (single-containment)  UL HNKJ.FP-2 (double-containment)
		IBC (IFC)	403.4.8.2 (604.2.14.1)	SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY   HIGH-RISE BUILDING   Emergency System   Standby and Emergency Power   Fuel line piping protection	
		NYC MC	1305.9.3	Supplemental requirements for piping from transfer pumps to equipment or storage tanks above lowest floor.   Horizontal Offsets	
		IBC (IFC)	415.11.6.4 (415.11.6.4)	SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY   GROUPS H-1, H-2, H-3, H-4 AND H-5   Groups H-5   Piping and tubing   Installations in corridors and above other occupancies	



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Electrical Systems		IBC	412.3.7	Airport Traffic Control Towers	UL FHIT.7 UL FHIT.8 UL FHIT.9 UL FHIT.34
		IBC	909.20.6.1	Smoke Control Systems	
		IBC	913.2.2	Fire Pumps	
		IBC	2702.3	Emergency and Standby Power Syste <sup>m</sup> s	
		IBC	3007.8.1	Fire Service Access Elevators	
		IBC	3008.8.1	Occupant Evacuation Elevators	
Electrical Systems (NEC, "FHIT" references)		NEC	250.12	Grounding and Bonding   Equipment Grounding Conductor Installation	Intertek 3MU/AF 60-01 Intertek 3MU/AF 60-02 Intertek 3MU/AF 60-03 Intertek 3MU/AF 60-04 Intertek 3MU/AF 60-05 Intertek 3MU/AF 120-01
		NEC	695.6 / .14	Special Equipment   Fire Pumps   Power Wiring / Generator Control Wiring Methods	
		NEC	700.10	Special Conditions   Emergency Systems   Feeder Circuit Wiring	
		NEC	708.10	Special Conditions   Critical Operations Power Systems (COPS)   Feeder and Branch Circuit Wiring	
		NEC	760.179	Special Conditions   Fire Alarm Systems   Listing and Marking of PLFA Cable and Insulated Continuous Line-Type Fire Detectors	
		NEC	770.179	Optical Fiber Cables and Raceways   Optical Fiber Cables	
		NEC	800.179	Communication Systems   Communication Circuits   Communication Wires and Cables	

IBC references are from the 2015 edition

rev2: 28 April 2016



