

SUMMARY OF

GENERIC LETTER 86-10

SUPPLEMENT 1

FIRE TESTING RESULTS
WITH SYSTEM DESCRIPTION

OF

3M INTERAM™ E 50 SERIES FIRE WRAP

FOR

ONE & THREE HOUR EXPOSURES

FIRE TEST SUMMARY

3M INTERAM / 1 & 3 HOUR GL 86-10 Supplement 1 Fire Exposure

1 HOUR TESTING								
<u>TEST DATE</u>	<u>SYSTEM THICK. & DESIGN DESCRIPTION</u>	<u>TEST ARTICLE</u>	<u>SIZE</u>	<u>SURFACE AVG TIME/TEMP.</u>	<u>SURFACE MAX. TIME/TEMP.</u>	<u>#8 AVG TIME/TEMP.</u>	<u>#8 MAX. TIME/TEMP.</u>	<u>COMMENTS</u>
INITIAL TEMPERATURE: 74°F			AVG. TEMPERATURE ALLOWED: 324°F			MAX. TEMPERATURE ALLOWED: 399°F		
4/20/95	1.2" 4 layers E-53A	STEEL LDBK.CABLE TRAY	6" x 4"	(F) 60/262°F (R) 60/262°F	(F) 60/337°F (R) 60/338°F	60/228°F	60/282°F	
4/20/95	1.2" 3 layers E-54A	JUNCTION BOX	12x12x8	60/259°F	60/311°F	N/A	N/A	
INITIAL TEMPERATURE: 80°F			AVG. TEMPERATURE ALLOWED: 330°F			MAX. TEMPERATURE ALLOWED: 405°F		
5/17/95	1.2" 3 layers E-54A	STEEL LDBK.CABLE TRAY	24" x 4"	(F) 60/290°F (R) 60/301°F	(F) 60/389°F (R) 60/354°F	60/226°F	60/265°F	
5/17/95	1.2" 3 layers E-54A	CONDUIT	5"	60/224°F	60/251°F	60/217°F	60/244°F	
5/17/95	1.2" 3 layers E-54A	CONDUIT	1"	60/309°F	60/374°F	60/286°F	60/346°F	
5/17/95	1.2" 3 layers E-54A	AIRDROP	2"	N/A	N/A	60/242°F	60/279°F	

FIRE TEST SUMMARY 3M INTERAM: 1HR/3HR EXPOSURE

3 HOUR TESTING								
TEST DATE	SYSTEM THICK. & DESIGN DESCRIPTION	TEST ARTICLE	SIZE	SURFACE AVG TIME/TEMP.	SURFACE MAX. TIME/TEMP.	#8 AVG TIME/TEMP.	#8 MAX. TIME/TEMP.	COMMENTS
INITIAL TEMPERATURE: 64-66 ⁰ F			AVG. TEMPERATURE ALLOWED: 314-316 ⁰ F			MAX. TEMPERATURE ALLOWED: 389-391 ⁰ F		
11/28/95	2" 5 layers E-54A	AIRDROP	2"	N/A	N/A	180/294 ⁰ F	180/338 ⁰ F	
INITIAL TEMPERATURE: 60 ⁰ F			AVERAGE TEMPERATURE ALLOWED: 310 ⁰ F			MAXIMUM TEMPERATURE ALLOWED: 386 ⁰ F		
1/22/96	2" 5 layers E-54A with air space← prior to 1 st layer and after 2 nd	CONDUIT	1"	180/307 ⁰ F	180/377 ⁰ F	180/299 ⁰ F	180/346 ⁰ F	
1/22/96	2" 5 layers E-54A with air space← prior to 1 st layer and after 2 nd	CONDUIT	3"	180/237 ⁰ F	180/307 ⁰ F	180/220 ⁰ F	180/270 ⁰ F	
1/22/96	2" 5 layers E-54A with air space← prior to 1 st layer and after 2 nd	CONDUIT	5"	180/243 ⁰ F	180/307 ⁰ F	180/227 ⁰ F	180/269 ⁰ F	
1/22/96	2.4" 6 layers E-54A with air space← prior to 1 st layer and after 2 nd	JUNCTION BOX	12x12x8	180/213 ⁰ F	180/224 ⁰ F	N/A	N/A	
INITIAL TEMPERATURE: 92 ⁰ F			AVERAGE TEMPERATURE ALLOWED: 342 ⁰ F			MAXIMUM TEMPERATURE ALLOWED: 417 ⁰ F		
8/21/97	2.4" 6 layers E-54A with air space← after 1 st layer only	STEEL LDBK.CABLE TRAY	6" x 4"	(F) 180/256 ⁰ F (R) 180/264 ⁰ F	(F) 180/319 ⁰ F (R) 180/333 ⁰ F	180/247 ⁰ F	180/303 ⁰ F	
8/21/97	2.4" 6 layers E-54A with air space← after 1 st layer only	STEEL LDBK.CABLE TRAY	24" x 4"	(F) 180/271 ⁰ F (R)	(F) 180/325 ⁰ F (R) 180/315 ⁰ F	180/231 ⁰ F	180/287 ⁰ F	

← The air space is typically .4" thick and is achieved using 1"-3" wide spacers fabricated from Interam® E-54A mat applied at intervals not to exceed 15" maximum.

FIRE TEST SUMMARY 3M INTERAM: 1HR/3HR EXPOSURE

				180/269 ⁰ F				
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← The air space is typically .4" thick and is achieved using 1"-3" wide spacers fabricated from Interam® E-54A mat applied at intervals not to exceed 15" maximum.