

3M Interam Fire Test Summary

Item/size	Layers	Other info.	Fire rating or other	Test Standard	Report No.	Date	Approval/system
Beam/Column W10x49	3 E-5A3		3 hours	ASTM E119 (UL 263)	UL File R10125-6	4/15/1987	Design X204
Beam/Column W10x49	2 E-5A3		2 hours	ASTM E119 (UL 263)	UL File R10125-6	4/15/1987	Design X204
Beam/Column W10x49	3 E-5A3		3 hours	ASTM E119 (UL 263)	UL File R10125-4	10/13/1986	Design X203
Beam/Column W10x49	2 E-5A3		2 hours	ASTM E119 (UL 263)	UL File R10125-4	10/13/1986	Design X203
Beam/Column W10x49	1 E-5A3		1 hour	ASTM E119 (UL 263)	UL File R10125-4	10/13/1986	Design X203
Beam/Column W10x49	3 E-5A3		2 hours	UL 1709	UL File R10125-5	10/13/1986	Design X201
Beam/Column W10x49	2 E-5A3		1.5 hours	UL 1709	UL File R10125-5	10/13/1986	Design X201
Beams/columns	4 E-5A4 1 E-5A4		See tables See tables	ASTM E-1529 ASTM E-1529	Omega Proj. 9006-98944 Omega Proj. 9006-98944	3/19/1996	DNV HOU-96-007 DNV HOU-96-007
Pipe - 10" dia.	2 E-5A4 2 E-5A4	60 mm foamglas 40 mm foamglas	400° C. at 182 min. 400° C. at 161 min.	Jet Fire Jet Fire	SINTEF 250000.10\93.278 (test 2) SINTEF 250000.10\93.278 (test 2)	12/20/1993 12/20/1993	
Pipe - 6" dia.	1 E-54C	35 mm foamglas	160° C. at 30 min.	Jet Fire	SINTEF 250030.10/94.299	9/26/1994	
Pipe - 6" dia.	2 E-54C	60 mm foamglas	198° C. at 120 min.	Jet Fire	SINTEF 251694	12/01/1993	
Bulkhead	3 E-5A4	4.76 mm steel	165 min. (A150)	ISO 834	Omega Point 9006-101062	3/05/1997	
Cable Tray - 24" x 4"	10 E-50A	minimal fill	3 hours	UL 1724 HIFT	UL File R10125-3	12/17/1984	System 7 & 8
Cable Tray - 12" x 4"	5 E-50D		3 hours	ASTM E-119	TCT #414186-331	Apr-86	
Conduit - 5" dia.	5 E-50D		3 hours	ASTM E-119	TCT #414186-331	Apr-86	
Airdrop	5 E-50D		3 hours	ASTM E-119	TCT #414186-331	Apr-86	
Cable Tray - 18" x 6"	2 E-5A4		1 hour	ASTM E-119	TCT #414187-751	Jun-87	
Conduit - 2.5" dia.	5 E-50D	Interface to TSI	3 hours	ASTM E-119	TCT #414186-1119	Oct-86	
Conduit - 5" dia.	5 E-50A		1 hour	ASTM E-119	SwRI 01-7912(2)	Jun-85	
Conduit - 2" dia.	6 E-50A		1 hour	ASTM E-119	SwRI 01-7912(2)	Jun-85	
Cable Tray - 24" x 4"	4 E-50 A		1 hour	ASTM E-119	SwRI 01-7912(2)	Jun-85	
Conduit - 5" dia.	3 E-5A3		1 hour	ASTM E-119	TCT #414186-969	Sep-86	
Airdrop	3 E-5A4		1 hour	ASTM E-119	TCT #414186-969	Sep-86	
Cable Tray - 12" x 4"	2 E-5A4		1 hour	ASTM E-119	TCT #414186-969	Sep-86	
Junction Box	3 E-5A4		1 hour	ASTM E-119	TCT #414186-969	Sep-86	

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Pipe - 10" dia.	1 E-5A4	50 mm foamglas	95 min. to 400° C.	ASTM 1529	Omega Point 9006-99430	3/15/1996
Pipe - 10" dia.	2 E-5A4	50 mm foamglas	145 min. to 400° C.	ASTM 1529	Omega Point 9006-99430	3/15/1996
Pipe - 10" dia.	1 E-5A4	38 mm foamglas	84 min. to 400° C.	ASTM 1529	Omega Point 9006-99430	3/15/1996
Cable Tray - 12" x 4"	1 E-5A4		13 min.	ASTM 1529	Omega Point 9006-99733	3/19/1996
Cable Tray - 12" x 4"	2 E-5A4		28 min.	ASTM 1529	Omega Point 9006-99733	3/19/1996
Cable Tray - 12" x 4"	4 E-5A4		78 min.	ASTM 1529	Omega Point 9006-99733	3/19/1996
Cable Tray - 24" x 4"	2 E-5A4		28 min.	ASTM 1529	Omega Point 9006-99733	3/19/1996
Beam W14x238	1 E-5A4		passed	4.2 psi (0.29 bar) blast	WBE Proj. No. 807-001	Sep-96
Beam W14x238	1 E-5A4		passed	4.8 psi (0.33 bar) blast	WBE Proj. No. 807-001	Sep-96
Pipe - 6" dia.	2 E-5A4	60 mm foamglas	passed	0.57 bars (ave.) blast	CMR-93-F25044 (test 3)	Dec-94
Conduit - 2" dia.	2 E-5A4	50 mm foamglas	17 dB reduction ave.	500-2000 Hz	Sinus 123800-1.RO1 (System 5)	12/23/1993
Cable Tray - 24" x 6"	5 E-50D		passed 2x SSE	IEEE 344	SwRI 1208-001	Jul-86
Conduit - 2" dia.	5 E-50D		passed 2x SSE	IEEE 344	SwRI 1208-001	Jul-86
Cable Tray - 24" x 6"	4 E-50A		passed 2x SSE	IEEE 344	SwRI 8554	Jul-85
Conduit - 2" dia.	4 E-50A		passed 2x SSE	IEEE 344	SwRI 8554	Jul-85
Bulkhead	3 E-5A-4	4.5 mm steel	H150 (failure reached at 165 m ISO 834 Res. A.754(18))		Omega Point 9006-101062	Mar. 5 1997
Surface	1 E-5A3	Smoke Density	1.07 Dm ave. (non-flaming)	ASTM E662	Omega Point 15352-100517	10/10/1996
Surface	1 E-5A3	Smoke Density	17.77 Dm ave. (Flaming)	ASTM E662	Omega Point 15352-100517	10/10/1996
Surface	1 E-5A3	Toxic Gas	0 ppm of CO, HF, HCl, NOx,	BSS 7239	Omega Point 15352-100519	10/10/1996
	1 E-5A3	Toxic Gas	0 ppm SO ₂ , HCN	BSS 7239	Omega Point 15352-100519	10/10/1996
Surface	1 E-5A3	Flammability	0 ave. Flame Spread	ASTM E162	Omega Point 15352-100518	10/10/1996

Compiled 8/4/99 - RJJ