

## I 2.7 FIRE INFORMATION

### 2.7.3 Cause and Effect Matrix



<div>Cause</div> <div>Effect</div>		System Notification	Alert Systems					Lifts		Access Provision			Smoke Control			Plant Shut Down
		Signal Sent to Detection Control Panel	Sounders and Flashing strobes in fire affected apartment only	Sounders and Flashing strobes in all Ancillary Areas only	Sounders and Flashing strobes on accessible roofs and podium	Sounders and Flashing strobes in Retail Unit Activate	Sounders and Flashing strobes in Car Park Activate	Lift to return to the lowest adjacent ground floor level not affected by a fire	Lift to return to alternative designated landing (floor above exit level)	Hold open devices on escape routes - release	Electronically operated doors to fail safe open	Other Access control provisions to open/deactivate	Smoke Damper Activation (locations as identified in the fire strategy)	AOV on fire floor activates	AOV at head of stair activates	Non-Life Safety Plant to Shut Down
System Type/Location	Activation Type															
Category LD1 (Apartment) BS 5839-6	Any		X													
Category L2 (Ancillary Areas) BS 5839-1	Any	X		X	X					X	X	X	X			X
Category L5 (Common Corridor) BS 5839-1	Smoke Detector	X			X					X	X	X	X	X	X	X
Category L5 (Stair) BS 5839-1	Smoke Detector	X			X					X	X	X	X		X	X
Category L5 (Lift Shaft) BS 5839-1	Smoke Detector	X			X			X		X	X	X	X		X	X
Category L5 (Ground Floor lobby/corridor outside lift entrance, Blocks A, B, D and E) BS 5839-1	Smoke Detector	X			X				X	X	X	X	X	X	X	X
Sprinkler Activation (Anywhere)	Sprinkler head/flow switch	X			X											
Category LD2 (Townhouses - Blocks C & F only) BS 5839-6	Any		X													
Category M (Car Park) BS 5839-1	Manual Call Point	X			X		X			X	X	X				
Category M (Commerical) BS 5839-1	Manual Call Point	X				X				X	X	X				

Note 1: This is a summary C&E of the main system types/locations to assist the fire alarm sub-contractor in developing the detailed Cause and effect for each block as part of their design. This C&E should not be used for programming purposes and is only intended as a guide for the specialist subcontractor to develop their own detailed C&E matrix's.

