

FIRE ENGINEERING CHECKLIST

PROJECT:

COMPLETED BY:

DATE:

ELECTRICAL PACKAGE

- | | Yes | No | N/A |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----|
| 1. Has a secondary power supply been provided to each item of life safety equipment? | Yes | No | N/A |
| 2. Is the secondary supply compliant with the relevant standards? | Yes | No | N/A |
| 3. Are both primary & secondary supplies sufficient to meet the electrical demand of all life safety equipment which is required to operate simultaneously? | Yes | No | N/A |
| 4. Are diverse routes being achieved for each item of life safety equipment? | Yes | No | N/A |
| 5. Have fire rated cables been specified for primary & secondary supplies to life safety equipment? | Yes | No | N/A |
| 6. Has LD1 detection been included for apartments that require sprinkler protection? | Yes | No | N/A |
| 7. Is fire detection to ancillary areas in line with fire strategy? | Yes | No | N/A |
| 8. Has the secondary supply strategy been discussed & agreed with the approved Inspector? | Yes | No | N/A |
| 9. Has consideration been given to installation of a supplementary Evacuation Alert System? | Yes | No | N/A |
| 10. Has a cause & effect been produced to reflect requirements set out within the fire strategy? | Yes | No | N/A |
| 11. Within LD1 apartments, has smoke detection been designed to all services cupboards & any storage cuboards greater than 1m ² ? | Yes | No | N/A |
| 12. Has void detection been designed within voids >800mm? | Yes | No | N/A |
| 13. Has a maintenance bypass switch been specified for each ATS? | Yes | No | N/A |
| 14. Have sufficient Interfaces been allowed for throughout for items such as lift, BMS, AOV, Access Control? | Yes | No | N/A |
| 15. When sizing primary & secondary supplies to commercial sprinkler pumps, has locked rotor current been considered? | Yes | No | N/A |

NOTES

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MECHANICAL PACKAGE

1.	Is there a requirement fire rated duct-work or durasteel anywhere within the building, has this been accounted for?	Yes	No	N/A
2.	Have fire collars been included on vertical & horizontal SVP's & RWP's where pipes penetrate fire barriers?	Yes	No	N/A
3.	Have fire collars been included on ductwork within apartments where ducts penetrate fire barriers?	Yes	No	N/A
4.	Has the volume of water required for residential sprinklers been accommodated within the calculation for the BCWS tank & pumps?	Yes	No	N/A
5.	Car park ventilation can be natural, mech or hybrid. Has CFD been carried out by an approved Assessor to demonstrate efficiency and building control compliance?	Yes	No	N/A
6.	Is it a requirement for the car park smoke ventilation system to supplement car park CO ventilation also?	Yes	No	N/A
7.	Has the ventilation requirements to fire protected lobbies been accommodated?	Yes	No	N/A
8.	Has the ventilation requirements to bin stores been accommodated?	Yes	No	N/A
9.	Is the corridor smoke extract system also required to provide environmental ventilation?	Yes	No	N/A
10.	Has CFD been carried out for mechanically smoke vented areas?	Yes	No	N/A
11.	Are fire dampers specified & have they been located on the ventilation drawings as per fire strategy?	Yes	No	N/A

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SPRINKLERS PACKAGE

1.	Is there a requirement for sprinklers to corridors & ancillary areas?	Yes	No	N/A
2.	Do you have a minimum of 150mm clear void within the apartment to accommodate sprinkler heads?	Yes	No	N/A
3.	Is LPCB certification required for the sprinkler installation?	Yes	No	N/A
4.	Have dry risers been provided with a test valve and an automatic air vent at roof level?	Yes	No	N/A
5.	Do lateral dry riser pipe runs include a fall to allow draining of test water?	Yes	No	N/A
6.	Does your building have a requirement for commercial sprinkler system?	Yes	No	N/A
7.	Has space been allocated for a commercial sprinkler tank?	Yes	No	N/A

BUILDERS PACKAGE

1.	Has an allowance been made for fire rated connections through external walls to the facade?	Yes	No	N/A
2.	Are fire fighting shafts clear of MEP risers & distribution?	Yes	No	N/A
3.	Has the dry riser location been agreed & is compliant with fire brigade setting out requirements?	Yes	No	N/A
4.	In naturally vented car parks, has the size & location of openings been agreed with fire engineer & architect?	Yes	No	N/A
5.	Do wall build ups comply the the minimum fire rating as set out within fire strategy?	Yes	No	N/A
6.	Is the smoke ventilation strategy to the upper floors designed in line with the requirements set out in the fire strategy?	Yes	No	N/A
7.	Have appropriate measures been taken to avoid flooding of fire-lift pits?	Yes	No	N/A

NOTES

PLEASE NOTE: EDC takes no liability for any company using this risk assessment template.

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