FIRE ENGINEERING CHECKLIST

EDC
PROGRESSIVE ENGINEERING

PROJECT: **COMPLETED BY:** **DATE:**

ELECTRICAL PACKAGE

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 sufficent 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 sufficent 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

PLEASE NOTE: *EDC takes no liability for any company using this risk assessment template which leads to an enforcement action being taken as a result of significant fire safety deficiencies found during an audit.*

FOR MORE INFO CONTACT:

Cork Office
Conor O'Driscoll
codriscoll@edcengineers.com
+353 (0) 21 428 0476

Dublin Office
Scott Somers
ssomers@edcengineers.com
+353 (0) 15 313 693

London Office
Robert Higgins
rhiggins@edcengineers.com
+44 (0) 203 004 0062

www.edcengineers.com
info@edcengineers.com

FIRE ENGINEERING CHECKLIST

EDC
PROGRESSIVE ENGINEERING

PROJECT: **COMPLETED BY:** **DATE:**

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 residental sprinklers been accommodated within the calculation for the BCWS tank & pumps? ☐ Yes ☐ No ☐ N/A
5. Car park ventilation can be natural, mech or hydbrid. Has CFD been carried out by approved assessor to demonstrate efficacy 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

NOTES

PLEASE NOTE: *EDC takes no liability for any company using this risk assessment template which leads to an enforcement action being taken as a result of significant fire safety deficiencies found during an audit.*

FOR MORE INFO CONTACT:

Cork Office
Conor O'Driscoll
codriscoll@edcengineers.com
+353 (0) 21 428 0476

Dublin Office
Scott Somers
ssomers@edcengineers.com
+353 (0) 15 313 693

London Office
Robert Higgins
rhiggins@edcengineers.com
+44 (0) 203 004 0062

www.edcengineers.com
info@edcengineers.com

FIRE ENGINEERING CHECKLIST

EDC
PROGRESSIVE ENGINEERING

PROJECT: **COMPLETED BY:** **DATE:**

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 which leads to an enforcement action being taken as a result of significant fire safety deficiencies found during an audit.*

FOR MORE INFO CONTACT:

Cork Office
Conor O'Driscoll
codriscoll@edcengineers.com
+353 (0) 21 428 0476

Dublin Office
Scott Somers
ssomers@edcengineers.com
+353 (0) 15 313 693

London Office
Robert Higgins
rhiggins@edcengineers.com
+44 (0) 203 004 0062

www.edcengineers.com
info@edcengineers.com