

JV TIERNEY & CO

MECHANICAL ELECTRICAL & SUSTAINABLE ENGINEERS

EXTERNAL PUBLIC LIGHTING REPORT

RESIDENTIAL APARTMENTS
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MOU-JVT-ZZ-ZZ-RP-E-0001 - EXTERNAL PUBLIC LIGHTING REPORT

Description	Rev.	Date	Signed by:
PLANNING	P01_3	23/09/2024	

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1. Lighting Design Narrative

The proposed development contains an apartment block with pedestrian pathways and on-site parking. The residential lighting design is based on Illuminance calculations and shall achieve P4 Class lighting in accordance with BS 5489-1:2013, calculated in accordance with IS EN 13201-3:2015. The two disabled parking spaces and primary disabled access route to the building shall have a minimum lux level of 20 lux, in accordance with TGD Part M.

JV Tierney has designed the lighting installation which will fully comply with the Fingal Public Lighting specification. As per the requirements, cabling will be in NYCY to DIN VDE 0276603 m(0.61kV) suitably sized as per Fingal County Council's public specification. See Appendix A showing lighting levels and infrastructure across the site.

Ducting on the site will be single walled red HDPE with 107mm O.D. and wall thickness of 5mm with Public Lighting stamped at 1m intervals and lettering on the ducting should be 9mm high. All ducting works will comply with the ETCI requirements. Access chambers will be provided at all access points for road crossings. They will be provided in Group 2 areas suitable for loading class B125 i.e. Footways, pedestrian areas. They will be "ej" manufactured FJ 60/45 to EN124, loading class B125, suitable resistant to intrusion and be of at least 775mm x 626mm square as per the requirement.

Columns shall be of the same type throughout the development and comply with B.S 4360 Grade 43C, B.S 5649 and galvanized to BS EN1461. They will be anti-vandal type columns due to the assessed site requirements and will all have anti rotational devices installed.

LED lighting has been chosen as they comply with all EN standards and all luminaires shall be mounted on 6 metre columns in line with Fingal's public lighting specification.

Considering the amount of lighting fixtures, several micro lighting pillars are required. Their locations are indicated below in Appendix A.

