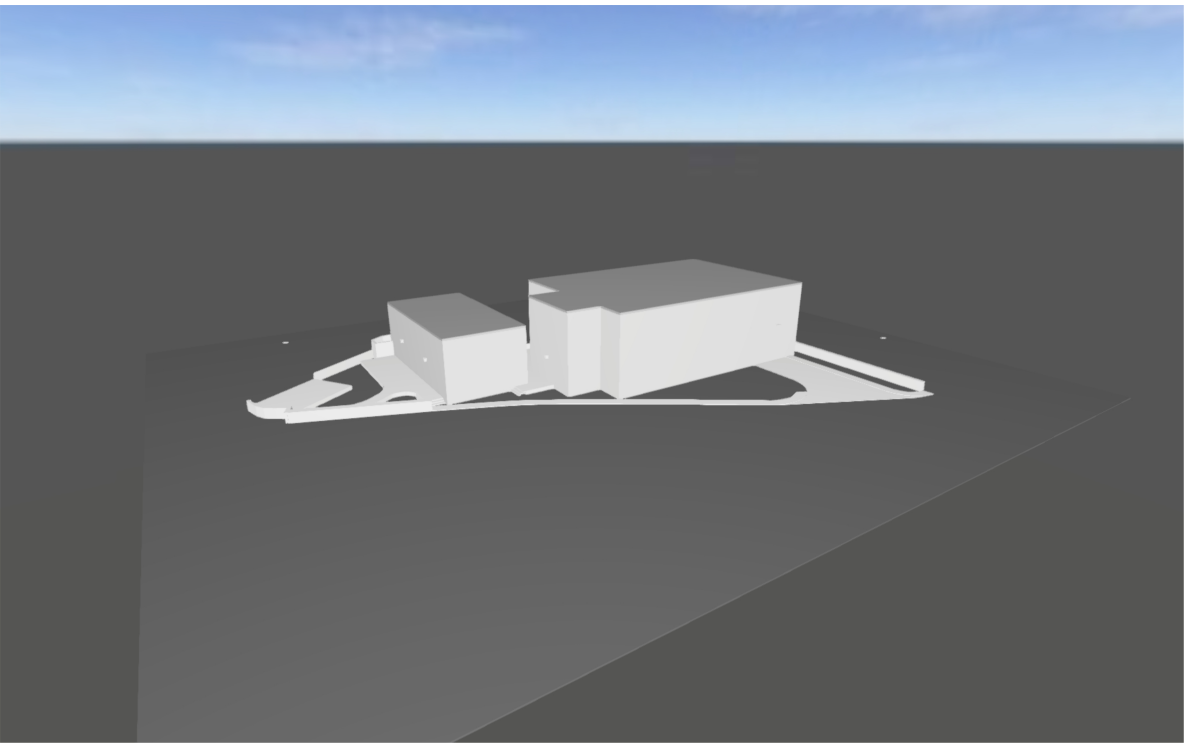
Date 03/04/2024



577649-Brymbo Methodist Church & Engedi Chapel

Object
High Street, Brymbo,
Wrexham, LL11

Created with DIALux

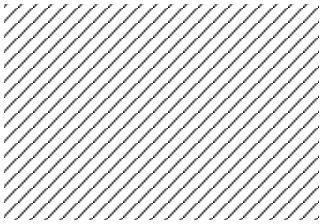
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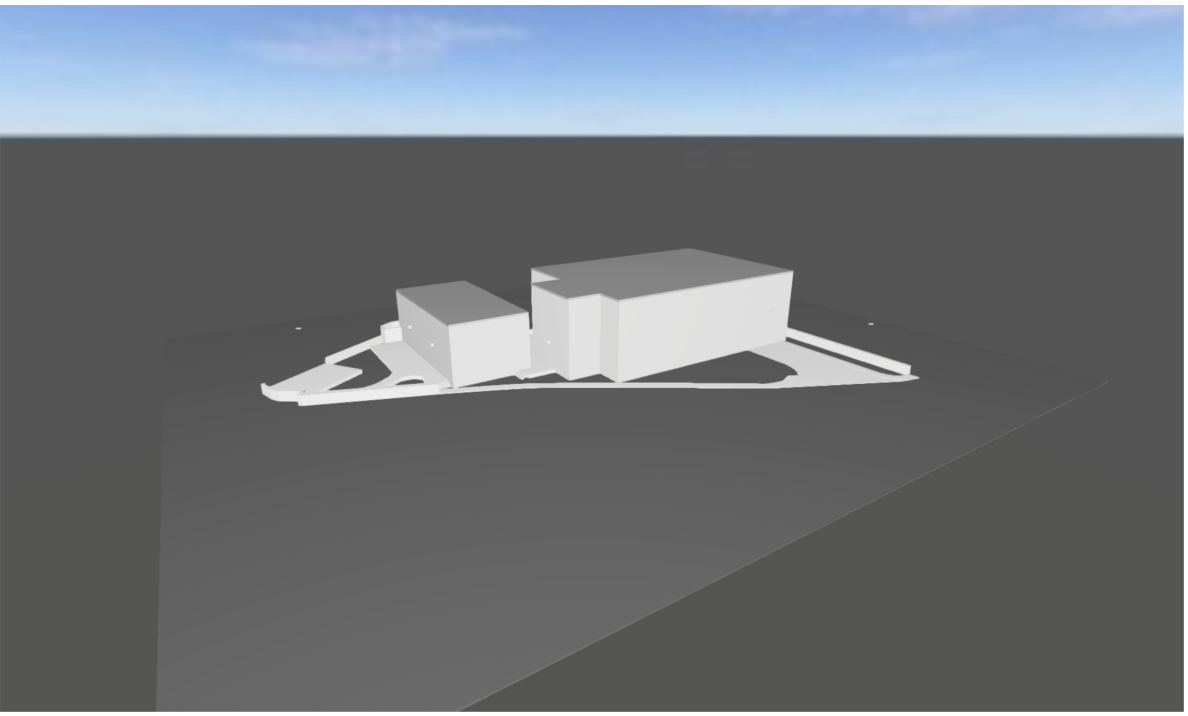
Contacts



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Merse Road, Moons Moat
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T 01527 583299
ldsouthern@thorlux.co.uk



Description

Brymbo Methodist Church & Engedi Chapel

Sample calculations are based on the information provided

External Scheme

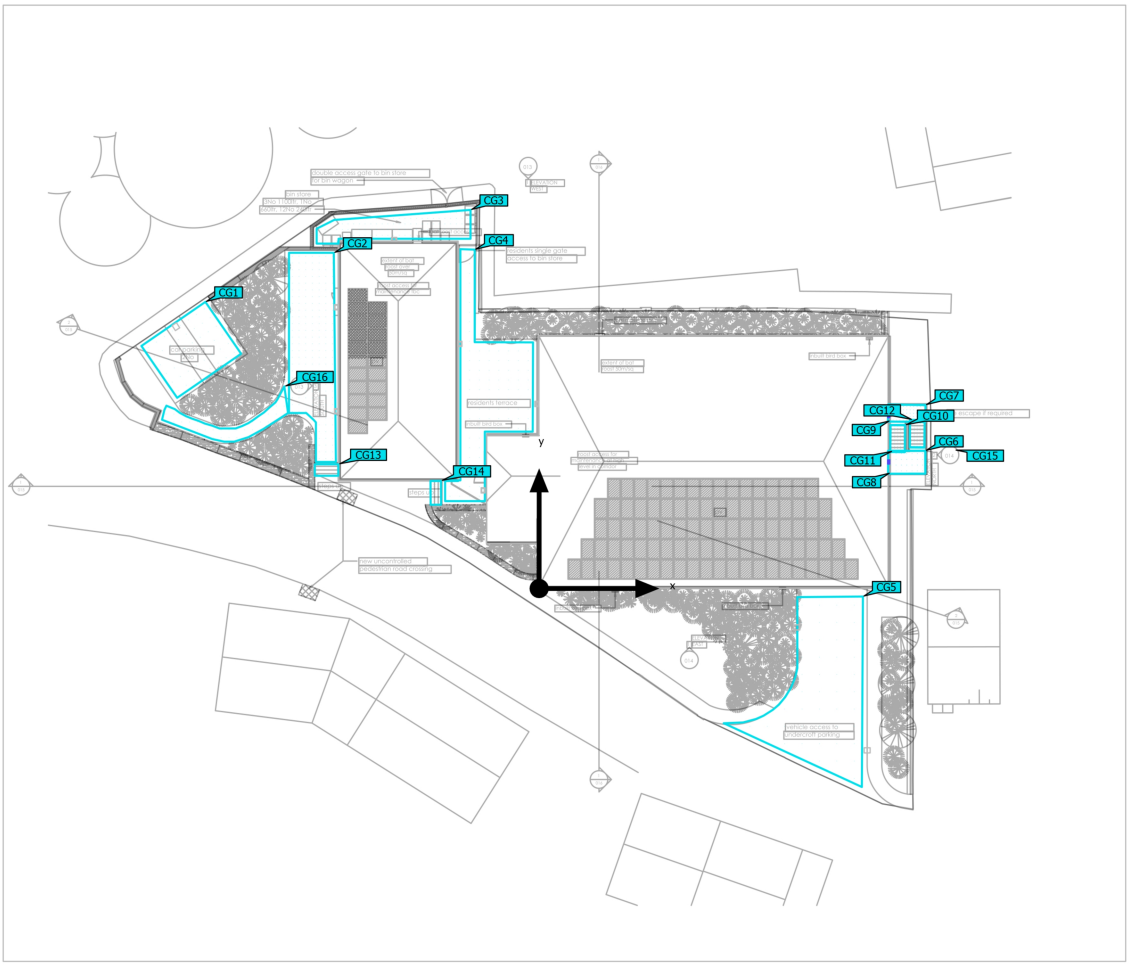
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Site 1 (Emergency light scene)

Calculation objects



Site 1 (Emergency light scene)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Carpark Perpendicular illuminance Height: 0.400 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG1
SouthElevation Perpendicular illuminance Height: 0.400 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG2
Bin Store Perpendicular illuminance Height: 0.000 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG3
Residents Terrace Perpendicular illuminance Height: 0.400 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG4
Vehicle Access Perpendicular illuminance Height: 0.050 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG5
StairsH Perpendicular illuminance Height: 5.948 m	8.79 lx	2.10 lx	18.5 lx	0.24	0.11	CG6
StairsF Perpendicular illuminance Height: 4.482 m	11.9 lx	2.18 lx	28.2 lx	0.18	0.077	CG7
StairsD Perpendicular illuminance Height: 2.988 m	14.1 lx	4.04 lx	30.7 lx	0.29	0.13	CG8
StairsB Perpendicular illuminance Height: 1.494 m	14.1 lx	4.82 lx	26.4 lx	0.34	0.18	CG9
StairsA Perpendicular illuminance Height: 0.830 m	14.0 lx	9.38 lx	23.2 lx	0.67	0.40	CG10
StairsE Perpendicular illuminance Height: 3.846 m	11.1 lx	5.89 lx	24.9 lx	0.53	0.24	CG11

Site 1 (Emergency light scene)

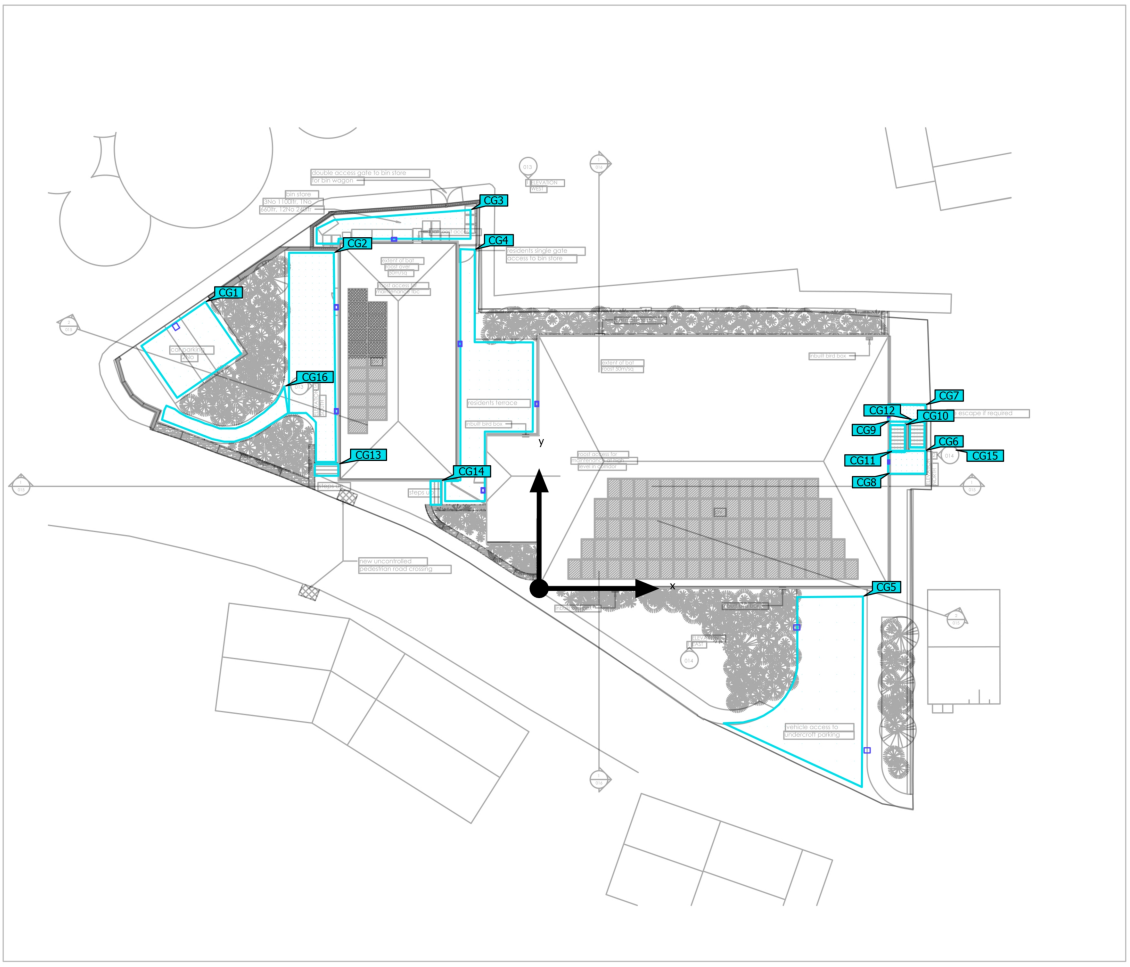
Calculation objects

StairsC Perpendicular illuminance Height: 2.234 m	5.35 lx	3.60 lx	8.39 lx	0.67	0.43	CG12
Steps Perpendicular illuminance Height: 0.277 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG13
Steps Perpendicular illuminance Height: 0.320 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG14
StairsG Perpendicular illuminance Height: 5.277 m	2.02 lx	0.76 lx	5.29 lx	0.38	0.14	CG15
Path Perpendicular illuminance Height: 0.400 m	0.00 lx	0.00 lx	0.00 lx	-	-	CG16

Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Site 1 (Light scene 1)

Calculation objects



Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Carpark Perpendicular illuminance Height: 0.400 m	19.0 lx	13.7 lx	25.9 lx	0.72	0.53	CG1
SouthElevation Perpendicular illuminance Height: 0.400 m	29.4 lx	10.2 lx	59.4 lx	0.35	0.17	CG2
Bin Store Perpendicular illuminance Height: 0.000 m	22.0 lx	15.6 lx	28.0 lx	0.71	0.56	CG3
Residents Terrace Perpendicular illuminance Height: 0.400 m	27.9 lx	9.87 lx	40.5 lx	0.35	0.24	CG4
Vehicle Access Perpendicular illuminance Height: 0.050 m	20.8 lx	5.89 lx	28.8 lx	0.28	0.20	CG5
StairsH Perpendicular illuminance Height: 5.948 m	10.00 lx	2.48 lx	19.9 lx	0.25	0.12	CG6
StairsF Perpendicular illuminance Height: 4.482 m	13.6 lx	2.48 lx	30.5 lx	0.18	0.081	CG7
StairsD Perpendicular illuminance Height: 2.988 m	13.7 lx	3.46 lx	30.4 lx	0.25	0.11	CG8
StairsB Perpendicular illuminance Height: 1.494 m	11.7 lx	2.99 lx	25.7 lx	0.26	0.12	CG9
StairsA Perpendicular illuminance Height: 0.830 m	9.51 lx	2.14 lx	17.7 lx	0.23	0.12	CG10
StairsE Perpendicular illuminance Height: 3.846 m	11.9 lx	5.85 lx	25.3 lx	0.49	0.23	CG11

Site 1 (Light scene 1)

Calculation objects

StairsC Perpendicular illuminance Height: 2.234 m	4.15 lx	1.99 lx	8.20 lx	0.48	0.24	CG12
Steps Perpendicular illuminance Height: 0.277 m	5.22 lx	3.39 lx	8.36 lx	0.65	0.41	CG13
Steps Perpendicular illuminance Height: 0.320 m	2.04 lx	0.33 lx	2.96 lx	0.16	0.11	CG14
StairsG Perpendicular illuminance Height: 5.277 m	3.16 lx	1.09 lx	7.83 lx	0.34	0.14	CG15
Path Perpendicular illuminance Height: 0.400 m	8.94 lx	6.39 lx	12.4 lx	0.71	0.52	CG16

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))