



London Plan Design Stage BRUKL Reports
Project: IMRI - Great Ormond Street Hospital
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Building Regulations: L2B 2013

BRUKL/SBEM calculations rely on TER as part of Building Regulations Part L2A to set the notional building using National Calculation Methodology (NCM) values however this property is being calculated as part of L2B and accredited BRUKL/SBEM software cannot automatically provide for Part L2B building regulations. We therefore have to create a 'Baseline' value based on L2B building regulation values which will create the BER value so the TER value can be substituted. Hence this is shown in the first report (Baseline) as the BER value. This value should be taken as the TER value for the rest of the calculations.

The values used to create the BER value (to replace the TER value) are exactly the same as L2B the only addition is the use (change) of the air pressure test for the notional building which has been set at 3.0 as per NCM guidance. Similarly NCM values have been used for any specifications not present within L2B.

All other values used are as per L2B – these have been made to ensure that the building complies with Part L2B, to the extent that such improvements are technically, functionally, and economically feasible, specifically the boiler efficiency of the current boiler used by GOSH.

Values from BRUKL Reports

Area	880.70	m ²
London Plan Target	40.00	%
Baseline: Part L 2013 Compliance	145.60	kg/Co2/m ²
After energy demand reduction (Be Lean)	114.70	kg/Co2/m ²
After heat network / CHP (Be Clean)	100.90	kg/Co2/m ²
After renewable energy (Be Green)	73.50	kg/Co2/m ²



SBEM



Non Domestic: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for non-domestic buildings

	Carbon dioxide emissions for non-domestic buildings (Tonnes CO ₂ per annum)	
	Regulated	Unregulated
Baseline: Part L 2013 of the Building Regulations Compliant Development	128.23	
After energy demand reduction (Be Lean)	101.02	
After heat network / CHP (Be Clean)	88.86	
After renewable energy (Be Green)	64.73	





Non Domestic: Regulated carbon dioxide savings from each stage of the Energy Hierarchy for non-domestic buildings

	Regulated non-domestic carbon dioxide savings	
	(Tonnes CO2 per annum)	(%)
Savings from energy demand reduction (Be Lean)	27.21	21.22
Savings from heat network / CHP (Be Clean)	12.15	9.48
Savings from renewable energy (Be Green)	24.13	18.82
Total Cumulative Savings	63.50	49.52

