

IES <Virtual Environment> 6.2

Criterion 3 Benchmark Data for DSM Software

The three Criterion 3 Benchmark Models outlined in the “NCM Modelling Guide (for buildings other than dwellings in England and Wales) 2010 Edition” were created and analysed using <Virtual Environment> 6.2. The aggregated solar gains were extracted and are used to form the Benchmark Solar Gain levels within a DSM Criterion 3 analysis. Details of the three Benchmark cases for each of the CIBSE Locations can be found in the table below.

Location	Bench 1 per m facade (kWh/m)	Bench 2 per m ² roof (kWh/m ²)	Bench 3 per m ² roof (kWh/m ²)
Belfast	228.711	30.276	43.783
Birmingham	235.267	31.234	45.397
Cardiff	241.844	34.013	48.938
Edinburgh	224.400	28.745	41.530
Glasgow	220.011	29.951	43.298
Leeds	238.956	30.047	43.561
London	249.333	32.324	47.035
Manchester	231.200	30.814	44.678
Newcastle	217.256	29.241	42.510
Norwich	257.044	33.008	47.636
Nottingham	253.789	32.515	47.215
Plymouth	246.578	33.195	47.893
Southampton	237.622	32.564	47.641
Swindon	253.378	32.997	47.774