

Property Details			
Dwelling Type	Detached house	Type Of BER Rating	New Dwelling - Provisional
Address line 1	Clonlea Lodge	Year of Construction	2016
Address line 2		Date of Assessment	01/03/2016
Address line 3		Date of Plans	01/12/2015
County	Dublin 16	Planning Reference	
Post Code		Building Regulations	2011 TGD L
Has a rating been previously submitted?	No	Is MPRN shared with another dwelling?	No
BER Number		MPRN No.	
Purpose of rating	New dwelling for owner occupation		
Comment			
Client Name	Anne-Marie McCullagh	Client Phone	
Address line 1	Clonlea Lodge	Client Email	
Address line 2		Assessor Name	Mark A. Shirley
Address line 3		Assessor Reg No.	100356
County	Dublin 16	Developer Name	
Post Code		Development Name	
DIMENSION DETAILS			
	Area [m ²]	Height [m]	Volume [m ³]
Ground Floor	90.40	2.55	230.52
First Floor	64.39	2.70	173.85
Second Floor	0.00	0.00	0.00
Third and other floors	0.00	0.00	0.00
Room in roof			0.00
Total Floor Area	154.79		404.37
Living Area [m ²]	16.10	Living area percentage [%]	10.40
No of Storeys	2		

VENTILATION DETAILS

	Number		
Chimneys	0	Has a permeability test been carried out?	Yes
Open Flues	1	Result of air permeability test in ac/h	0.150
Fans & Vents	0	Is there a suspended wooden ground floor?	
Number of flueless combustion room heaters	0	Percentage windows/doors draughtstripped [%]	
Is there a draught lobby on main entrance?	No	Number of sides sheltered	1
Ventilation method	Balanced whole-house mechanical ventilation with heat recovery		
Specific fan power [W/(L/s)]	1.000		
Heat exchanger efficiency [%]	85.000		
Mechanical Ventilation Manufacturer	Make & Model		
Mechanical Ventilation Model Name	To Be Confirmed		
How many wetrooms (incl. kitchen)? Is the vent. ducting flexible/rigid/both?	1 + 4		

BUILDING ELEMENTS - Floor Details

Type	Description	U-Value [W/m²K]	Area [m²]	Underfloor heating
Ground Floor - Solid	Solid Ground Floor	0.150	90.400	Yes

BUILDING ELEMENTS - Roof Details

Type	Description	U-Value [W/m²K]	Area [m²]
Pitched Roof – Insulated on Ceiling		0.130	64.390
Flat Roof		0.200	26.010

BUILDING ELEMENTS - Wall Details

Type	Description	U-Value [W/m²K]	Area [m²]
300mm Filled Cavity		0.200	151.980

BUILDING ELEMENTS - Door Details

Description	Number of Doors	U-Value [W/m²K]	Area [m²]
Front Door	1	3.000	2.130

BUILDING ELEMENTS - Window Details

Glazing type	User defined u-value	U-Value [W/m²K]	Area [m²]
Triple-glazed, air filled (low-E, en = 0.15, hard coat)	Yes	1.400	10.360
Triple-glazed, air filled (low-E, en = 0.15, hard coat)	Yes	1.400	14.010
Triple-glazed, air filled (low-E, en = 0.15, hard coat)	Yes	1.400	5.460
Triple-glazed, air filled (low-E, en = 0.15, hard coat)	Yes	1.400	8.720

OTHER DETAILS

Thermal bridging factor [W/m²k]	0.0800	Thermal mass category of dwelling	Medium
Low Energy Lighting [%]	100		

HEATING SYSTEM - Solar Water Heating

Solar Water Heating Present?	Yes	Aperture area of solar collector [m²]	2.791
Type, manufacturer, model	Make & Model, To Be Confirmed		

Zero loss collector efficiency, η_0	0.734	Collector heat loss coefficient, a_1 [W/m ² K]	1.529
Annual Solar Radiation [kWh/m ²] (Refer to Appendix H in DEAP)	1074	Overshading factor	1.000
Dedicated storage volume [Litres]	160	Combined Cylinder	Yes
Solar fraction [%]	42.76		
HEATING SYSTEM - Hot Water System			
Distribution Losses	Yes	Combi boiler present?	No
Supplementary electric water heating	No	Water Storage Volume [L]	300
Hot water storage manufacturer and model name	Make & Model To Be Confirmed	Declared loss factor [kWh/d]	2.000
Temperature factor unadjusted (table 2 in DEAP)	0.60	Temperature factor multiplier (table 2 in DEAP)	0.90
Primary Circuit loss type	Boiler with insulated primary pipework and with cylinder thermostat		
Is hot water storage indoors or in group heating system	Yes		

HEATING SYSTEM – Dist. system losses and gains (Table 4 in DEAP)					
Temperature adjustment [°C]	0.000	Control Category	3	Responsiveness category	1
Central heating pumps	1	Oil Boiler Pump	0	Oil boiler pump inside dwelling	No
Gas boiler flue fan	1	Warm air heating or fan coil radiators present			No
HEATING SYSTEM – Energy Requirements (Individual)					
Main space heating system efficiency [%]	90.50	Space heating efficiency adjustment factor	1.0000	Main space heating fuel	Mains Gas
Main water heating system efficiency [%]	90.50	Water heating efficiency adjustment factor	1.0000	Main water heating fuel	Mains Gas
Secondary heating system efficiency [%]	70.00	Fraction of heating from secondary heating system	0.10	Secondary space heating system fuel	Manufactured Smokeless Fuel
Fraction of main space and water heat from CHP	0.00	Electrical efficiency of CHP	0.00	Heat efficiency of CHP	0.00
CHP Fuel type	None				

SUMMARY FOR PART L CONFORMANCE (Applies to TGD L 2008/2011 for new dwellings only)					
BER Number			Building Regulations	2011 TGD L	
BER Result	A3		Energy Value kWh/m²/yr	57.59	
CO2 emissions [kg/m²/yr]	11.57		Total compliance with Part L in DEAP?	Pass	
EPC	0.384		EPC Pass/Fail	Pass	
CPC	0.368		CPC Pass/Fail	Pass	
PART L CONFORMANCE - Fabric					
Conformity with Maximum avg U-value requirements	U-value [W/m²K]	Pass / Fail	Conformity with Maximum U-value requirements	U-Value [W/m²K]	Pass / Fail
Pitched roof insulated on ceiling	0.13	Pass	Roofs	0.20	Pass
Pitched roof insulated on slope	0.00	Pass	Walls	0.20	Pass
Flat Roof	0.20	Pass	Floors	0.15	Pass
Floors with no underfloor heat	0.00	Pass	External doors / windows / rooflights	3.00	Pass
Floors with underfloor heat	0.15	Pass			
Walls	0.20	Pass			
Percentage of opening areas [%]	26.3	Pass			
Average U value of openings	1.48				
Permeability test carried out and meets guidelines in TGD L					
PART L CONFORMANCE – Renewables (individual heating system)					
Type of renewable			Total contribution [kWh/y]	Part L renewable contribution [kWh/m²/y]	
Solar water heating system			1260.45	8.14	
Heat pump as main space heating system			0.00	0.00	
Heat pump as secondary space heating system			0.00	0.00	
Heat pump as main water heating system			0.00	0.00	
Wood/Biomass heater as main space heating system			0.00	0.00	
Wood/Biomass heater as secondary heating system			0.00	0.00	
Wood/Biomass heater as main water heating system			0.00	0.00	
Contribution from CHP			0.00	0.00	
Solar PV			429.60	2.78	
			0.00	0.00	
			0.00	0.00	
Total thermal			1690.05	10.92	
Total electrical			0.00	0.00	
Total thermal equivalent			1690.05	10.92	
Does total thermal equivalent meet part L requirement?			Pass		