

Property Details			
Dwelling Type	Detached House	Type of BER Rating	New Dwelling - Provisional
Address Line 1	Sample House	Year of Construction	2017
Address Line 2	New Street	Date of Assessment	01/01/2017
Address Line 3	Tullow	Date of Plans	01/01/2017
County	Carlow	Planning Reference	
Postcode		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	Design stage only		
Client Name	A.N. Other	Client Phone	
Address Line 1	Sample House	Client Email	
Address Line 2	New Street	Assessor Name	
Address Line 3	Tullow	Assessor Reg No.	
County	Carlow	Developer Name	
Postcode		Development Name	
DIMENSION DETAILS			
	Area (m²)	Height (m)	Volume (m³)
Ground Floor	137.00	2.90	783.00
First Floor	122.00	3.20	
Second Floor	0.00	0.00	
Third & other floors	0.00	0.00	
Room in roof	0.00	0.00	
Total Floor Area	259.00		783.00
Living Area (m²)	35.60	Living Area Percentage %	13.75
Number 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	0.25	
Fans & Vents	6	Is there a suspended wooden ground floor?	No	
Number of flueless combustion room heaters	0	Percentage windows/doors draughtstripped [%]	100	
Is there a draught lobby on main entrance?	No	Number of sides sheltered	2	
Ventilation method	Natural Ventilation			
Specific fan power [W/(L/s)]	Not applicable			
Heat exchanger efficiency [%]	Not applicable			
Mechanical Ventilation Manufacturer	Not applicable			
Mechanical Ventilation Model Name	Not applicable			
How many wetrooms (incl. kitchen)? Is the vent. ducting flexible/rigid/both?	5 (incl kitchen area)			
BUILDING ELEMENTS – Floor Details				
Type	Description	U-Value [W/m ² K]	Area [m ²]	Underfloor heating
Ground Floor - Solid	150mm PIR Insulation	0.159	137.32	No
BUILDING ELEMENTS – Roof Details				
Type	Description	U-Value [W/m ² K]	Area [m ²]	
Pitched Roof – Insulated on Ceiling	350mm Mineral Wool Insulation	0.130	141.87	
BUILDING ELEMENTS – Wall Details				
Type	Description	U-Value [W/m ² K]	Area [m ²]	
Block with Cavity	350mm Twin Block with Cavity with 150mm full fill blow bead insulation and 62.5mm Insulated Board	0.155	218.45	
BUILDING ELEMENTS – Door Details				
Description	Number of Doors	U-Value [W/m ² K]	Area [m ²]	
Front	1	2.100	3.78	
BUILDING ELEMENTS – Window Details				
Glazing type	User defined u-value	U-Value [W/m ² K]	Area [m ²]	
Double Glazed – Efficient Rated	No	1.2	53.70	
OTHER DETAILS				
Thermal bridging factor [W/m²k]	0.08	Thermal mass category of dwelling	Medium	
Low Energy Lighting [%]	100			

HEATING SYSTEM – Solar Water Heating					
Solar Water Heating Present?	No	Aperture area of solar collector [m ²]	n/a		
Type, manufacturer, model	n/a	Collector heat loss coefficient, a1 [W/m ² K]	n/a		
Zero loss collector efficiency, η_0	n/a	Overshading factor	n/a		
Annual Solar Radiation [kWh/m ²] (Refer to Appendix H in DEAP)	n/a	Combined Cylinder	n/a		
Dedicated storage volume [Litres]	n/a				
Solar fraction [%]	0				
HEATING SYSTEM – Hot Water Heating					
Distribution Losses	Yes	Combi boiler present?	No		
Supplementary electric water heating	No	Water Storage Volume [L]	200		
Hot water storage manufacturer and model name	n/a	Declared loss factor [kWh/d]	2		
Temperature factor unadjusted (table 2 in DEAP)	0.60	Temperature factor multiplier (table 2 in DEAP)	0.90		
Primary Circuit loss type	Boiler with uninsulated primary pipework and with cylinder thermostat				
Is hot water storage indoors or in group heating system	Yes				
HEATING SYSTEM – Dist. system losses and gains					
Temperature adjustment [°C]	2.00	Control Category	3	Responsiveness Category	1
Central heating pumps	1	Oil Boiler Pump	0	Oil boiler pump inside dwelling	No
Gas boiler flue fan	0	Warm air heating or fan coil radiators present	No		
HEATING SYSTEM – Energy Requirements (Individual)					
Main space heating system efficiency [%]	350	Space heating efficiency adjustment factor	1	Main space heating fuel	Electricity
Main water heating system efficiency [%]	155	Water heating efficiency adjustment factor	1	Main water heating fuel	Electricity
Secondary heating system efficiency [%]	60	Fraction of heating from secondary heating system	0.1	Secondary space heating system fuel	Wood Logs
Fraction of main space and water heat from CHP	0	Electrical efficiency of CHP	0	Heat efficiency of CHP	0
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/m ² /yr		52	
CO2 emissions [kg/m ² /yr]	11.33	Total compliance with Part L in DEAP?		Complies	
EPC	0.371	EPC Pass/Fail		Complies	
CPC	0.379	CPC Pass/Fail		Complies	
PART L CONFORMANCE - Fabric					
Conformity with Maximum avg U-value requirements	U-value [W/m ² K]	Pass /Fail	Conformity with Max U-value requirements	U-value [W/m ² K]	Pass /Fail
Pitched roof insulated on ceiling	0.16	Pass	Roofs	0.130	Pass
Pitched roof insulated on slope	0.16	Pass	Walls	0.155	Pass
Flat Roof	0.20	Pass	Floors	0.159	Pass
Floors with no underfloor heat	0.21	Pass	External doors / windows / rooflights	2.100	Pass
Floors with underfloor heat	0.15	Pass			
Walls	0.21	Pass			
Percentage of opening areas [%]	22.1	Pass			
Average U value of openings	1.32				
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/m ² /y]		
Solar water heating system	0.00		0.00		
Heat pump as main space heating system	3028.00		11.70		
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		
Total thermal	3028.00		11.70		
Total electrical	1206.00		4.60		
Total thermal equivalent	4234.00		23.30		
Does total thermal equivalent meet part L requirement?	Complies				