

Unit Description	Qty.	Beds	Average Orientation	Watts per Panel	Nr of Panels	kWp	S (KW/yr)	zpv	result (KW/yr)	Total Panels	Total for Units (KW/yr)	Length (m)	Width (m)	Area per Dwelling (m <sup>2</sup> )
A1 3 Bedroom, Gable End Unit	40	3 Bed	E/W	350	6	2.1	929	1	1561	240	62,429	1.722	1.134	11.72
A2 3 Bedroom, Mid terrace	41	3 Bed	E/W	350	6	2.1	929	1	1561	246	63,990	1.722	1.134	11.72
A3 3 Bedroom, Gable End Unit	6	3 Bed	E/W	350	6	2.1	929	1	1561	36	9,364	1.722	1.134	11.72
B 3 Bedroom, Mid terrace	13	3 Bed	E/W	350	6	2.1	929	1	1561	78	20,289	1.722	1.134	11.72
C 4 Bedroom, Semi Detached	12	3 Bed	South	350	8	2.8	1036	1	2321	96	27,848	1.722	1.134	15.62
Block A												1.722	1.134	0.00
One Bed Apartment	18	1 Bed	South	350	4	1.4	1036	1	1160	72	20,886	1.722	1.134	7.81
2 Bedroom Apartment	21	2 Bed	South	350	5	1.75	1036	1	1450	105	30,458	1.722	1.134	9.76
Block B												1.722	1.134	0.00
One Bed Apartment	6	1 Bed	South	350	4	1.4	1036	1	1160	24	6,962	1.722	1.134	7.81
2 Bedroom Apartment	16	2 Bed	South	350	5	1.75	1036	1	1450	80	23,206	1.722	1.134	9.76
Duplex														
Duplex Block A, 1 storey - Apartment - End Unit A	2	2 Bed	South	350	5	1.75	1036	1	1450	10	2,901	1.722	1.134	9.76
Duplex Block A, 2 storey - Duplex - End Unit A	2	3 Bed	South	350	8	2.8	1036	1	2321	16	4,641	1.722	1.134	15.62
Duplex Block A, 1 storey - Apartment - Mid Unit	6	2 Bed	South	350	5	1.75	1036	1	1450	30	8,702	1.722	1.134	9.76
Duplex Block A, 2 storey - Duplex - Mid Unit	6	3 Bed	South	350	8	2.8	1036	1	2321	48	13,924	1.722	1.134	15.62
Duplex Block B, 1 storey - Apartment - End Unit A	2	2 Bed	South	350	5	1.75	1036	1	1450	10	2,901	1.722	1.134	9.76
Duplex Block B, 2 storey - Duplex - End Unit A	2	3 Bed	South	350	8	2.8	1036	1	2321	16	4,641	1.722	1.134	15.62
Duplex Block B, 1 storey - Apartment - Mid Unit	6	2 Bed	South	350	5	1.75	1036	1	1450	30	8,702	1.722	1.134	9.76
Duplex Block B, 2 storey - Duplex - Mid Unit	6	3 Bed	South	350	8	2.8	1036	1	2321	48	13,924	1.722	1.134	15.62
Duplex Block C, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block C, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block C, 1 storey - Apartment - End Unit B & Mid Unit	5	2 Bed	South	350	5	1.75	1036	1	1450	25	7,252	1.722	1.134	9.76
Duplex Block C, 2 storey - Duplex - End Unit B & Mid Unit	5	3 Bed	South	350	8	2.8	1036	1	2321	40	11,603	1.722	1.134	15.62

PV Calculations, subject to Final BER Calculations

**SEAI PV CALCULATION METHOD**

Kelland Homes: Clonburris

Panel Dimensions

Unit Description	Qty.	Beds	Average Orientation	Watts per Panel	Nr of Panels	kWp	S (KW/yr)	zpv	result (KW/yr)	Total Panels	Total for Units (KW/yr)	Length (m)	Width (m)	Area per Dwelling (m <sup>2</sup> )
Duplex Block I, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block I, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block I, 1 storey - Apartment - End Unit B & Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block I, 2 storey - Duplex - End Unit B & Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62
Duplex Block J, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block J, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block J, 1 storey - Apartment - End Unit B & Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block J, 2 storey - Duplex - End Unit B & Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62
Duplex Block K, 2 storey - Duplex - Unit 01 & 02	2	3 Bed	South	350	8	2.8	1036	1	2321	16	4,641	1.722	1.134	15.62
Duplex Block K, 1 storey - Apartment 03	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block K, 1 storey - Apartment 04	1	1 Bed	South	350	4	1.4	1036	1	1160	4	1,160	1.722	1.134	7.81
Duplex Block K, 1 storey - Apartment 05	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block K, 1 storey - Apartment 06	1	1 Bed	South	350	4	1.4	1036	1	1160	4	1,160	1.722	1.134	7.81
Creche	1		South	350	180	63	1036	1	52214	180	52,214	1.722	1.134	351.49
Retail	1		South	350	50	22	1036	1	18234	50	18,234	1.722	1.134	97.64
<b>Total</b>	<b>173</b>				<b>50</b>					<b>1,920</b>	<b>542,707</b>			<b>3749.28</b>

Notes

All PV Calculations are based on most likley PV panels at Final BER stage

Most Average Orientation has been applied

Total results are plus or minus 15% of presented figure

All PV Calculations are based on SEAI formulas

Final Quantity, output of panels will depend on market availability at the time of purchase to meet the BER requirements



PV Calculations, subject to Final BER Calculations

**SEAI PV CALCULATION METHOD**

Kelland Homes: Clonburris

Panel Dimensions

Unit Description	Qty.	Beds	Average Orientation	Watts per Panel	Nr of Panels	kWp	S (KW/yr)	zpv	result (KW/yr)	Total Panels	Total for Units (KW/yr)	Length (m)	Width (m)	Area per Dwelling (m <sup>2</sup> )
Duplex Block D, 1 storey - Apartment - Side Entrance	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block D, 2 storey - Duplex - End Unit	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block D, 1 storey - Apartment - Mid Unit	5	2 Bed	South	350	5	1.75	1036	1	1450	25	7,252	1.722	1.134	9.76
Duplex Block D, 2 storey - Duplex - Mid Unit	5	3 Bed	South	350	8	2.8	1036	1	2321	40	11,603	1.722	1.134	15.62
Duplex Block E, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block E, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block E, 1 storey - Apartment - End Unit B & Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block E, 2 storey - Duplex - End Unit B & Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62
Duplex Block F, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block F, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block F, 1 storey - Apartment - Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block F, 2 storey - Duplex - Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62
Duplex Block G, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block G, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block G, 1 storey - Apartment - End Unit B & Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block G, 2 storey - Duplex - End Unit B & Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62
Duplex Block H, 1 storey - Apartment - End Unit A	1	2 Bed	South	350	5	1.75	1036	1	1450	5	1,450	1.722	1.134	9.76
Duplex Block H, 2 storey - Duplex - End Unit A	1	3 Bed	South	350	8	2.8	1036	1	2321	8	2,321	1.722	1.134	15.62
Duplex Block H, 1 storey - Apartment - End Unit B & Mid Unit	3	2 Bed	South	350	5	1.75	1036	1	1450	15	4,351	1.722	1.134	9.76
Duplex Block H, 2 storey - Duplex - End Unit B & Mid Unit	3	3 Bed	South	350	8	2.8	1036	1	2321	24	6,962	1.722	1.134	15.62