

RTTV Summary Sheet

Address: 34 Mount Kellett Road		BD Ref. No. BD3/2134/10
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input checked="" type="checkbox"/> 3. Others, please specify : Inhabit Group	
No. of Storeys (Residential Units)	2	

Table 1

Deemed to Satisfy RTTV _{wall}									
Facade Orientation Facing	E	NE	N	NW	W	SW	S	SE	
Average Absorptivity	0.24	0.80	0.24	0.23	0.29	0.80	0.34	0.80	
Average Window to Wall Ratio	0.43	0	0.43	0	0.07	0	0.23	0	
Shading Coefficient of Glazing	0.46	0	0.45	0	0.45	0	0.45	0	
Average Shading Coefficient of Facade	0.46	0.99	0.71	0.99	0.41	0.42	0.94	0.48	
Visible Light Transmittance	70 %	N/A %	70 %	N/A %	71 %	N/A %	71 %	N/A %	
External Reflectance	13 %	N/A %	13 %	N/A %	12 %	N/A %	13 %	N/A %	

Table 2

RTTV _{wall}																				
Facade Orientation Facing		EAST				North				West				South						
Wall Orientation Factor		1.072				0.79				1.131				0.975						
Total External Wall Area (Residential Units)		280.55 m ²		Window to Wall Ratio = 0.43		93.92 m ²		Window to Wall Ratio = 0.43		253.24 m ²		Window to Wall Ratio = 0.07		100.74 m ²		Window to Wall Ratio = 0.23				
Total Window Area		120.636 m ²				40.47 m ²				21.79 m ²				23.17 m ²						
Heat Conduction	Opaque Wall	1.03 W/m ²				1.03 W/m ²				1.34 W/m ²				0.83 W/m ²						
	Window	0.52 W/m ²				5.06 W/m ²				0.08 W/m ²				0.40 W/m ²						
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %				
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %				
		<input checked="" type="checkbox"/> Clear	120.63m ²	0.46	VLT=70 %	ER= 13 %	<input checked="" type="checkbox"/> Clear	40.47m ²	0.45	VLT=70 %	ER= 13 %	<input checked="" type="checkbox"/> Clear	21.79 m ²	0.45	VLT=71 %	ER= 12 %	<input checked="" type="checkbox"/> Clear	23.17m ²	0.45	VLT=71 %
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No						
	Sidefin	<input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No						
Solar Radiation through Gazing		8.64 W/m ²				0.29 W/m ²				1.37 W/m ²				5.85 W/m ²						
Average Absorptivity		0.80				0.24				0.29				0.34						
RTTV _{wall} at each facade		10.18 W/m ²				6.38 W/m ²				2.78 W/m ²				7.08 W/m ²						
Overall RTTV _{wall}		6.45				W/m ²				< 10 W/m ² ✓										

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		391.04 sqm m ²				
Total Skylight Area		30.19 sqm m ²				
Heat Conduction	Roof	1.2 W/m ²				
	Skylight	1.5 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Clear	Area= 30.19 m ²	SC= 0.45	VLT= 70 %	ER= 13 %
Double Glazing		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Solar Radiation through Glazing		2.31 W/m ²				
Average Absorptivity (roof)		0.32				
Overall RTTV _{Roof}		3.60 W/m ² < 4 W/m ² ✓				

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Notes : (please refer to enclosed report for detail and breakdown)

1. Please tick in the box as appropriate
2. Window and skylight data should represent the major proportion of its use in the development.