



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

PNAP
 APP-156
 Appendix A

Address: **203 HAI TAN STREET, CHEUNG SHA WAN, NKIL 6506 (SITE B)** BD Ref No: **4048/09(SITE B)**

Building Type: Residential

RTTV calculated by: 1. Registered Professional Engineers
 2. Architect
 3. Others, please specify

No. of Storeys (Residential Units): **32**

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	NE	SE	SW	NW	Total		
Average Absorptivity	0.6	0.6	0.6	0.6			
Average Window to Wall Ratio	0.510	0.270	0	0.560			
Shading Coefficient of Glazing	Refer to attachment 1	Refer to attachment 2	Refer to attachment 3	Refer to attachment 4			
Average Shading Coefficient of Facade	0.622	0.628	0	0.611	0.621		
Visible Light Transmittance	Refer to attachment 1	Refer to attachment 2	Refer to attachment 3	Refer to attachment 4	52.56	%	> 52%
External Reflectance	1	2	3	4	7.3	%	< 20%

SC -
 VLT -
 Reflected

Table 2

RTTV_{Wall}

Facade Orientation Facing	NE	SE	SW	NW	
Wall Orientation Factor	0.924	1.051	1.092	0.975	
Total External Wall Area (Residential Units)	3528 m ²	1483.2 m ²	1444.32 m ²	1370.40 m ²	
Total Window Factor	1799.28 m ² = 0.510	400.76 m ² = 0.270	0 m ² = 0	767.42 m ² = 0.560	
Heat Conduction	Opaque Wall	3.07 W/m ²	4.37 W/m ²	1.72 W/m ²	
	Window	1.46 W/m ²	0.86 W/m ²	0.85 W/m ²	
Window	Glass Type	<input type="checkbox"/> Reflective	<input type="checkbox"/> Reflective	<input type="checkbox"/> Reflective	<input type="checkbox"/> Reflective
		<input type="checkbox"/> Tinted	<input type="checkbox"/> Tinted	<input type="checkbox"/> Tinted	<input type="checkbox"/> Tinted
		<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Clear
		Refer to attachment 1	Refer to attachment 2	Refer to attachment 3	Refer to attachment 4
Double Glazing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Sidefin	<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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Solar Radiation through Glazing	9.04 W/m ²	5.43 W/m ²	0 W/m ²	5.43 W/m ²	
Average Absorptivity	0.6	0.6	0.6	0.6	
RTTV _{Wall} at each facade	12.31 W/m ²	9.37 W/m ²	4.37 W/m ²	8.00 W/m ²	
Overall RTTV _{Wall}	9.53 W/m ²				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16	
Total Roof Area (Residential Units)	202.2 m ²	
Total Skylight Area	/ m ²	
Heat Conduction	Roof	2.83 W/m ²
	Skylight	/ 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 type="checkbox"/> Clear Area= m ² SC= VLT= % ER= %
Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No	
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Solar Radiation through Glazing	/ W/m ²	
Average Absorptivity (roof)	0.7	
Overall RTTV _{Roof}	2.83 W/m ² (4 W/m ²)	