



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**

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Address: J/O Sheung Hing Road and Kowloon City Road, K/L No. 11246 BD Ref. No. BD 2/4023/15

Building Type: Residential

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

No. of Storeys (Residential Units): 21 8/F and above.

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	NW	SW	SE	NE
Average Absorptivity	0.622	0.633	0.683	0.633
Average Window to Wall Ratio	0.366	0.119	0.320	0.121
Shading Coefficient of Glazing	0.68, 0.58	0.68, 0.58	0.68	0.68, 0.58
Average Shading Coefficient of Facade	0.67	0.66	0.68	0.66
Visible Light Transmittance	%	%	%	%
External Reflectance	%	%	%	%

Table 2

RTTV_{Wall}

Facade Orientation Facing	NW	SW	SE	NE
Wall Orientation Factor	0.965	1.092	1.051	0.924
Total External Wall Area (Residential Units)	2047 m ²	1376 m ²	4008 m ²	1376 m ²
Window to Wall Ratio	0.366	0.119	0.320	0.121
Total Window Factor	749 m ²	164 m ²	1281 m ²	166 m ²
Heat Conduction	3.50 W/m ²	8.37 W/m ²	6.72 W/m ²	7.07 W/m ²
Window	1.14 W/m ²	0.39 W/m ²	1.10 W/m ²	0.34 W/m ²
Window	<input type="checkbox"/> Reflective Area= m ² SC= VLT= % ER= % <input checked="" type="checkbox"/> Tinted Area= 749 m ² SC= 0.68, 0.58 VLT= % ER= % <input type="checkbox"/> Clear Area= m ² SC= VLT= % ER= %	<input type="checkbox"/> Reflective Area= m ² SC= VLT= % ER= % <input checked="" type="checkbox"/> Tinted Area= 164 m ² SC= 0.68, 0.58 VLT= % ER= % <input type="checkbox"/> Clear Area= m ² SC= VLT= % ER= %	<input type="checkbox"/> Reflective Area= m ² SC= VLT= % ER= % <input checked="" type="checkbox"/> Tinted Area= 1281 m ² SC= 0.68 VLT= % ER= % <input type="checkbox"/> Clear Area= m ² SC= VLT= % ER= %	<input type="checkbox"/> Reflective Area= m ² SC= VLT= % ER= % <input checked="" type="checkbox"/> Tinted Area= 166 m ² SC= 0.68, 0.58 VLT= % ER= % <input type="checkbox"/> Clear Area= m ² SC= VLT= % ER= %
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 checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Solar Radiation through Glazing	9.53 W/m ²	3.07 W/m ²	7.65 W/m ²	2.8 W/m ²
Average Absorptivity	0.622	0.633	0.683	0.633
RTTV _{Wall} at each facade	14.18 W/m ²	11.83 W/m ²	15.47 W/m ²	10.21 W/m ²
Overall RTTV _{Wall}	13.78 W/m ²			

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16			
Total Roof Area (Residential Units)	245 m ²			
Total Skylight Area	0 m ²			
Heat Conduction	Roof	0.95 W/m ²		
	Skylight	0 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	0 W/m ²			
Average Absorptivity (roof)	0.3			
Overall RTTV _{Roof}	0.95 W/m ²			