



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

2/9/14/15 (P.T.V)
 (Handwritten signature)

Address: Lok Wo Sha Lane, Ma On Shan, N.T. on S.T.T.L. 605 (Tower 1) BD Ref. No. 2/9144/15

Building Type: Residential

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

No. of Storeys (Residential Units): 20

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing									
Average Absorptivity									
Average Window to Wall Ratio									
Shading Coefficient of Glazing									
Average Shading Coefficient of Facade									
Visible Light Transmittance		%		%		%		%	%
External Reflectance		%		%		%		%	%

Table 2

RTTV _{Wall}																
Facade Orientation Facing	North East				South East				South West				North West			
Wall Orientation Factor	0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)	2426.14 m ²		Window to Wall Ratio = 0.65		608.98 m ²		Window to Wall Ratio = 0.19		1553.47 m ²		Window to Wall Ratio = 0.39		1050.35 m ²		Window to Wall Ratio = 0.12	
Total Window Factor	1582.95 m ²				113.33 m ²				604.74 m ²				120.83 m ²			
Heat Conduction	Opaque Wall	2.96 W/m ²		9.10 W/m ²		6.84 W/m ²		8.94 W/m ²								
	Window	1.08 W/m ²		0.35 W/m ²		0.76 W/m ²		0.20 W/m ²								
Window	Glass Type	<input checked="" type="checkbox"/> Tinted(type1)	Area= 568.10m ²	SC= 0.50	VLT= 60 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type1)	Area= 17.51m ²	SC= 0.50	VLT= 60 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type1)	Area= 574.50m ²	SC= 0.50	VLT= 60 %	ER= 10 %
		<input checked="" type="checkbox"/> Tinted(type2)	Area= 561.21 m ²	SC= 0.50	VLT= 60 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type2)	Area= 6.01m ²	SC= 0.50	VLT= 60 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type2)	Area= 15.52 m ²	SC= 0.50	VLT= 60 %	ER= 10 %
		<input checked="" type="checkbox"/> Tinted(type3)	Area= 233.70m ²	SC= 0.51	VLT= 61 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type3)	Area= 59.61m ²	SC= 0.51	VLT= 61 %	ER= 10 %	<input checked="" type="checkbox"/> Tinted(type3)	Area= 17.53 m ²	SC= 0.51	VLT= 61 %	ER= 10 %
	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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Solar Radiation through Glazing	11.06 W/m ²		3.37 W/m ²		4.92 W/m ²		2.29 W/m ²									
Average Absorptivity	0.828		0.830		0.798		0.813									
RTTV _{Wall} at each facade	15.11 W/m ²		12.82 W/m ²		12.52 W/m ²		11.43 W/m ²									
Overall RTTV _{Wall}			13.46 W/m ²		14 W/m ² ✓											

Table 3

RTTV _{Roof}					
Roof Orientation Factor	2.16				
Total Roof Area (Residential Units)	172.58 m ²				
Total Skylight Area	0 m ²				
Heat Conduction	Roof	2.81 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)	0.7				
Overall RTTV _{Roof}	2.81 W/m ² ✓				