



# 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: 38 Pak Tai Street - K.I.L. 11245		BD Ref. No. BD 2/4078/13
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	21	

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>									
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 <sub>Wall</sub>																	
Facade Orientation Facing		North-West				North-East				South-East				South-West			
Wall Orientation Factor		0.965				0.924				1.051				1.092			
Total External Wall Area (Residential Units)		2546.61 m <sup>2</sup>		Window to Wall Ratio = 0.47		1329.52 m <sup>2</sup>		Window to Wall Ratio = 0.39		1409.95 m <sup>2</sup>		Window to Wall Ratio = 0.24		1486.39 m <sup>2</sup>		Window to Wall Ratio = 0.34	
Total Window Factor		1190.18 m <sup>2</sup>				508.96 m <sup>2</sup>				328.21 m <sup>2</sup>				503.22 m <sup>2</sup>			
Heat Conduction	Opaque Wall	3.62 W/m <sup>2</sup>				3.35 W/m <sup>2</sup>				5.68 W/m <sup>2</sup>				4.24 W/m <sup>2</sup>			
	Window	0.84 W/m <sup>2</sup>				0.64 W/m <sup>2</sup>				0.46 W/m <sup>2</sup>				0.67 W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	
		<input checked="" type="checkbox"/> Tinted	Area= 1190.18 m <sup>2</sup>	SC= 0.43	VLT= 50 %	ER= 17 %	<input checked="" type="checkbox"/> Tinted	Area= 507.43 m <sup>2</sup>	SC= 0.43	VLT= 50 %	ER= 17 %	<input checked="" type="checkbox"/> Tinted	Area= 328.21 m <sup>2</sup>	SC= 0.43	VLT= 50 %	ER= 17 %	
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	
		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			
	Siddefin	<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		7.30 W/m <sup>2</sup>				5.82 W/m <sup>2</sup>				4.13 W/m <sup>2</sup>				5.88 W/m <sup>2</sup>			
Average Absorptivity		0.60				0.50				0.60				0.50			
RTTV <sub>Wall</sub> at each facade		11.76 W/m <sup>2</sup>				9.81 W/m <sup>2</sup>				10.27 W/m <sup>2</sup>				10.79 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		10.86 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		193.40 m <sup>2</sup>									
Total Skylight Area		0 m <sup>2</sup>									
Heat Conduction	Roof	3.18 W/m <sup>2</sup>									
	Skylight	0 W/m <sup>2</sup>									
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %
		<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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 <sup>2</sup>									
Average Absorptivity (roof)		0.7									
Overall RTTV <sub>Roof</sub>		3.18 W/m <sup>2</sup>									