

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL DEVELOPMENT AT TSING YI TOWN LOT NO. 192		BD Ref. No. 2/9129/18
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)	16	

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>								
Facade Orientation Facing	North	East	South	West				
Average Absorptivity	0.580	0.798	0.663	0.772				
Average Window to Wall Ratio	0.60	0.22	0.52	0.30				
Shading Coefficient of Glazing	0.45/0.49	0.49	0.49	0.49				
Average Shading Coefficient of Facade	0.47	0.49	0.40	0.49				
Visible Light Transmittance	53/55%	55 %	55 %	55 %	%	%	%	%
External Reflectance	9/9 %	9 %	9 %	9 %	%	%	%	%

Table 2

RTTV <sub>Wall</sub>																	
Facade Orientation Facing		North				East				South				West			
Wall Orientation Factor		0.790				1.072				0.975				1.131			
Total External Wall Area (Residential Units)		2819.49 m <sup>2</sup>	Window to Wall Ratio			562.52 m <sup>2</sup>	Window to Wall Ratio			1369.26 m <sup>2</sup>	Window to Wall Ratio			405.72 m <sup>2</sup>	Window to Wall Ratio		
Total Window Area		1698.35 m <sup>2</sup>	1 = 0.60			122.03 m <sup>2</sup>	1 = 0.22			716.12 m <sup>2</sup>	1 = 0.52			122.17 m <sup>2</sup>	1 = 0.30		
Heat Conduction	Opaque Wall	2.46 W/m <sup>2</sup>				7.95 W/m <sup>2</sup>				4.03 W/m <sup>2</sup>				6.82 W/m <sup>2</sup>			
	Window	0.61 W/m <sup>2</sup>				0.30 W/m <sup>2</sup>				0.65 W/m <sup>2</sup>				0.44 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 type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= % ER= %
		<input checked="" type="checkbox"/> Tinted	Area= 1585.59 m <sup>2</sup>	SC= 0.45/0.49	VLT= 53/55 % ER= 9/9 %	<input checked="" type="checkbox"/> Tinted	Area= 122.03 m <sup>2</sup>	SC= 0.49	VLT= 55 % ER= 9 %	<input checked="" type="checkbox"/> Tinted	Area= 716.12 m <sup>2</sup>	SC= 0.49	VLT= 55 % ER= 9 %	<input checked="" type="checkbox"/> Tinted	Area= 122.17 m <sup>2</sup>	SC= 0.49	VLT= 55 % ER= 9 %
		<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= %	<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				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Sidefin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Solar Radiation through Gazing		9.30 W/m <sup>2</sup>				4.76 W/m <sup>2</sup>				8.44 W/m <sup>2</sup>				6.97 W/m <sup>2</sup>			
Average Absorptivity		0.580				0.798				0.663				0.772			
RTTV <sub>Wall</sub> at each facade		12.37 W/m <sup>2</sup>				13.00 W/m <sup>2</sup>				13.12 W/m <sup>2</sup>				14.22 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		12.80 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		271.15 m <sup>2</sup>									
Total Skylight Area		N/A m <sup>2</sup>									
Heat Conduction	Roof	2.89 W/m <sup>2</sup>									
	Skylight	N/A 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 checked="" type="checkbox"/> No									
External Shading		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Solar Radiation through Glazing		N/A W/m <sup>2</sup>									
Average Absorptivity (roof)		0.7									
Overall RTTV <sub>Roof</sub>		2.89 W/m <sup>2</sup>									

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

Notes :

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