

70<sup>2</sup>



# 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: TSEUNG KWAN O AREA 73A, TSEUNG KWAN O, TKO TL No. 110		BD Ref. No. BDK9076115
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):	33	

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>									
Facade Orientation Facing	NE	SE	SW	NW					
Average Absorptivity	0.33	0.33	0.33	0.33					
Average Window to Wall Ratio	0.44	0.30	0.32	0.06					
Shading Coefficient of Glazing	0.73	0.73	0.73	0.73					
Average Shading Coefficient of Facade	0.51	0.50	0.52	0.42					
Visible Light Transmittance	80 %	80 %	80 %	80 %	%	%	%	%	%
External Reflectance	6 %	6 %	6 %	6 %	%	%	%	%	%

Table 2

RTTV <sub>Wall</sub>																			
Facade Orientation Facing		NE				SE				SW				NW					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		3939.4 m <sup>2</sup>				979 m <sup>2</sup>				3020.3 m <sup>2</sup>				162.3 m <sup>2</sup>					
Window to Wall Ratio		0.44				0.3				0.32				0.06					
Total Window Factor		1749.6 m <sup>2</sup>				297.1 m <sup>2</sup>				955.5 m <sup>2</sup>				71.0 m <sup>2</sup>					
Heat Conduction	Opaque Wall	4.47 W/m <sup>2</sup>				6.36 W/m <sup>2</sup>				6.49 W/m <sup>2</sup>				7.92 W/m <sup>2</sup>					
	Window	1.17 W/m <sup>2</sup>				0.91 W/m <sup>2</sup>				1.01 W/m <sup>2</sup>				0.17 W/m <sup>2</sup>					
Window	Glass Type	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %			
		<input type="checkbox"/> Tinted	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area=	SC=	VLT= %	ER= %			
		<input checked="" type="checkbox"/> Clear	Area= 1749 m <sup>2</sup>	SC= 0.73	VLT= 80 %	ER= 6 %	<input checked="" type="checkbox"/> Clear	Area= 297 m <sup>2</sup>	SC= 0.73	VLT= 80 %	ER= 6 %	<input checked="" type="checkbox"/> Clear	Area= 956 m <sup>2</sup>	SC= 0.73	VLT= 80 %	ER= 6 %	<input checked="" type="checkbox"/> Clear	Area= 71 m <sup>2</sup>	SC= 0.73
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		<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		<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		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
	Sidfin	<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		<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		8.79 W/m <sup>2</sup>				6.62 W/m <sup>2</sup>				7.48 W/m <sup>2</sup>				1.63 W/m <sup>2</sup>					
Average Absorptivity		0.33				0.33				0.33				0.33					
RTTV <sub>Wall</sub> at each facade		14.43 W/m <sup>2</sup>				13.89 W/m <sup>2</sup>				14.98 W/m <sup>2</sup>				9.72 W/m <sup>2</sup>					
Overall RTTV <sub>Wall</sub>		13.91 W/m <sup>2</sup>																	

Table 3

RTTV <sub>Roof</sub>									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		386 m <sup>2</sup>							
Total Skylight Area		N/A m <sup>2</sup>							
Heat Conduction	Roof	3.16 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"/> Tinted	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)									
Overall RTTV <sub>Roof</sub>		3.16 W/m <sup>2</sup>							