

RTTV Summary Sheet

Address:	Lot No. 4328 in Demarcation District No. 124, Hung Chi Road, Hung Yuen Road, Hung Shui Kiu	BD Ref. No.	BD/3/9217/13
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)	5 storeys for Tower 1 and 2; 2 storeys for Maisonette A, B, C and D		

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>							
Facade Orientation Facing	East	North	West	South			
Average Absorptivity	0.42	0.39	0.42	0.33			
Average Window to Wall Ratio	0.41	0.36	0.43	0.38			
Shading Coefficient of Glazing	0.52	0.52	0.52	0.52			
Average Shading Coefficient of Facade	0.52	0.52	0.52	0.52			
Visible Light Transmittance	56 %	56 %	56 %	56 %	%	%	%
External Reflectance	13 %	13 %	13 %	13 %	%	%	%

Table 2

RTTV <sub>Wall</sub>																	
Facade Orientation Facing		East				North				West				South			
Wall Orientation Factor		1.072				0.79				1.131				0.975			
Total External Wall Area (Residential Units)		3019.97 m <sup>2</sup>		Window to Wall Ratio = 0.41		1891.80 m <sup>2</sup>		Window to Wall Ratio = 0.36		2924.60 m <sup>2</sup>		Window to Wall Ratio = 0.43		1821.33 m <sup>2</sup>		Window to Wall Ratio = 0.38	
Total Window Area		1243.97 m <sup>2</sup>				673.77 m <sup>2</sup>				1261.09 m <sup>2</sup>				697.32 m <sup>2</sup>			
Heat Conduction	Opaque Wall	3.31 W/m <sup>2</sup>				2.45 W/m <sup>2</sup>				3.38 W/m <sup>2</sup>				2.48 W/m <sup>2</sup>			
	Window	1.35 W/m <sup>2</sup>				0.86 W/m <sup>2</sup>				1.49 W/m <sup>2</sup>				1.14 W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %
		<input checked="" type="checkbox"/> Tinted	Area= 1243.97 m <sup>2</sup>	SC= 0.52	VLT= 56 %	<input checked="" type="checkbox"/> Tinted	Area= 673.77 m <sup>2</sup>	SC= 0.52	VLT= 56 %	<input checked="" type="checkbox"/> Tinted	Area= 1261.09 m <sup>2</sup>	SC= 0.52	VLT= 56 %	<input checked="" type="checkbox"/> Tinted	Area= 697.32 m <sup>2</sup>	SC= 0.52	VLT= 56 %
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %
		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 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			
	Sidfin	<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			
Solar Radiation through Glazing		9.59 W/m <sup>2</sup>				6.23 W/m <sup>2</sup>				10.59 W/m <sup>2</sup>				8.33 W/m <sup>2</sup>			
Average Absorptivity		0.42				0.39				0.42				0.33			
RTTV <sub>Wall</sub> at each facade		14.25 W/m <sup>2</sup>				9.54 W/m <sup>2</sup>				15.46 W/m <sup>2</sup>				11.95 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		13.26 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		3750.81 m <sup>2</sup>				
Total Skylight Area		0 m <sup>2</sup>				
Heat Conduction	Roof	1.77 W/m <sup>2</sup>				
	Skylight	0 W/m <sup>2</sup>				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= N/A m <sup>2</sup>	SC= N/A	VLT= N/A %	ER= N/A %
		<input type="checkbox"/> Tinted	Area= N/A m <sup>2</sup>	SC= N/A	VLT= N/A %	ER= N/A %
		<input type="checkbox"/> Clear	Area= N/A m <sup>2</sup>	SC= N/A	VLT= N/A %	ER= N/A %
	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		0 W/m <sup>2</sup>				
Average Absorptivity (roof)		0.70				
Overall RTTV <sub>Roof</sub>		1.77 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.