

RTTV Summary Sheet

Address: T.M.T.L. NO.549, 2 King Sau Lane, Tuen Mun, N.T.		SD Ref. No. 2/19226/19
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)	14	

Table 1

Deemed to Satisfy RTTV <sub>wall</sub>							
Facade Orientation Facing	North East	South East	South West	North West			
Average Absorptivity	0.8	0.8	0.8	0.8			
Average Window to Wall Ratio	0.23	0.06	0.23	0.41			
Shading Coefficient of Glazing	0.36/0.66	0.36	0.36/0.66	0.36/0.66			
Average Shading Coefficient of Facade							
Visible Light Transmittance	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%

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)		654.64 m <sup>2</sup>				791.35 m <sup>2</sup>				654.64 m <sup>2</sup>				1134.35 m <sup>2</sup>			
Window to Wall Ratio		= 0.23				= 0.06				= 0.23				= 0.41			
Total Window Area		151.41 m <sup>2</sup>				49.98 m <sup>2</sup>				151.41 m <sup>2</sup>				460.64 m <sup>2</sup>			
Heat Conduction	Opaque Wall	6.84 W/m <sup>2</sup>				9.02 W/m <sup>2</sup>				8.09 W/m <sup>2</sup>				5.91 W/m <sup>2</sup>			
	Window	5.25 W/m <sup>2</sup>				1.00 W/m <sup>2</sup>				6.20 W/m <sup>2</sup>				8.13 W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %
		<input checked="" type="checkbox"/> Tinted	115 m <sup>2</sup>	0.66	50 %	<input type="checkbox"/> Tinted				<input checked="" type="checkbox"/> Tinted	115 m <sup>2</sup>	0.36	15 %	<input checked="" type="checkbox"/> Tinted	210 m <sup>2</sup>	0.64	50 %
		<input checked="" type="checkbox"/> Clear	364 m <sup>2</sup>	0.36	55 %	<input checked="" type="checkbox"/> Clear	49.98 m <sup>2</sup>	0.36	55 %	<input checked="" type="checkbox"/> Clear	364 m <sup>2</sup>	0.66	5 %	<input checked="" type="checkbox"/> Clear	260.7 m <sup>2</sup>	0.36	15 %
	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			
	Sideline	<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		5.25 W/m <sup>2</sup>				1.00 W/m <sup>2</sup>				6.20 W/m <sup>2</sup>				8.13 W/m <sup>2</sup>			
Average Absorptivity		0.8				0.8				0.8				0.8			
RTTV <sub>wall</sub> at each facade		12.68 W/m <sup>2</sup>				10.09 W/m <sup>2</sup>				14.99 W/m <sup>2</sup>				14.85 W/m <sup>2</sup>			
Overall RTTV <sub>wall</sub>		13.27 W/m <sup>2</sup>															

Table 3

RTTV <sub>roof</sub>							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		178.2 m <sup>2</sup>					
Total Skylight Area		0 m <sup>2</sup>					
Heat Conduction	Roof	2.76 W/m <sup>2</sup>					
	Skylight	0 W/m <sup>2</sup>					
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	
		<input type="checkbox"/> Tinted					
		<input type="checkbox"/> Clear					
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>		2.76 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.