

RTTV Summary Sheet

Address: Proposed Residential and Commercial Development at 1 Lei Yue Mun Path, Lei Yue Mun, Kowloon		BD Ref. No.
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)	Tower 1 - 23 Storeys , 6/F-31/F (13/F, 14/F & 24/F Excluded) , Tower 2 - 24 Storeys , 5/F-31/F (13/F, 14/F & 24/F Excluded)	

Table 1

~~Deemed to Satisfy RTTV_{wall}~~

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_{wall}

Facade Orientation Facing	East			South			South-West			West											
Wall Orientation Factor	1.072			0.975			1.092			1.131											
Total External Wall Area (Residential Units)	1937.21 m ²	Window to Wall Ratio		3613.28 m ²	Window to Wall Ratio		2443.53 m ²	Window to Wall Ratio		921.9 m ²	Window to Wall Ratio										
Total Window Area	653.64 m ²	= 0.34		1941.98 m ²	= 0.54		1311.16 m ²	= 0.54		523.15 m ²	= 0.57										
Heat Conduction	Opaque Wall	5.14 W/m ²			3.33 W/m ²			3.80 W/m ²			3.15 W/m ²										
	Window	0.45 W/m ²			0.58 W/m ²			0.63 W/m ²			0.69 W/m ²										
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 653.64 m ²	SC= 0.34	VLT= 50 %	ER= 14 %	<input checked="" type="checkbox"/> Reflective	Area= 1915 m ²	SC= 0.34	VLT= 50 %	ER= 14 %	<input checked="" type="checkbox"/> Reflective	Area= 1311 m ²	SC= 0.34	VLT= 50 %	ER= 14 %	<input checked="" type="checkbox"/> Reflective	Area= 523 m ²	SC= 0.34	VLT= 50 %	ER= 14 %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input checked="" type="checkbox"/> Tinted	Area= 26.96 m ²	SC= 0.64	VLT= 50 %	ER= 5 %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %
	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										
	External Shading	Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										
	Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Solar Radiation through Gazing	5.24 W/m ²			6.22 W/m ²			6.01 W/m ²			8.46 W/m ²											
Average Absorptivity	0.71			0.69			0.77			0.82											
RTTV _{wall} at each facade	10.83 W/m ²			10.13 W/m ²			10.44 W/m ²			12.30 W/m ²											
Overall RTTV _{wall}	<i>Refer to page 2 for continuous</i>											W/m ²									

Table 3

~~RTTV_{roof}~~

Roof Orientation Factor					
Total Roof Area (Residential Units)	m ²				
Total Skylight Area	m ²				
Heat Conduction	Roof W/m ²				
	Skylight W/m ²				
Skylight	Glass Type				
	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
	<input type="checkbox"/> Clear	Area= m ²	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	W/m ²				
Average Absorptivity (roof)					
Overall RTTV _{roof}	W/m ²				

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.

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Table 1

Deemed to Satisfy RTTV _{wall}									
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 _{wall}																
Facade Orientation Facing	North-West				North				North-East							
Wall Orientation Factor	0.965				0.79				0.924							
Total External Wall Area (Residential Units)	637 m ²	Window to Wall Ratio		2635 m ²	Window to Wall Ratio		1478.2 m ²	Window to Wall Ratio								
Total Window Area	0 m ²	= 0		1149.62 m ²	= 0.44		719.8 m ²	= 0.49								
Heat Conduction	Opaque Wall				Window				Opaque Wall				Window			
	6.31 W/m ²				3.96 W/m ²				3.01 W/m ²				1.23 W/m ²			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input checked="" type="checkbox"/> Reflective	Area= 41.58 m ²	SC= 0.34	VLT= 50 %	ER= 14 %	<input checked="" type="checkbox"/> Reflective	Area= 200 m ²	SC= 0.34	VLT= 50 %	ER= 14 %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input checked="" type="checkbox"/> Tinted	Area= 1108 m ²	SC= 0.64	VLT= 50 %	ER= 5 %	<input type="checkbox"/> Tinted	Area= 519.8 m ²	SC= 0.64	VLT= 50 %	ER= 5 %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %
	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 type="checkbox"/> No		
	External Shading	Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Gazing	0 W/m ²				8.79 W/m ²				9.07 W/m ²				W/m ²			
Average Absorptivity	0.65				0.79				0.59							
RTTV _{wall} at each facade	6.31 W/m ²				13.89 W/m ²				13.31 W/m ²				W/m ²			
Overall RTTV _{wall}					11.32 W/m ²											

Table 3

RTTV _{Roof}											
Roof Orientation Factor	2.16										
Total Roof Area (Residential Units)	454.35 m ²										
Total Skylight Area	0 m ²										
Heat Conduction	Roof	1.08 W/m ²									
	Skylight	0 W/m ²									
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	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	0 W/m ²										
Average Absorptivity (roof)	0.9										
Overall RTTV _{Roof}	1.08 W/m ²										

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Notes :

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- Window and skylight data should represent the major proportion of its use in the development.