

RTTV Summary Sheet

Address: Proposed Composite Development No. 06-22 Chung Ching Street, Sai Ying Pun, Hong Kong		BD Ref. No. BD 2/2028/16
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input checked="" type="checkbox"/> 3. Others, please specify : E&M Consultant	
No. of Storeys (Residential Units)	24	

Table 1

Deemed to Satisfy RTTV _{wall}									
Facade Orientation Facing	East	North	West	South					
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				North				West				South						
Wall Orientation Factor	1.072				0.79				1.131				0.975						
Total External Wall Area (Residential Units)	2321.43 m ²		Window to Wall Ratio		1168.35 m ²		Window to Wall Ratio		1819.94 m ²		Window to Wall Ratio		803.07 m ²		Window to Wall Ratio				
Total Window Area	1587.56 m ²		= 0.68		521.91 m ²		= 0.45		184.89 m ²		= 0.10		527.23 m ²		= 0.66				
Heat Conduction	Opaque Wall				Window				Opaque Wall				Window						
	3.01 W/m ²				0.80 W/m ²				3.89 W/m ²				0.38 W/m ²						
Window	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"/> 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"/> Tinted	Area= m ²	SC=	VLT= %	ER= %			
		<input checked="" type="checkbox"/> Clear	Area= 1587.56 m ²	SC= 0.33	VLT= 61 %	ER= 15 %	<input checked="" type="checkbox"/> Clear	Area= 521.91 m ²	SC= 0.33	VLT= 61 %	ER= 15 %	<input checked="" type="checkbox"/> Clear	Area= 184.89 m ²	SC= 0.33	VLT= 61 %	ER= 15 %			
		Double Glazing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing				9.26 W/m ²				4.81 W/m ²				1.57 W/m ²				8.36 W/m ²			
Average Absorptivity				0.82				0.82				0.82				0.82			
RTTV _{wall} at each facade				13.07 W/m ²				9.08 W/m ²				10.48 W/m ²				12.04 W/m ²			
Overall RTTV _{wall}				11.40 W/m ²															

Table 3

RTTV _{roof}											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		287 m ²									
Total Skylight Area		0 m ²									
Heat Conduction	Roof	2.89 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 type="checkbox"/> No									
External Shading		<input type="checkbox"/> Yes <input type="checkbox"/> No									
Solar Radiation through Glazing		0 W/m ²									
Average Absorptivity (roof)		0.7									
Overall RTTV _{roof}		2.89 W/m ²									

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

Notes :

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