

RTTV Summary Sheet

Address: Proposed Composite Building at 350 Un Chau Street		BD Ref. No. 2/4088/10
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input checked="" type="checkbox"/> 2. Architect	
	<input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	25	

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		NW				NE				SE				SW							
Wall Orientation Factor		0.965				0.924				1.051				1.092							
Total External Wall Area (Residential Units)		998.81 m ²		Window to Wall Ratio = 0.41		1101.19 m ²		Window to Wall Ratio = 0.33		707.88 m ²		Window to Wall Ratio = 0.39		2496.38 m ²		Window to Wall Ratio = 0.36					
Total Window Area		413.86 m ²				359.46 m ²				274.65 m ²				910.79 m ²							
Heat Conduction	Opaque Wall	2.48 W/m ²				3.70 W/m ²				3.40 W/m ²				3.35 W/m ²							
	Window	1.35 W/m ²				1.02 W/m ²				1.38 W/m ²				1.35 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"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Tinted	414 m ²	0.66	50 %	6 %	<input checked="" type="checkbox"/> Tinted	359 m ²	0.66	50 %	6 %	<input checked="" type="checkbox"/> Tinted	275 m ²	0.66	50 %	6 %	<input checked="" type="checkbox"/> Tinted	911 m ²	0.66	50 %	6 %
		<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
	Sidfin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidfin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidfin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidfin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Solar Radiation through Gazing		9.57 W/m ²				7.53 W/m ²				10.35 W/m ²				9.59 W/m ²							
Average Absorptivity		0.54				0.62				0.56				0.57							
RTTV _{wall} at each facade		13.41 W/m ²				12.25 W/m ²				15.13 W/m ²				14.29 W/m ²							
Overall RTTV _{wall}						13.81 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		168 m ²				
Total Skylight Area		0 m ²				
Heat Conduction	Roof	3.42 W/m ²				
	Skylight	0 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		0 W/m ²				
Average Absorptivity (roof)		0.7				
Overall RTTV _{Roof}		3.42 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.