

RTTV Summary Sheet

Address: 75 PEAK ROAD, THE PEAK, HONG KONG RBL 670 SA		BD Ref. No. 2/2023/16
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)	2	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	S	N	E	W				
Average Absorptivity	0.6	0.6	0.6	0.6				
Average Window to Wall Ratio	0.366	0.208	0.162	0.110				
Shading Coefficient of Glazing	0.4	0.4	0.4	0.4				
Average Shading Coefficient of Facade	0.4	0.4	0.4	0.4				
Visible Light Transmittance	58 %	58 %	58 %	58 %	%	%	%	%
External Reflectance	16 %	16 %	16 %	16 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		S					N					E					W				
Wall Orientation Factor		0.975					0.79					1.072					1.131				
Total External Wall Area (Residential Units)		306.9 m ²		Window to Wall Ratio			124.9 m ²		Window to Wall Ratio			52.3 m ²		Window to Wall Ratio			63.6 m ²		Window to Wall Ratio		
Total Window Area		112.24 m ²		= 0.366			26.04 m ²		= 0.208			8.48 m ²		= 0.162			6.98 m ²		= 0.110		
Heat Conduction	Opaque Wall	2.77 W/m ²					2.80 W/m ²					4.02 W/m ²					4.51 W/m ²				
	Window	0.36 W/m ²					0.17 W/m ²					0.17 W/m ²					0.12 W/m ²				
Window	Glass Type	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area=	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Tinted	Area=	SC=	VLT= 58 %	ER= 16 %	<input checked="" type="checkbox"/> Tinted	Area=	SC=	VLT= 58 %	ER= 16 %	<input checked="" type="checkbox"/> Tinted	Area=	SC=	VLT= 58 %	ER= 16 %	<input checked="" type="checkbox"/> Tinted	Area=	SC=	VLT= 58 %	ER= 16 %
		<input type="checkbox"/> Clear	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area=	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area=	SC=	VLT= %	ER= %
		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				
	Sidefin	<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 Gazing		5.95 W/m ²					2.75 W/m ²					2.90 W/m ²					2.07 W/m ²				
Average Absorptivity		0.6					0.6					0.6					0.6				
RTTV _{Wall} at each facade		9.08 W/m ²					5.72 W/m ²					7.10 W/m ²					6.71 W/m ²				
Overall RTTV _{Wall}		7.85 W/m ²																			

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		429.9 m ²								
Total Skylight Area		N/A m ²								
Heat Conduction	Roof	2.63 W/m ²								
	Skylight	N/A 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 type="checkbox"/> No								
External Shading		<input type="checkbox"/> Yes <input type="checkbox"/> No								
Solar Radiation through Glazing		N/A W/m ²								
Average Absorptivity (roof)		0.8								
Overall RTTV _{Roof}		2.63 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.