

RTTV Summary Sheet

Address: Block 1, Ming Wah Dai Ha, 1-25 Ah Kung Ngam Road, Shau Kei Wan, Hong Kong		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)		

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				South-West				South-East				North-East				
Wall Orientation Factor		0.965				1.092				1.051				0.924				
Total External Wall Area (Residential Units)		389.9 m ²	Window to Wall Ratio			873.5 m ²	Window to Wall Ratio			706.6 m ²	Window to Wall Ratio			873.5 m ²	Window to Wall Ratio			
Total Window Area		15.95 m ²	= 0.041			315.38 m ²	= 0.361			93.84 m ²	= 0.133			315.38 m ²	= 0.361			
Heat Conduction	Opaque Wall	4.25 W/m ²				3.2 W/m ²				4.18 W/m ²				2.71 W/m ²				
	Window	0.14 W/m ²				1.36 W/m ²				0.48 W/m ²				1.15 W/m ²				
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 15.95 m ²	SC= 0.95	VLT= 89.3% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 315.38 m ²	SC= 0.95	VLT= 89.3% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 93.84 m ²	SC= 0.95	VLT= 89.3% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 315.38 m ²	SC= 0.95	VLT= 89.3% ER= 7 %	
		<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 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				<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 Glazing		1.57 W/m ²				15.64 W/m ²				5.54 W/m ²				13.23 W/m ²				
Average Absorptivity		0.3				0.3				0.3				0.3				
RTTV _{wall} at each facade		5.95 W/m ²				20.2 W/m ²				10.2 W/m ²				17.09 W/m ²				
Overall RTTV _{wall}		<u>Refer to page 2 for continuous</u> 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"/> 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= %	Refer to Page 2				
Double Glazing		<input type="checkbox"/> Yes <input type="checkbox"/> No									
External Shading		<input checked="" type="checkbox"/> Yes <input 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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No. of Storeys (Residential Units)		

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				East				South				West				
Wall Orientation Factor		0.79				1.072				1.092				1.131				
Total External Wall Area (Residential Units)		2121.3 m ²		Window to Wall Ratio = 0.185		2581.6 m ²		Window to Wall Ratio = 0.142		2496.5 m ²		Window to Wall Ratio = 0.147		2036.2 m ²		Window to Wall Ratio = 0.181		
Total Window Area		392.23 m ²				365.91 m ²				365.91 m ²				368.66 m ²				
Heat Conduction	Opaque Wall	2.95 W/m ²				4.22 W/m ²				4.28 W/m ²				4.25 W/m ²				
	Window	0.5 W/m ²				0.53 W/m ²				0.55 W/m ²				0.71 W/m ²				
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 392.23 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 365.91 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 365.91 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 368.66 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	
		<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 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				<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 Glazing		5.79 W/m ²				6.03 W/m ²				6.35 W/m ²				8.12 W/m ²				
Average Absorptivity		0.3				0.3				0.3				0.3				
RTTV _{wall} at each facade		9.25 W/m ²				10.77 W/m ²				11.18 W/m ²				13.08 W/m ²				
Overall RTTV _{wall}		11.92 W/m ²																

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		254.5 m ²				
Total Skylight Area		0 m ²				
Heat Conduction	Roof	1.69 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}		1.69 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.

RTTV Summary Sheet

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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)		

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				South-West				South-East				North-East			
Wall Orientation Factor		0.965				1.092				1.051				0.924			
Total External Wall Area (Residential Units)		1079.5 m ²	Window to Wall Ratio = 0.097			855.0 m ²	Window to Wall Ratio = 0.367			479.9 m ²	Window to Wall Ratio = 0.042			855.0 m ²	Window to Wall Ratio = 0.367		
Total Window Area		105.05 m ²				313.88 m ²				20.15 m ²				313.88 m ²			
Heat Conduction	Opaque Wall	4.00 W/m ²				3.17 W/m ²				4.62 W/m ²				2.68 W/m ²			
	Window	0.32 W/m ²				1.39 W/m ²				0.15 W/m ²				1.17 W/m ²			
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 105.05 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 313.88 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 20.15 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 313.88 m ²	SC= 0.95	VLT= 89.34% ER= 7 %
		<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 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				<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			
	Sidfin	<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		3.72 W/m ²				15.9 W/m ²				1.75 W/m ²				13.45 W/m ²			
Average Absorptivity		0.3				0.3				0.3				0.3			
RTTV _{wall} at each facade		8.05 W/m ²				20.46 W/m ²				6.52 W/m ²				17.31 W/m ²			
Overall RTTV _{wall}		Refer to page 2 for continuous 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"/> 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		W/m ²									
Average Absorptivity (roof)		W/m ²									
Overall RTTV _{roof}		W/m ²									

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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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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)		

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			East			South			West						
Wall Orientation Factor		0.79			1.072			1.092			1.131						
Total External Wall Area (Residential Units)		2316.3 m ²	Window to Wall Ratio = 0.158		1882.8 m ²	Window to Wall Ratio = 0.201		1874.7 m ²	Window to Wall Ratio = 0.197		2300.8 m ²	Window to Wall Ratio = 0.163					
Total Window Area		365.69 m ²			378.68 m ²			368.41 m ²			375.8 m ²						
Heat Conduction	Opaque Wall	3.05 W/m ²			3.93 W/m ²			4.03 W/m ²			4.34 W/m ²						
	Window	0.43 W/m ²			0.75 W/m ²			0.74 W/m ²			0.64 W/m ²						
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 365.69 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 378.68 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 368.41 m ²	SC= 0.95	VLT= 89.34% ER= 7 %	<input checked="" type="checkbox"/> Reflective	Area= 375.8 m ²	SC= 0.95	VLT= 89.34% ER= 7 %
		<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 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			<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 Glazing		4.95 W/m ²			8.55 W/m ²			8.51 W/m ²			7.33 W/m ²						
Average Absorptivity		0.3			0.3			0.3			0.3						
RTTV _{wall} at each facade		8.43 W/m ²			13.23 W/m ²			13.28 W/m ²			12.31 W/m ²						
Overall RTTV _{wall}					12.17 W/m ²												

Table 3

RTTV_{Roof}

Roof Orientation Factor		2.16	
Total Roof Area (Residential Units)		241.9 m ²	
Total Skylight Area		0 m ²	
Heat Conduction	Roof	1.69 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}		1.69 W/m ²	

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Notes :

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