

RTTV Summary Sheet

Address: Tower 1, Proposed Residential Development at Lot No. 2128 In D.D. 121 at Junction of Ping Kwai Road and Ping Pak Lane, Ping Shan, Yuen Long		BD Ref. No. BD2/9199/17
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)	4	

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		South				East				West				North				
Wall Orientation Factor		0.975				1.072				1.131				0.79				
Total External Wall Area (Residential Units)		515.22 m ²		Window to Wall Ratio = 0.49		78.62 m ²		Window to Wall Ratio = 0.09		95.58 m ²		Window to Wall Ratio = 0.10		165.14 m ²		Window to Wall Ratio = 0.20		
Total Window Area		250.86 m ²				7.44 m ²				9.91 m ²				33.55 m ²				
Heat Conduction	Opaque Wall	4.20 W/m ²				5.23 W/m ²				5.36 W/m ²				4.86 W/m ²				
	Window	1.57 W/m ²				0.34 W/m ²				0.39 W/m ²				0.53 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 checked="" type="checkbox"/> Tinted	Area= 251 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 7.4 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 9.9 m ²	SC= 0.49	VLT= 51 %	ER= 14 %		
		<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Sidfin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Solar Radiation through Glazing		7.96 W/m ²				2.08 W/m ²				2.40 W/m ²				3.28 W/m ²				
Average Absorptivity		0.78				0.63				0.63				0.74				
RTTV _{Wall} at each facade		13.73 W/m ²				7.64 W/m ²				8.15 W/m ²				8.67 W/m ²				
Overall RTTV _{Wall}		11.56 W/m ²																

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		299.93 m ²				
Total Skylight Area		0.00 m ²				
Heat Conduction	Roof	2.56 W/m ²				
	Skylight	0.00 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		0.00 W/m ²				
Average Absorptivity (roof)		0.70				
Overall RTTV _{Roof}		2.56 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.

RTTV Summary Sheet

Address: House 1-3, Proposed Residential Development at Lot No. 2128 In D.D. 121 at Junction of Ping Kwai Road and Ping Pak Lane, Ping Shan, Yuen Long		BD Ref. No. BD2/9199/17
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)	3	

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 East				South East				South West			
Wall Orientation Factor		0.965				0.924				1.051				1.092			
Total External Wall Area (Residential Units)		232.56 m ²		Window to Wall Ratio = 0.80		95.45 m ²		Window to Wall Ratio = 0.05		246.40 m ²		Window to Wall Ratio = 0.37		128.45 m ²		Window to Wall Ratio = 0.05	
Total Window Area		185.84 m ²				4.80 m ²				91.37 m ²				6.54 m ²			
Heat Conduction	Opaque Wall	1.06 W/m ²				6.36 W/m ²				4.68 W/m ²				6.04 W/m ²			
	Window	2.55 W/m ²				0.15 W/m ²				1.29 W/m ²				0.18 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 checked="" type="checkbox"/> Tinted	Area= 186 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 4.8 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 91 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	
		<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		15.78 W/m ²				0.95 W/m ²				7.97 W/m ²				1.14 W/m ²			
Average Absorptivity		0.62				0.68				0.70				0.64			
RTTV _{Wall} at each facade		19.39 W/m ²				7.46 W/m ²				13.95 W/m ²				7.36 W/m ²			
Overall RTTV _{Wall}		13.66 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		257.87 m ²				
Total Skylight Area		0.00 m ²				
Heat Conduction	Roof	2.50 W/m ²				
	Skylight	0.00 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		0.00 W/m ²				
Average Absorptivity (roof)		0.70				
Overall RTTV _{Roof}		2.50 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.

RTTV Summary Sheet

Address: House 5-9, Proposed Residential Development at Lot No. 2128 In D.D. 121 at Junction of Ping Kwai Road and Ping Pak Lane, Ping Shan, Yuen Long		BD Ref. No. BD2/9199/17
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)	3	

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 East				South East				South West							
Wall Orientation Factor		0.965				0.924				1.051				1.092							
Total External Wall Area (Residential Units)		159.43 m ²		Window to Wall Ratio = 0.04		316.54 m ²		Window to Wall Ratio = 0.80		132.00 m ²		Window to Wall Ratio = 0.04		384.50 m ²		Window to Wall Ratio = 0.28					
Total Window Area		6.54 m ²				253.08 m ²				4.80 m ²				107.67 m ²							
Heat Conduction	Opaque Wall	5.84 W/m ²				1.30 W/m ²				7.73 W/m ²				7.33 W/m ²							
	Window	0.13 W/m ²				2.44 W/m ²				0.13 W/m ²				1.01 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	Area= 6.5 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 253 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 4.8 m ²	SC= 0.49	VLT= 51 %	ER= 14 %	<input checked="" type="checkbox"/> Tinted	Area= 108 m ²	SC= 0.49	VLT= 51 %	ER= 14 %
		<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		<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		<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		<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		<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		<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		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		0.81 W/m ²				15.11 W/m ²				0.78 W/m ²				6.26 W/m ²							
Average Absorptivity		0.65				0.62				0.68				0.65							
RTTV _{Wall} at each facade		6.78 W/m ²				18.86 W/m ²				8.64 W/m ²				14.60 W/m ²							
Overall RTTV _{Wall}		13.91 W/m ²																			

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		397.86 m ²					
Total Skylight Area		0.00 m ²					
Heat Conduction	Roof	2.50 W/m ²					
	Skylight	0.00 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		0.00 W/m ²					
Average Absorptivity (roof)		0.70					
Overall RTTV _{Roof}		2.50 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.