

RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

Address: Proposed Site C1 Development at Area 86, TKOTL RP, Tseung Kwan O, New Territories		BD Ref. No. 2 / 7192 / 97 / 4(C1)
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)	56 Storeys (Tower 1 (1A & 1B))	

Table 1

Deemed to Satisfy RTTV _{Wall}										
Facade Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										N/A
Average Shading Coefficient of Facade										
Visible Light Transmittance	%	%	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%	%	%

Table 2 (Part 1 of 2)

RTTV _{Wall}																			
Facade Orientation Facing		Northeast					East					Southeast				South			
Wall Orientation Factor		0.924					1.072					1.051				0.975			
Total External Wall Area (Residential Units)		2456.01 m ²		Window to Wall Ratio = 0.692			2297.73 m ²		Window to Wall Ratio = 0.064			838.74 m ²		Window to Wall Ratio = 0.059		7746.55 m ²		Window to Wall Ratio = 0.550	
Total Window Factor		1700.40 m ²					145.98 m ²					49.88 m ²				4257.21 m ²			
Heat Conduction	Opaque Wall	1.20 W/m ²					8.41 W/m ²					8.46 W/m ²				2.64 W/m ²			
	Window	1.13 W/m ²					0.07 W/m ²					0.23 W/m ²				0.86 W/m ²			
Window	Glass Type	W-F1	Area= 1225.62 m ²	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= 145.98 m ²	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= m ²	SC=	VLT= % ER= %	W-F1	Area= 3307.66 m ²	SC= 0.35	VLT= 53 % ER= 14 %		
		W-F3	Area= 474.78 m ²	SC= 0.68	VLT= 50 % ER= 6 %	W-F3	Area= m ²	SC=	VLT= % ER= %	W-F3	Area= m ²	SC=	VLT= % ER= %	W-F3	Area= 949.55 m ²	SC= 0.68	VLT= 50 % ER= 6 %		
		W-F4	Area= m ²	SC=	VLT= % ER= %	W-F4	Area= m ²	SC=	VLT= % ER= %	W-F4	Area= 49.88 m ²	SC= 0.961	VLT= 88.63% ER= 7.43 %	W-F4	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	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Solar Radiation through Glazing		11.02 W/m ²					1.00 W/m ²					2.51 W/m ²				8.68 W/m ²			
Average Absorptivity		0.9					0.9					0.9				0.9			
RTTV _{Wall} at each facade		13.35 W/m ²					9.48 W/m ²					11.20 W/m ²				12.18 W/m ²			
Overall RTTV _{Wall}		11.54 W/m ²																	

Table 3

RTTV _{Roof}											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		483.01 m ²									
Total Skylight Area		N/A m ²									
Heat Conduction	Roof	0.97 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= N/A	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)		0.3									
Overall RTTV _{Roof}		0.97 W/m ²									

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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)	56 Storeys (Tower 1 (1A & 1B))	

Table 1

Deemed to Satisfy RTTV _{Wall}										
Facade Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										N/A
Average Shading Coefficient of Facade										
Visible Light Transmittance		%	%	%	%	%	%	%	%	%
External Reflectance		%	%	%	%	%	%	%	%	%

Table 2 (Part 2 of 2)

RTTV _{Wall}																					
Facade Orientation Facing		Southwest					West					Northwest			North						
Wall Orientation Factor		1.092					1.131					0.965			0.79						
Total External Wall Area (Residential Units)		395.72 m ²		Window to Wall Ratio = N/A			3567.46 m ²		Window to Wall Ratio = 0.380			834.44 m ²		Window to Wall Ratio = 0.299	4162.75 m ²		Window to Wall Ratio = 0.490				
Total Window Factor		N/A m ²		N/A			1355.96 m ²		N/A			249.38 m ²		N/A	2041.02 m ²		N/A				
Heat Conduction	Opaque Wall	9.35 W/m ²					5.05 W/m ²					5.02 W/m ²			2.65 W/m ²						
	Window	N/A W/m ²					0.64 W/m ²					0.30 W/m ²			0.64 W/m ²						
Window	Glass Type	W-F1	Area= m ²	SC=	VLT= %	ER= %	W-F1	Area= 1118.57 m ²	SC= 0.35	VLT= 53 %	ER= 14 %	W-F1	Area= 249.38 m ²	SC= 0.35	VLT= 53 %	ER= 14 %	W-F1	Area= 1566.24 m ²	SC= 0.35	VLT= 53 %	ER= 14 %
		W-F3	Area= m ²	SC=	VLT= %	ER= %	W-F3	Area= 237.39 m ²	SC= 0.68	VLT= 50 %	ER= 6 %	W-F3	Area= m ²	SC=	VLT= %	ER= %	W-F3	Area= 474.78 m ²	SC= 0.68	VLT= 50 %	ER= 6 %
		W-F4	Area= m ²	SC=	VLT= %	ER= %	W-F4	Area= m ²	SC=	VLT= %	ER= %	W-F4	Area= m ²	SC=	VLT= %	ER= %	W-F4	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input 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		N/A W/m ²					6.96 W/m ²					4.21 W/m ²			6.81 W/m ²						
Average Absorptivity		0.9					0.9					0.9			0.9						
RTTV _{Wall} at each facade		9.35 W/m ²					12.65 W/m ²					9.53 W/m ²			10.10 W/m ²						
Overall RTTV _{Wall}		11.54 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	Please refer to previous sheet								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"/> 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)											
Overall RTTV _{Roof}										W/m ²	