

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 <sub>Wall</sub>									
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 <sub>Wall</sub>																	
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 <sup>2</sup>		Window to Wall Ratio = 0.692		2297.73 m <sup>2</sup>		Window to Wall Ratio = 0.064		838.74 m <sup>2</sup>		Window to Wall Ratio = 0.059		7746.55 m <sup>2</sup>		Window to Wall Ratio = 0.550	
Total Window Factor		1700.40 m <sup>2</sup>				145.98 m <sup>2</sup>				49.88 m <sup>2</sup>				4257.21 m <sup>2</sup>			
Heat Conduction	Opaque Wall	1.20 W/m <sup>2</sup>				8.41 W/m <sup>2</sup>				8.46 W/m <sup>2</sup>				2.64 W/m <sup>2</sup>			
	Window	1.13 W/m <sup>2</sup>				0.07 W/m <sup>2</sup>				0.23 W/m <sup>2</sup>				0.86 W/m <sup>2</sup>			
Window	Glass Type	W-F1	Area= 1225.62 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= 145.98 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F1	Area= 3307.66 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %
		W-F3	Area= 474.78 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %	W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F3	Area= 949.55 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %
		W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F4	Area= 49.88 m <sup>2</sup>	SC= 0.961	VLT= 88.63% ER= 7.43 %	W-F4	Area= m <sup>2</sup>	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				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input 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		11.02 W/m <sup>2</sup>				1.00 W/m <sup>2</sup>				2.51 W/m <sup>2</sup>				8.68 W/m <sup>2</sup>			
Average Absorptivity		0.9				0.9				0.9				0.9			
RTTV <sub>Wall</sub> at each facade		13.35 W/m <sup>2</sup>				9.48 W/m <sup>2</sup>				11.20 W/m <sup>2</sup>				12.18 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		11.54 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		483.01 m <sup>2</sup>								
Total Skylight Area		N/A m <sup>2</sup>								
Heat Conduction	Roof	0.97 W/m <sup>2</sup>								
	Skylight	N/A W/m <sup>2</sup>								
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %				
		<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= N/A	VLT= %	ER= %				
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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 <sup>2</sup>								
Average Absorptivity (roof)		0.3								
Overall RTTV <sub>Roof</sub>		0.97 W/m <sup>2</sup>								

# 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 <sub>Wall</sub>									
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 (Part 2 of 2)

RTTV <sub>Wall</sub>																				
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 <sup>2</sup>		Window to Wall Ratio = N/A		3567.46 m <sup>2</sup>		Window to Wall Ratio = 0.380		834.44 m <sup>2</sup>		Window to Wall Ratio = 0.299		4162.75 m <sup>2</sup>		Window to Wall Ratio = 0.490				
Total Window Factor		N/A m <sup>2</sup>				1355.96 m <sup>2</sup>				249.38 m <sup>2</sup>				2041.02 m <sup>2</sup>						
Heat Conduction	Opaque Wall	9.35 W/m <sup>2</sup>				5.05 W/m <sup>2</sup>				5.02 W/m <sup>2</sup>				2.65 W/m <sup>2</sup>						
	Window	N/A W/m <sup>2</sup>				0.64 W/m <sup>2</sup>				0.30 W/m <sup>2</sup>				0.64 W/m <sup>2</sup>						
Window	Glass Type	W-F1	Area=	SC=	VLT= %	ER= %	W-F1	Area=	SC=	VLT= 53 %	ER= 14 %	W-F1	Area=	SC=	VLT= 53 %	ER= 14 %				
			m <sup>2</sup>				1118.57 m <sup>2</sup>	0.35		ER= 14 %		249.38 m <sup>2</sup>	0.35		ER= 14 %	1566.24 m <sup>2</sup>	0.35		ER= 14 %	
		W-F3	Area=	SC=	VLT= %	ER= %	W-F3	Area=	SC=	VLT= 50 %	ER= 6 %	W-F3	Area=	SC=	VLT= %	ER= %	W-F3	Area=	SC=	VLT= 50 %
		m <sup>2</sup>					237.39 m <sup>2</sup>	0.68		ER= 6 %		m <sup>2</sup>					474.78 m <sup>2</sup>	0.68		ER= 6 %
	W-F4	Area=	SC=	VLT= %	ER= %	W-F4	Area=	SC=	VLT= %	ER= %	W-F4	Area=	SC=	VLT= %	ER= %	W-F4	Area=	SC=	VLT= %	ER= %
	m <sup>2</sup>					m <sup>2</sup>					m <sup>2</sup>					m <sup>2</sup>				
Double Glazing	<input type="checkbox"/> Yes <input 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 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 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 <sup>2</sup>				6.96 W/m <sup>2</sup>				4.21 W/m <sup>2</sup>				6.81 W/m <sup>2</sup>						
Average Absorptivity		0.9				0.9				0.9				0.9						
RTTV <sub>Wall</sub> at each facade		9.35 W/m <sup>2</sup>				12.65 W/m <sup>2</sup>				9.53 W/m <sup>2</sup>				10.10 W/m <sup>2</sup>						
Overall RTTV <sub>Wall</sub>		11.54 W/m <sup>2</sup>																		

Table 3

RTTV <sub>Roof</sub>										
Roof Orientation Factor										
Total Roof Area (Residential Units)		m <sup>2</sup>								
Total Skylight Area		m <sup>2</sup>								
Heat Conduction	Roof	Please refer to previous sheet								W/m <sup>2</sup>
	Skylight	Please refer to previous sheet								W/m <sup>2</sup>
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	m <sup>2</sup>	SC=	VLT=	%	ER=	%	
		<input type="checkbox"/> Tinted	Area=	m <sup>2</sup>	SC=	VLT=	%	ER=	%	
		<input type="checkbox"/> Clear	Area=	m <sup>2</sup>	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 <sup>2</sup>								
Average Absorptivity (roof)										
Overall RTTV <sub>Roof</sub>		W/m <sup>2</sup>								

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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 2 (2A & 2B))	

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>									
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 <sub>Wall</sub>																	
Facade Orientation Facing		Northeast				East				Southeast				South			
Wall Orientation Factor		0.924				1.072				1.051				0.975			
Total External Wall Area (Residential Units)		632.28 m <sup>2</sup>		Window to Wall Ratio = N/A		7583.10 m <sup>2</sup>		Window to Wall Ratio = 0.573		602.18 m <sup>2</sup>		Window to Wall Ratio = 0.089		2271.06 m <sup>2</sup>		Window to Wall Ratio = 0.067	
Total Window Factor		N/A m <sup>2</sup>				4345.04 m <sup>2</sup>				53.44 m <sup>2</sup>				152.06 m <sup>2</sup>			
Heat Conduction	Opaque Wall	7.91 W/m <sup>2</sup>				2.78 W/m <sup>2</sup>				8.20 W/m <sup>2</sup>				7.61 W/m <sup>2</sup>			
	Window	N/A W/m <sup>2</sup>				1.13 W/m <sup>2</sup>				0.34 W/m <sup>2</sup>				0.07 W/m <sup>2</sup>			
Window	Glass Type	W-F1	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F1	Area= 3013.27 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F1	Area= 152.06 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %
		W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F3	Area= 1281.89 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %	W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %
		W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F4	Area= 49.88 m <sup>2</sup>	SC= 0.961	VLT= 88.63% ER= 7.43 %	W-F4	Area= 53.44 m <sup>2</sup>	SC= 0.961	VLT= 88.63% ER= 7.43 %	W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %
	Double Glazing	<input type="checkbox"/> Yes <input 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 type="checkbox"/> No				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			
	Sidelfin	<input type="checkbox"/> Yes <input type="checkbox"/> No				Sidelfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidelfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidelfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Solar Radiation through Glazing		N/A W/m <sup>2</sup>				10.79 W/m <sup>2</sup>				3.74 W/m <sup>2</sup>				0.95 W/m <sup>2</sup>			
Average Absorptivity		0.9				0.9				0.9				0.9			
RTTV <sub>Wall</sub> at each facade		7.91 W/m <sup>2</sup>				14.70 W/m <sup>2</sup>				12.28 W/m <sup>2</sup>				8.63 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		12.81 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		505.21 m <sup>2</sup>								
Total Skylight Area		N/A m <sup>2</sup>								
Heat Conduction	Roof	0.97 W/m <sup>2</sup>								
	Skylight	N/A W/m <sup>2</sup>								
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %				
		<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= N/A	VLT= %	ER= %				
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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 <sup>2</sup>								
Average Absorptivity (roof)		0.3								
Overall RTTV <sub>Roof</sub>		0.97 W/m <sup>2</sup>								

**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 2 (2A & 2B))	

Table 1

Deemed to Satisfy RTTV <sub>Wall</sub>									
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 <sub>Wall</sub>																	
Facade Orientation Facing		Southwest				West				Northwest				North			
Wall Orientation Factor		1.092				1.131				0.965				0.79			
Total External Wall Area (Residential Units)		2662.47 m <sup>2</sup>		Window to Wall Ratio = 0.692		4601.82 m <sup>2</sup>		Window to Wall Ratio = 0.481		825.84 m <sup>2</sup>		Window to Wall Ratio = N/A		3957.15 m <sup>2</sup>		Window to Wall Ratio = 0.400	
Total Window Factor		1843.34 m <sup>2</sup>				2215.59 m <sup>2</sup>				N/A m <sup>2</sup>				1583.01 m <sup>2</sup>			
Heat Conduction	Opaque Wall	1.37 W/m <sup>2</sup>				3.91 W/m <sup>2</sup>				8.26 W/m <sup>2</sup>				3.49 W/m <sup>2</sup>			
	Window	1.30 W/m <sup>2</sup>				0.90 W/m <sup>2</sup>				N/A W/m <sup>2</sup>				0.60 W/m <sup>2</sup>			
Window	Glass Type	W-F1	Area= 1368.56 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= 1690.94 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %	W-F1	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F1	Area= 1058.36 m <sup>2</sup>	SC= 0.35	VLT= 53 % ER= 14 %
		W-F3	Area= 474.78 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %	W-F3	Area= 474.78 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %	W-F3	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F3	Area= 474.78 m <sup>2</sup>	SC= 0.68	VLT= 50 % ER= 6 %
		W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F4	Area= 49.88 m <sup>2</sup>	SC= 0.961	VLT= 88.63 % ER= 7.43 %	W-F4	Area= m <sup>2</sup>	SC=	VLT= % ER= %	W-F4	Area= 49.88 m <sup>2</sup>	SC= 0.961	VLT= 88.63 % ER= 7.43 %
	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 type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				N/A <input type="checkbox"/> Yes <input 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 type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Solar Radiation through Glazing		12.66 W/m <sup>2</sup>				9.32 W/m <sup>2</sup>				N/A W/m <sup>2</sup>				6.09 W/m <sup>2</sup>			
Average Absorptivity		0.9				0.9				0.9				0.9			
RTTV <sub>Wall</sub> at each facade		15.33 W/m <sup>2</sup>				14.13 W/m <sup>2</sup>				8.26 W/m <sup>2</sup>				10.18 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		12.81 W/m <sup>2</sup>															

Table 3

RTTV <sub>Roof</sub>										
Roof Orientation Factor										
Total Roof Area (Residential Units)	m <sup>2</sup>									
Total Skylight Area	m <sup>2</sup>									
Heat Conduction	Roof	Please refer to previous sheet								W/m <sup>2</sup>
	Skylight	Please refer to previous sheet								W/m <sup>2</sup>
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %				
		<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %				
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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 <sup>2</sup>								
Average Absorptivity (Roof)										
Overall RTTV <sub>Roof</sub>		W/m <sup>2</sup>								