

RTTV Summary Sheet

Address: TSEUNG KWAN O AREA 86, SITE I, TSEUNG KWAN O, NEW TERRITORIES - TKOTL 70R.P. (TOWER1)		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)	46	

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		N				W				S				E			
Wall Orientation Factor		0.79				1.131				0.975				1.072			
Total External Wall Area (Residential Units)		6673.62 m ²				6679.67 m ²				4514.17 m ²				6626.87 m ²			
Total Window Area		1967.22 m ²				2477.69 m ²				19.62 m ²				2346.4 m ²			
Window to Wall Ratio		= 0.29				= 0.37				= 0.004				= 0.35			
Heat Conduction	Opaque Wall	3.73 W/m ²				4.25 W/m ²				9.18 W/m ²				4.25 W/m ²			
	Window	0.84 W/m ²				1.48 W/m ²				0.01 W/m ²				1.36 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= 1824.3 142.96 m ²	SC= 0.65	VLT= 50 33 %	ER= 5 %	<input checked="" type="checkbox"/> Tinted	Area= 1640.8 836.88 m ²	SC= 0.65	VLT= 50 33 %	ER= 5 %	<input checked="" type="checkbox"/> Tinted	Area= 11.18 8.44 m ²	SC= 0.65	VLT= 50 33 %	ER= 5 %	
		<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 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		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Overhang <input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Gazing		6.11 W/m ²				9.70 W/m ²				0.11 W/m ²				8.92 W/m ²			
Average Absorptivity		0.8				0.8				0.8				0.8			
RTTV _{Wall} at each facade		10.68 W/m ²				15.43 W/m ²				9.31 W/m ²				14.53 W/m ²			
Overall RTTV _{Wall}		12.76 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		490 m ²				
Total Skylight Area		0 m ²				
Heat Conduction	Roof	2.06 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)		0.5				
Overall RTTV _{Roof}		2.06 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

Address: TSEUNG KWAN O AREA 86, SITE I, TSEUNG KWAN O, NEW TERRITORIES - TKOTL 70R.P. (TOWER2)		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)	50	

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		N				W				S				E			
Wall Orientation Factor		0.79				1.131				0.975				1.072			
Total External Wall Area (Residential Units)		8378.14 m ²		Window to Wall Ratio = 0.26		7799.48 m ²		Window to Wall Ratio = 0.38		6615.12 m ²		Window to Wall Ratio = 0.32		6437.93 m ²		Window to Wall Ratio = 0.21	
Total Window Area		2143.70 m ²				2984.74 m ²				2244.09 m ²				1360.28 m ²			
Heat Conduction	Opaque Wall	4.16 W/m ²				4.09 W/m ²				4.23 W/m ²				6.34 W/m ²			
	Window	0.72 W/m ²				1.53 W/m ²				1.13 W/m ²				0.80 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= 1883.04 m ²	SC= 0.65	VLT= 53 %	ER= 5 %	<input checked="" type="checkbox"/> Tinted	Area= 2037.37 m ²	SC= 0.61	VLT= 53 %	ER= 5 %	<input checked="" type="checkbox"/> Tinted	Area= 1911.22 m ²	SC= 0.65	VLT= 53 %	ER= 5 %	
		<input type="checkbox"/> Clear	Area= 260.66 m ²	SC= 0.61	VLT= 53 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 847.37 m ²	SC= 0.61	VLT= 53 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 232.87 m ²	SC= 0.61	VLT= 53 %	ER= 5 %	
		<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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Gazing		5.28 W/m ²				9.99 W/m ²				7.02 W/m ²				5.41 W/m ²			
Average Absorptivity		0.8				0.8				0.8				0.8			
RTTV _{Wall} at each facade		10.17 W/m ²				15.61 W/m ²				12.39 W/m ²				12.55 W/m ²			
Overall RTTV _{Wall}		12.65 W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		536 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	2.06 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)		0.5					
Overall RTTV _{Roof}		2.06 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.

(9/2014)