

### RTTV Summary Sheet

Address:		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input checked="" type="checkbox"/> 3. Others, please specify : Building Services Engineer	
No. of Storeys (Residential Units)	35	

**Table 1**

Deemed to Satisfy RTTV <sub>wall</sub>								
Facade Orientation Facing	East	North	West	South	North East		South East	South West
Average Absorptivity	0.893	0.819		0.813	0.846	0.826	0.890	0.799
Average Window to Wall Ratio	0.05	0.39	0	0.41	0.30	0.37	0.08	0.45
Shading Coefficient of Glazing	0.69	0.69	NA	0.69	0.69		0.69	0.69
Average Shading Coefficient of Facade			NA	0.58	0.69		0.67	0.57
Visible Light Transmittance	67 %	59 %	NA %	62 %	%	62 %	66 %	62 %
External Reflectance	5 %	17 %	NA %	13 %	5 %	14%	%	14 %

**Table 2**

RTTV <sub>wall</sub>																					
Facade Orientation Facing		East					North					West				South					
Wall Orientation Factor		1.072					0.790									0.975					
Total External Wall Area (Residential Units)		812.44 m <sup>2</sup>		Window to Wall Ratio			2437.42 m <sup>2</sup>		Window to Wall Ratio			567.17 m <sup>2</sup>		Window to Wall Ratio				8.6445 m <sup>2</sup>		Window to Wall Ratio	
Total Window Area		40.62 m <sup>2</sup>		= 0.05			950.59 m <sup>2</sup>		= 0.39			0 m <sup>2</sup>		= 0.00		8.6445 m <sup>2</sup>		= 0.41			
Heat Conduction	Opaque Wall	9.68 W/m <sup>2</sup>					5.28 W/m <sup>2</sup>					7.67 W/m <sup>2</sup>				6.33 W/m <sup>2</sup>					
	Window	W/m <sup>2</sup>					0.70 W/m <sup>2</sup>					0 W/m <sup>2</sup>				1.06 W/m <sup>2</sup>					
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %
	<input checked="" type="checkbox"/> Clear	Area= m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input checked="" type="checkbox"/> Clear	Area= 950 m <sup>2</sup>	SC= 0.52	VLT= 59 %	ER= 17 %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input checked="" type="checkbox"/> Clear	Area= 8.64 m <sup>2</sup>	SC= 0.58	VLT= 62 %	ER= 13 %	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					<input 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 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 type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Solar Radiation through Gazing		1.33 W/m <sup>2</sup>					5.75 W/m <sup>2</sup>					W/m <sup>2</sup>				7.38 W/m <sup>2</sup>					
Average Absorptivity		0.893										0.9				0.813					
RTTV <sub>wall</sub> at each facade		11.18 W/m <sup>2</sup>					11.73 W/m <sup>2</sup>					10.41 W/m <sup>2</sup>				14.77 W/m <sup>2</sup>					
Overall RTTV <sub>wall</sub>		13.44 W/m <sup>2</sup>																			

**Table 3**

RTTV <sub>Roof</sub>						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		465.28 m <sup>2</sup>				
Total Skylight Area		0.00 m <sup>2</sup>				
Heat Conduction	Roof	2.81 W/m <sup>2</sup>				
	Skylight	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		0.00 W/m <sup>2</sup>				
Average Absorptivity (roof)		0.70				
Overall RTTV <sub>Roof</sub>		2.81 W/m <sup>2</sup>				

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 ( Sheet 2 of 2 )

Address:		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input checked="" type="checkbox"/> 3. Others, please specify : Building Services Engineer	
No. of Storeys (Residential Units)	35	

**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**

RTTV <sub>wall</sub>																
Facade Orientation Facing		North East				North West				South East						
Wall Orientation Factor		0.924				0.965				1.051				1.092		
Total External Wall Area (Residential Units)		186.91 m <sup>2</sup>		Window to Wall Ratio		2350.01 m <sup>2</sup>		Window to Wall Ratio		m <sup>2</sup>		Window to Wall Ratio		1425.66 m <sup>2</sup>		
Total Window Area		m <sup>2</sup>		=		869.50 m <sup>2</sup>		= 0.37		m <sup>2</sup>		= 0.08		641.55 m <sup>2</sup>		
Heat Conduction	Opaque Wall	7.27 W/m <sup>2</sup>				6.37 W/m <sup>2</sup>				10.57 W/m <sup>2</sup>				6.41 W/m <sup>2</sup>		
	Window	0.92 W/m <sup>2</sup>				0.93 W/m <sup>2</sup>				0.26 W/m <sup>2</sup>				1.26 W/m <sup>2</sup>		
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Clear	Area= 57.05 m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= %	<input checked="" type="checkbox"/> Clear	Area= 869.5 m <sup>2</sup>	SC= 0.57	VLT= 14 %	ER= %	<input type="checkbox"/> Clear	Area= 91 m <sup>2</sup>	SC= 0.67	VLT= 66 %	ER= 6 %
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input 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 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 type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Solar Radiation through Gazing		5.90 W/m <sup>2</sup>				6.71 W/m <sup>2</sup>				1.54 W/m <sup>2</sup>				9.05 W/m <sup>2</sup>		
Average Absorptivity		0.846				0.826				0.890				0.799		
RTTV <sub>wall</sub> at each facade		14.10 W/m <sup>2</sup>				14.00 W/m <sup>2</sup>				12.36 W/m <sup>2</sup>				16.72 W/m <sup>2</sup>		
Overall RTTV <sub>wall</sub>		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	W/m <sup>2</sup>				
	Skylight	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>				

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: WEST RAIL YUEN LONG STATION PROPERTY DEVELOPMENT YUEN LONG TOWN LOT NO. 510 - Tower 2	BD Ref. No.
Building Type: Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input checked="" type="checkbox"/> 3. Others, please specify : Building Services Engineer
No. of Storeys (Residential Units)	35

**Table 1**

Deemed to Satisfy RTTV <sub>wall</sub>								
Facade Orientation Facing	North East	North West	South East	South West				
Average Absorptivity	0.848	0.838	0.842	0.838				
Average Window to Wall Ratio	0.26	0.33	0.32	0.32				
Shading Coefficient of Glazing	0.69	0.69	0.69	0.69				
Average Shading Coefficient of Facade	0.64	0.64	0.64	0.54				
Visible Light Transmittance	65 %	65 %	65 %	60 %	%	%	%	%
External Reflectance	9 %	9 %	9 %	16 %	%	%	%	%

**Table 2**

RTTV <sub>wall</sub>																					
Facade Orientation Facing		North East				North West				South East				South West							
Wall Orientation Factor		0.924				0.965				1.051				1.092							
Total External Wall Area (Residential Units)		3284.7 m <sup>2</sup>		Window to Wall Ratio		3061.45 m <sup>2</sup>		Window to Wall Ratio		3299.00 m <sup>2</sup>		Window to Wall Ratio		2874.01 m <sup>2</sup>		Window to Wall Ratio					
Total Window Area		854.02 m <sup>2</sup>		= 0.26		1014.50 m <sup>2</sup>		= 0.33		1055.67 m <sup>2</sup>		= 0.32		919.68 m <sup>2</sup>		= 0.32					
Heat Conduction	Opaque Wall	6.83 W/m <sup>2</sup>				6.61 W/m <sup>2</sup>				7.67 W/m <sup>2</sup>				7.64 W/m <sup>2</sup>							
	Window	0.73 W/m <sup>2</sup>				0.87 W/m <sup>2</sup>				1.00 W/m <sup>2</sup>				0.84 W/m <sup>2</sup>							
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Clear	Area= 854.0 m <sup>2</sup>	SC= 0.64	VLT= 65 %	ER= 9 %	<input checked="" type="checkbox"/> Clear	Area= 1014 m <sup>2</sup>	SC= 0.64	VLT= 65 %	ER= 9 %	<input type="checkbox"/> Clear	Area= 1055 m <sup>2</sup>	SC= 0.64	VLT= 65 %	ER= 9 %	<input checked="" type="checkbox"/> Clear	Area= 919.7 m <sup>2</sup>	SC= 0.54	VLT= 60 %	ER= 16 %
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input 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 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 type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Solar Radiation through Gazing		6.83 W/m <sup>2</sup>				6.04 W/m <sup>2</sup>				6.42 W/m <sup>2</sup>				6.23 W/m <sup>2</sup>							
Average Absorptivity		0.848				0.838				0.842				0.838							
RTTV <sub>wall</sub> at each facade		12.44 W/m <sup>2</sup>				13.53 W/m <sup>2</sup>				15.09 W/m <sup>2</sup>				14.71 W/m <sup>2</sup>							
Overall RTTV <sub>wall</sub>		13.92 W/m <sup>2</sup>																			

**Table 3**

RTTV <sub>Roof</sub>						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		479.94 m <sup>2</sup>				
Total Skylight Area		0.00 m <sup>2</sup>				
Heat Conduction	Roof	2.81 W/m <sup>2</sup>				
	Skylight	0.00 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		0.00 W/m <sup>2</sup>				
Average Absorptivity (roof)		0.70				
Overall RTTV <sub>Roof</sub>		2.81 W/m <sup>2</sup>				

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: WEST RAIL YUEN LONG STATION PROPERTY DEVELOPMENT YUEN LONG TOWN LOT NO. 510 - Tower 3		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input type="checkbox"/> 3. Others, please specify: Building Services Engineer	
No. of Storeys (Residential Units)		

**Table 1**

Deemed to Satisfy RTTV <sub>wall</sub>								
Facade Orientation Facing	East	North	West	South	Northeast	Northwest	Southeast	Southwest
Average Absorptivity	0.80	0.68	0.82	0.50	0.53	0.45	0.87	0.80
Average Window to Wall Ratio	0.09	0.22	0.08	0.39	0.34	0.41	0.03	0.09
Shading Coefficient of Glazing	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Average Shading Coefficient of Facade	0.58	0.69	0.62	0.62	0.64	0.65	0.58	0.69
Visible Light Transmittance	67 %	67 %	67 %	67 %	67 %	67 %	67 %	67 %
External Reflectance	5 %	5 %	5 %	5 %	5 %	5 %	5 %	5 %

**Table 2**

RTTV <sub>wall</sub>																			
Facade Orientation Facing		East				North				West				South					
Wall Orientation Factor		1.072				0.790				1.131				0.975					
Total External Wall Area (Residential Units)		455.33 m <sup>2</sup>		Window to Wall Ratio		993.24 m <sup>2</sup>		Window to Wall Ratio		681.16 m <sup>2</sup>		Window to Wall Ratio		2639.52 m <sup>2</sup>		Window to Wall Ratio			
Total Window Area		43.01 m <sup>2</sup>		=0.09		213.67 m <sup>2</sup>		= 0.22		54.53 m <sup>2</sup>		= 0.08		1023.38 m <sup>2</sup>		= 0.39			
Heat Conduction	Opaque Wall	9.66 W/m <sup>2</sup>				6.96 W/m <sup>2</sup>				10.61 W/m <sup>2</sup>				6.31 W/m <sup>2</sup>					
	Window	0.27 W/m <sup>2</sup>				0.56 W/m <sup>2</sup>				0.26 W/m <sup>2</sup>				1.10 W/m <sup>2</sup>					
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	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= 43.01m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 213.67m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 54.53m <sup>2</sup>	SC= 0.67	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 1023.38m <sup>2</sup>	SC= 0.67
Double Glazing		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No					
External Shading		Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No					
		Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Gazing		2.10 W/m <sup>2</sup>				4.14 W/m <sup>2</sup>				1.81 W/m <sup>2</sup>				7.51 W/m <sup>2</sup>					
Average Absorptivity		0.80				0.68				0.82				0.50					
RTTV <sub>wall</sub> at each facade		12.04 W/m <sup>2</sup>				11.67 W/m <sup>2</sup>				12.68 W/m <sup>2</sup>				14.92 W/m <sup>2</sup>					
Overall RTTV <sub>wall</sub>		13.88 W/m <sup>2</sup>																	

**Table 3**

RTTV <sub>Roof</sub>						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		576.81 m <sup>2</sup>				
Total Skylight Area		0.00 m <sup>2</sup>				
Heat Conduction	Roof	2.81 W/m <sup>2</sup>				
	Skylight	0.00 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>		2.81 W/m <sup>2</sup>				

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: WEST RAIL YUEN LONG STATION PROPERTY DEVELOPMENT YUEN LONG TOWN LOT NO. 510 - Tower 5	BD Ref. No.
Building Type: Residential	
RTTV calculated by:	<input type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify: Building Services Engineer
No. of Storeys (Residential Units)	

**Table 1**

Deemed to Satisfy RTTV <sub>Wall</sub>								
Facade Orientation Facing	East	North	West	South				
Average Absorptivity	0.50	0.54	0.80	0.60				
Average Window to Wall Ratio	0.39	0.35	0.10	0.30				
Shading Coefficient of Glazing	0.67	0.67	0.67	0.67				
Average Shading Coefficient of Facade	0.63	0.63	0.64	0.63				
Visible Light Transmittance	67 %	67 %	67 %	67 %	%	%	%	%
External Reflectance	5 %	5 %	5 %	5 %	%	%	%	%

**Table 2**

RTTV <sub>Wall</sub>																	
Facade Orientation Facing		East				North				West				South			
Wall Orientation Factor		1.072				0.790				1.131				0.975			
Total External Wall Area (Residential Units)		2003.94 m <sup>2</sup>		Window to Wall Ratio		2373.42 m <sup>2</sup>		Window to Wall Ratio		954.56 m <sup>2</sup>		Window to Wall Ratio		2216.90 m <sup>2</sup>		Window to Wall Ratio	
Total Window Area		782.93 m <sup>2</sup>		= 0.39		826.48 m <sup>2</sup>		= 0.35		91.41 m <sup>2</sup>		= 0.10		654.6 m <sup>2</sup>		= 0.30	
Heat Conduction	Opaque Wall	6.90 W/m <sup>2</sup>				5.50 W/m <sup>2</sup>				10.31 W/m <sup>2</sup>				7.42 W/m <sup>2</sup>			
	Window	1.25 W/m <sup>2</sup>				0.81 W/m <sup>2</sup>				0.33 W/m <sup>2</sup>				0.85 W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	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= 43.01 m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 213.67 m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 54.53 m <sup>2</sup>	SC= 0.67	VLT= 67 %	ER= 5 %	
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
External Shading	Overhang	<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Sidfin	<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Gazing		8.61 W/m <sup>2</sup>				5.74 W/m <sup>2</sup>				2.48 W/m <sup>2</sup>				5.62 W/m <sup>2</sup>			
Average Absorptivity		0.50				0.54				0.80				0.60			
RTTV <sub>Wall</sub> at each facade		16.76 W/m <sup>2</sup>				12.05 W/m <sup>2</sup>				13.12 W/m <sup>2</sup>				13.89 W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		13.98 W/m <sup>2</sup>															

**Table 3**

RTTV <sub>Roof</sub>						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		672.3 m <sup>2</sup>				
Total Skylight Area		0.00 m <sup>2</sup>				
Heat Conduction	Roof	2.81 W/m <sup>2</sup>				
	Skylight	0.00 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)		W/m <sup>2</sup>				
Overall RTTV <sub>Roof</sub>		2.81 W/m <sup>2</sup>				

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:		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	<input 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 <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**

RTTV <sub>wall</sub>																	
Facade Orientation Facing		Northeast				Northwest				Southeast				Southwest			
Wall Orientation Factor		0.924				0.965				1.051				1.092			
Total External Wall Area (Residential Units)		2105.66 m <sup>2</sup>		Window to Wall Ratio		1941.64 m <sup>2</sup>		Window to Wall Ratio		1169.1 m <sup>2</sup>		Window to Wall Ratio		763.22 m <sup>2</sup>		Window to Wall Ratio	
Total Window Area		709.8 m <sup>2</sup>		= 0.34		786.77 m <sup>2</sup>		= 0.41		37.63 m <sup>2</sup>		= 0.03		68.35 m <sup>2</sup>		= 0.09	
Heat Conduction	Opaque Wall	6.49 W/m <sup>2</sup>				5.96 W/m <sup>2</sup>				10.19 W/m <sup>2</sup>				10.80 W/m <sup>2</sup>			
	Window	0.94 W/m <sup>2</sup>				1.21 W/m <sup>2</sup>				0.09 W/m <sup>2</sup>				0.32 W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	<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"/> Tinted	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= 43.01 m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 213.67 m <sup>2</sup>	SC= 0.69	VLT= 67 %	ER= 5 %	<input type="checkbox"/> Clear	Area= 54.53 m <sup>2</sup>	SC= 0.67	VLT= 67 %	ER= 5 %	
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
	External Shading	Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No				Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Glazing		6.64 W/m <sup>2</sup>				8.81 W/m <sup>2</sup>				0.80 W/m <sup>2</sup>				2.66 W/m <sup>2</sup>			
Average Absorptivity		0.53				0.45				0.87				0.80			
RTTV <sub>wall</sub> at each facade		14.07 W/m <sup>2</sup>				15.98 W/m <sup>2</sup>				11.08 W/m <sup>2</sup>				13.78 W/m <sup>2</sup>			
Overall RTTV <sub>wall</sub>		13.88 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	W/m <sup>2</sup>				
	Skylight	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>				

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.