

RTTV Summary Sheet

Address: THE PROPOSED RESIDENTIAL DEVELOPMENT AT LOHAS PARK, PACKAGE EIGHT, TSEUNG KWAN O TOWN LOT NO. 70RP, SITE H - TOWER 1	BD Ref. No. 2/7192/97/5(H)
Building Type: Residential	
RTTV calculated by:	<input type="checkbox"/> 1. Registered Professional Engineers <input checked="" type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:
No. of Storeys (Residential Units)	49

Table 1

Deemed to Satisfy RTTV _{Wall}												
Facade Orientation Facing	East			North			West			South		
Average Absorptivity	0.59			0.59			0.59			0.59		
Average Window to Wall Ratio	0.18			0.16			0.35			0.32		
Shading Coefficient of Glazing	0.63	0.62		0.63	0.62		0.63	0.62		0.63	0.62	
Average Shading Coefficient of Facade	0.54			0.57			2.53			0.52		
Visible Light Transmittance	56%			50%			56%			50%		
External Reflectance	6.0%			5.0%			6%			5%		

Table 2

RTTV _{Wall}																									
Facade Orientation Facing		East						North						West						South					
Wall Orientation Factor		1.072						0.790						1.131						0.975					
Total External Wall Area (Residential Units)		4502.99 m ²			Window to Wall Ratio = 0.18			4241.32 m ²			Window to Wall Ratio = 0.16			5116.27 m ²			Window to Wall Ratio = 0.35			4832.59 m ²			Window to Wall Ratio = 0.32		
Total Window Area		823.36 m ²						676.16 m ²						1801.43 m ²						1547.13 m ²					
Heat Conduction	Opaque Wall	7.01 W/m ²						5.31 W/m ²						5.86 W/m ²						5.30 W/m ²					
	Window	0.64 W/m ²						0.41 W/m ²						1.30 W/m ²						1.02 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= 724.12 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 398.90 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 602.25 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 537.48 m ²	SC= 0.63	VLT=56% ER= 6.0%					
		<input checked="" type="checkbox"/> Tinted	Area= 99.23 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 277.26 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 1199.18 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 137.59 m ²	SC= 0.62	VLT=50% ER= 5.0%					
		<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					
External Shading	Overhang	<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					
	Sidefin	<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Solar Radiation through Gazing		4.46 W/m ²						3.02 W/m ²						8.60 W/m ²						6.77 W/m ²					
Average Absorptivity		0.59						0.59						0.59						0.59					
RTTV _{Wall} at each facade		12.11 W/m ²						8.74 W/m ²						15.76 W/m ²						13.09 W/m ²					
Overall RTTV _{Wall}		12.60						12.60						12.60						12.60					

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		437.20 m ²								
Total Skylight Area		0 m ²								
Heat Conduction	Roof	1.94 W/m ²								
	Skylight	0 W/m ²								
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %
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 W/m ²								
Average Absorptivity (roof)		0.5								
Overall RTTV _{Roof}		1.94 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: THE PROPOSED RESIDENTIAL DEVELOPMENT AT LOHAS PARK, PACKAGE EIGHT, TSEUNG KWAN O TOWN LOT NO. 70RP, SITE H - TOWER 2		BD Ref. No. 2/7192/97/5(H)
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers <input checked="" type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	54	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	East		North		West		South		
Average Absorptivity	0.59		0.59		0.59		0.59		
Average Window to Wall Ratio	0.17		0.20		0.33		0.31		
Shading Coefficient of Glazing	0.63	0.62	0.63	0.62	0.63	0.62	0.63	0.62	
Average Shading Coefficient of Facade	0.54		0.57		0.52		0.51		
Visible Light Transmittance	56%	50%	56%	50%	56%	50%	56%	50%	
External Reflectance	6.0%	5.0%	6.0%	5.0%	6.00%	5.00%	6.00%	5.00%	

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		East				North				West				South							
Wall Orientation Factor		1.072				0.790				1.131				0.975							
Total External Wall Area (Residential Units)		5130.36 m ²		Window to Wall Ratio = 0.17		3944.28 m ²		Window to Wall Ratio = 0.20		5236.07 m ²		Window to Wall Ratio = 0.33		5121.04 m ²		Window to Wall Ratio = 0.31					
Total Window Area		878.31 m ²				774.38 m ²				1716.41 m ²				1581.98 m ²							
Heat Conduction	Opaque Wall	7.11 W/m ²				5.08 W/m ²				6.08 W/m ²				5.39 W/m ²							
	Window	0.60 W/m ²				0.51 W/m ²				1.21 W/m ²				0.98 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= 770.74 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 460.17 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 827.69 m ²	SC= 0.63	VLT=56% ER= 6.0%		<input checked="" type="checkbox"/> Tinted	Area= 582.91 m ²	SC= 0.63	VLT=56% ER= 6.0%	
		<input checked="" type="checkbox"/> Tinted	Area= 107.57 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 314.22 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 888.73 m ²	SC= 0.62	VLT=50% ER= 5.0%		<input checked="" type="checkbox"/> Tinted	Area= 999.07 m ²	SC= 0.62	VLT=50% ER= 5.0%	
		<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							
External Shading	Overhang	<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							
	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		4.14 W/m ²				3.67 W/m ²				8.01 W/m ²				6.42 W/m ²							
Average Absorptivity		0.59				0.59				0.59				0.59							
RTTV _{Wall} at each facade		11.85 W/m ²				9.26 W/m ²				15.30 W/m ²				12.79 W/m ²							
Overall RTTV _{Wall}						12.50 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		437.20 m ²				
Total Skylight Area		0 m ²				
Heat Conduction	Roof	1.94 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 type="checkbox"/> No					
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing		0 W/m ²				
Average Absorptivity (roof)		0.5				
Overall RTTV _{Roof}		1.94 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: THE PROPOSED RESIDENTIAL DEVELOPMENT AT LOHAS PARK, PACKAGE EIGHT, TSEUNG KWAN O TOWN LOT NO. 70RP, SITE H - TOWER 3		BD Ref. No. 2/7192/97/5(H)
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers <input checked="" type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	55	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	East		North		West		South		
Average Absorptivity	0.59		0.59		0.59		0.63		
Average Window to Wall Ratio	0.16		0.18		0.34		0.28		
Shading Coefficient of Glazing	0.63	0.62	0.63	0.62	0.63	0.62	0.63	0.62	
Average Shading Coefficient of Facade	0.54		0.56		0.52		0.51		
Visible Light Transmittance	56%	50%	56%	50%	56%	50%	56%	50%	
External Reflectance	6.0%	5.0%	6.0%	5.0%	6%	5%	6%	5%	

Table 2

RTTV _{Wall}																					
Facade Orientation Facing	East				North				West				South								
Wall Orientation Factor	1.072				0.790				1.131				0.975								
Total External Wall Area (Residential Units)	5408.95 m ²		Window to Wall Ratio = 0.16		4969.29 m ²		Window to Wall Ratio = 0.18		5424.17 m ²		Window to Wall Ratio = 0.34		6054.13 m ²		Window to Wall Ratio = 0.28						
Total Window Area	880.74 m ²				911.14 m ²				1839.82 m ²				1709.26 m ²								
Heat Conduction	Opaque Wall		7.18 W/m ²		5.16 W/m ²		5.98 W/m ²		5.60 W/m ²		Window		0.57 W/m ²		0.47 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= 772.09 m ²	SC= 0.63	VLT=56% ER= 6.0%	<input checked="" type="checkbox"/> Tinted	Area= 525.72 m ²	SC= 0.63	VLT=56% ER= 6.0%	<input checked="" type="checkbox"/> Tinted	Area= 746.24 m ²	SC= 0.63	VLT=56% ER= 6.0%	<input checked="" type="checkbox"/> Tinted	Area= 710.05 m ²	SC= 0.63	VLT=56% ER= 6.0%				
		<input checked="" type="checkbox"/> Tinted	Area= 108.65 m ²	SC= 0.62	VLT=50% ER= 5.0%	<input checked="" type="checkbox"/> Tinted	Area= 385.42 m ²	SC= 0.62	VLT=50% ER= 5.0%	<input checked="" type="checkbox"/> Tinted	Area= 1093.58 m ²	SC= 0.62	VLT=50% ER= 5.0%	<input checked="" type="checkbox"/> Tinted	Area= 999.21 m ²	SC= 0.62	VLT=50% ER= 5.0%				
		<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						
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Sidefin <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								
Solar Radiation through Gazing	3.95 W/m ²				3.41 W/m ²				8.39 W/m ²				5.84 W/m ²								
Average Absorptivity	0.59				0.59				0.59				0.59								
RTTV _{Wall} at each facade	11.70 W/m ²				9.04 W/m ²				15.63 W/m ²				12.34 W/m ²								
Overall RTTV _{Wall}					12.24 W/m ²																

Table 3

RTTV _{Roof}						
Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	437.20 m ²					
Total Skylight Area	0 m ²					
Heat Conduction	Roof		1.94 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 type="checkbox"/> No					
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0 W/m ²					
Average Absorptivity (roof)	0.5					
Overall RTTV _{Roof}	1.94 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.