RTTV Summary Sheet-T1

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

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$_{wall}$																			
Façade Orientation Facing		North East				East				South East				South					
Wall Orientation Factor		0.924				1.072				1.051				0.975					
Total External Wall Area (Residential Units)		588.9 m²		Window to Wall Ratio =0.03		199.68 m²		Window to Wall Ratio =0		1367.42 m²		Window to Wall Ratio =0.42		969.15 m²		Window to Wall Ratio =0.53			
Total Window Area		20.02 m²				0 m²				578.51 m²				513.37 m²					
Heat Conduction	Opaque Wall	7.44 W/m²				7.55 W/m²				3.98 W/m²				3.47 W/m²					
	Window	0.04 W/m²				0 W/m²				0.5 W/m²				0.58 W/m²					
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%		
		☑ Tinted	Area= 20.02 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 578.51 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 513.37 m²	SC =0.45	VLT=52% ER=19%		
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No					
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No					
		Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No					
Solar Radiation through Glazing		0.48 W/m²				0 W/m²				6.27 W/m²				6.39 W/m²					
Average Absorptivity		0.78				0.62				0.54				0.58					
RTTV$_{wall}$ at each façade		7.95 W/m²				7.55 W/m²				10.76 W/m²				10.45 W/m²					
Overall RTTV$_{wall}$		9.92 W/m²																	

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing		2.16				
Total Roof Area (Residential Units)		159.91 m²				
Total Skylight Area		0 m²				
Heat Conduction	Roof	3.03 W/m²				
	Skylight	0W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☑ No				
	External Shading	☐ Yes ☑ No				
Solar Radiation through Glazing		0 W/m²				
Average Absorptivity (roof)		0.7				
Overall RTTV$_{Roof}$		3.03 W/m²				

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.

(9/2014)

RTTV Summary Sheet-T1

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

Table 1

Deemed to Satisfy RTTV$_{wall}$								
Faacde Orientation Facing								
Average Absorptivity								
Average Window to Wall Ratio								
Shading Coefficient of Glazing								
Average Shading Corfficient of Facade								
Visible Light Transmittance	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%

Table 2

RTTV$_{wall}$																			
Façade Orientation Facing		South West				West				North West				North					
Wall Orientation Factor		1.092				1.131				0.965				-					
Total External Wall Area (Residential Units)		1156.35 m²		Window to Wall Ratio		159.9 m²		Window to Wall Ratio		618.54 m²		Window to Wall Ratio		- m²		Window to Wall Ratio	
Total Window Area		485.59 m²		=0.42		0 m²		=0		40.04 m²		=0.06		- m²		=	
Heat Conduction	Opaque Wall	4.6 W/m²				7.28 W/m²				6.65 W/m²				- W/m²			
	Window	0.52 W/m²				0 W/m²				0.07 W/m²				- W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%		
		☑ Tinted	Area= 485.59 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 40.04 m²	SC =0.45	VLT=52% ER=19%	☐ Clear	Area= m²	SC =	VLT=% ER=%		
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☐ Yes ☐ No					
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☐ No					
		Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☐ No					
Solar Radiation through Glazing		6.46 W/m²				0 W/m²				0.71 W/m²				- W/m²					
Average Absorptivity		0.59				0.57				0.71				-					
RTTV$_{wall}$ at each façade		11.58 W/m²				7.28 W/m²				7.43 W/m²				- W/m²					
Overall RTTV$_{wall}$		9.92 W/m²																	

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing						
Total Roof Area (Residential Units)		m²				
Total Skylight Area		m²				
Heat Conduction	Roof	W/m²				
	Skylight	W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☐ No				
	External Shading	☐ Yes ☐ No				
Solar Radiation through Glazing		W/m²				
Average Absorptivity (roof)						
Overall RTTV$_{Roof}$		W/m²				

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.

(9/2014)

RTTV Summary Sheet-T2

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

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$_{wall}$																	
Façade Orientation Facing		North				North East				East				South East			
Wall Orientation Factor		0.79				0.924				1.072				1.051			
Total External Wall Area (Residential Units)		1587.3 m²	Window to Wall Ratio			180.34 m²	Window to Wall Ratio			2144.22 m²	Window to Wall Ratio			390.00 m²	Window to Wall Ratio		
Total Window Area		0 m²	=0			94.99 m²	=0.53			1126.98 m²	=0.53			20.02 m²	=0.05		
Heat Conduction	Opaque Wall	6.39 W/m²				3.08 W/m²				3.87 W/m²				6.13 W/m²			
	Window	0 W/m²				0.55 W/m²				0.63 W/m²				0.06 W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%
		☑ Tinted	Area= 0 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 94.99 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 1126.98 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 20.02 m²	SC =0.45	VLT=52% ER=19%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No			
	External Shading	Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No			
		Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No			
Solar Radiation through Glazing		0 W/m²				7.90 W/m²				8.41 W/m²				0.79 W/m²			
Average Absorptivity		0.74				0.53				0.60				0.58			
RTTV$_{wall}$ at each façade		6.39 W/m²				11.52 W/m²				12.91 W/m²				6.98 W/m²			
Overall RTTV$_{wall}$		10.80 W/m²															

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing		2.16				
Total Roof Area (Residential Units)		293.22 m²				
Total Skylight Area		0 m²				
Heat Conduction	Roof	3.03 W/m²				
	Skylight	0 W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☑ No				
	External Shading	☐ Yes ☑ No				
Solar Radiation through Glazing		0 W/m²				
Average Absorptivity (roof)		0.7				
Overall RTTV$_{Roof}$		3.03 W/m²				

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.

(9/2014)

RTTV Summary Sheet-T2

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

Table 1

Deemed to Satisfy RTTV$_{wall}$								
Faacde Orientation Facing								
Average Absorptivity								
Average Window to Wall Ratio								
Shading Coefficient of Glazing								
Average Shading Corfficient of Facade								
Visible Light Transmittance	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%

Table 2

RTTV$_{wall}$																			
Façade Orientation Facing		South				South West				West				North West					
Wall Orientation Factor		0.975				1.092				1.131				-					
Total External Wall Area (Residential Units)		1453.53 m²		Window to Wall Ratio		329.55 m²		Window to Wall Ratio		3073.20 m²		Window to Wall Ratio		- m²		Window to Wall Ratio	
Total Window Area		207.52 m²		=0.14		99.80 m²		=0.3		1369.67 m²		=0.45		- m²		=	
Heat Conduction	Opaque Wall	6.34 W/m²				5.54 W/m²				5.24 W/m²				- W/m²			
	Window	0.16 W/m²				0.37 W/m²				0.57 W/m²				- W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%
		☑ Tinted	Area= 207.52 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 99.80 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 1369.6 m²	SC =0.45	VLT=52% ER=19%	☐ Tinted	Area= m²	SC =	VLT=% ER=%
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☐ Yes ☐ No			
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☐ No			
		Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☐ No			
Solar Radiation through Glazing		1.51 W/m²				5.93 W/m²				7.45 W/m²				- W/m²			
Average Absorptivity		0.67				0.55				0.66				-			
RTTV$_{wall}$ at each façade		8.01 W/m²				11.85 W/m²				13.26 W/m²				- W/m²			
Overall RTTV$_{wall}$		10.80 W/m²															

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing						
Total Roof Area (Residential Units)		m²				
Total Skylight Area		m²				
Heat Conduction	Roof	W/m²				
	Skylight	W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☐ No				
	External Shading	☐ Yes ☐ No				
Solar Radiation through Glazing		W/m²				
Average Absorptivity (roof)						
Overall RTTV$_{Roof}$		W/m²				

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.

(9/2014)

RTTV Summary Sheet-T3

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

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$_{wall}$																	
Façade Orientation Facing		North West				North				North East				East			
Wall Orientation Factor		0.965				0.79				0.924				1.072			
Total External Wall Area (Residential Units)		1456.65 m²	Window to Wall Ratio =0			265.20 m²	Window to Wall Ratio =0			3155.10 m²	Window to Wall Ratio =0.45			216.45 m²	Window to Wall Ratio =0		
Total Window Area		0 m²				0 m²				1428.82 m²				0 m²			
Heat Conduction	Opaque Wall	6.62 W/m²				5.6 W/m²				4.02 W/m²				5.52 W/m²			
	Window	0 W/m²				0 W/m²				0.47 W/m²				0 W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%
		☑ Tinted	Area= 0m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 1428.82m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0m²	SC =0.45	VLT=52% ER=19%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No			
	External Shading	Overhang ☐ Yes ☑ No				Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☑ No			
		Sidefin ☐ Yes ☑ No				Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☑ No			
Solar Radiation through Glazing		0 W/m²				0 W/m²				5.99 W/m²				0 W/m²			
Average Absorptivity		0.62				0.63				0.63				0.41			
RTTV$_{wall}$ at each façade		6.62 W/m²				5.6 W/m²				10.48 W/m²				5.52 W/m²			
Overall RTTV$_{wall}$		9.86 W/m²															

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing		2.16				
Total Roof Area (Residential Units)		282.28 m²				
Total Skylight Area		0 m²				
Heat Conduction	Roof	3.03 W/m²				
	Skylight	0W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☑ No				
	External Shading	☐ Yes ☑ No				
Solar Radiation through Glazing		0 W/m²				
Average Absorptivity (roof)		0.7				
Overall RTTV$_{Roof}$		3.03 W/m²				

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-T3

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	26	

Table 1

Deemed to Satisfy $RTTV_{wall}$								
Faacde Orientation Facing								
Average Absorptivity								
Average Window to Wall Ratio								
Shading Coefficient of Glazing								
Average Shading Corfficient of Facade								
Visible Light Transmittance	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%

Table 2

$RTTV_{wall}$																	
Façade Orientation Facing		South East				South				South West				West			
Wall Orientation Factor		1.051				0.975				1.092				1.131			
Total External Wall Area (Residential Units)		1738.31 m²		Window to Wall Ratio		313.95 m²		Window to Wall Ratio		2345.85 m²		Window to Wall Ratio		577.2 m²		Window to Wall Ratio	
Total Window Area		382.51 m²		=0.22		20.02 m²		=0.06		771.69 m²		=0.33		300.32 m²		=0.52	
Heat Conduction	Opaque Wall	6.55 W/m²				5.38 W/m²				5.36 W/m²				4.08 W/m²			
	Window	0.26 W/m²				0.07 W/m²				0.4 W/m²				0.66 W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%
		☑ Tinted	Area= 382.51 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 20.02 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 771.69 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 300.32 m²	SC =0.45	VLT=52% ER=19%
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No			
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No			
		Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No			
Solar Radiation through Glazing		3.12 W/m²				0.86 W/m²				5.29 W/m²				10.36 W/m²			
Average Absorptivity		0.7				0.53				0.59				0.59			
$RTTV_{wall}$ at each façade		9.94 W/m²				6.31 W/m²				11.06 W/m²				15.11 W/m²			
Overall $RTTV_{wall}$		9.86 W/m²															

Table 3

$RTTV_{Roof}$						
Roof Orientation Facing						
Total Roof Area (Residential Units)		m²				
Total Skylight Area		m²				
Heat Conduction	Roof	W/m²				
	Skylight	W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☐ No				
	External Shading	☐ Yes ☐ No				
Solar Radiation through Glazing		W/m²				
Average Absorptivity (roof)						
Overall $RTTV_{Roof}$		W/m²				

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.

(9/2014)

RTTV Summary Sheet-T5

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	16	

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$_{wall}$																	
Façade Orientation Facing		North East				East				South East				South			
Wall Orientation Factor		0.924				1.072				1.051				0.975			
Total External Wall Area (Residential Units)		599.18 m²	Window to Wall Ratio			141.60 m²	Window to Wall Ratio			1070.16 m²	Window to Wall Ratio			238.80 m²	Window to Wall Ratio		
Total Window Area		24.64 m²	=0.04			0 m²	=0			478.63 m²	=0.45			127.70 m²	=0.53		
Heat Conduction	Opaque Wall	7.29 W/m²				6.92 W/m²				4.37 W/m²				3.30 W/m²			
	Window	0.04 W/m²				0 W/m²				0.53 W/m²				0.59 W/m²			
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%
		☑ Tinted	Area= 24.64m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 478.63m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 127.70m²	SC =0.45	VLT=52% ER=19%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
		☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No			
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☑ Yes ☐ No			
		Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☑ Yes ☐ No			
Solar Radiation through Glazing		0.58 W/m²				0 W/m²				6.71 W/m²				6.34 W/m²			
Average Absorptivity		0.73				0.55				0.61				0.55			
RTTV$_{wall}$ at each façade		7.91 W/m²				6.92 W/m²				11.61 W/m²				10.23 W/m²			
Overall RTTV$_{wall}$		9.98 W/m²															

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing		2.16				
Total Roof Area (Residential Units)		157.46 m²				
Total Skylight Area		0 m²				
Heat Conduction	Roof	3.03 W/m²				
	Skylight	0W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☑ No				
	External Shading	☐ Yes ☑ No				
Solar Radiation through Glazing		0 W/m²				
Average Absorptivity (roof)		0.7				
Overall RTTV$_{Roof}$		3.03 W/m²				

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-T5

Address :	West Rail Long Ping (South) Station Property Development at Yuen Long Town Lot no. 512, Yuen Long N.T.	BD Ref. No. BD 2/7803/11
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	☐ 2. Architect	
	☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	16	

Table 1

Deemed to Satisfy RTTV$_{wall}$								
Faacde Orientation Facing								
Average Absorptivity								
Average Window to Wall Ratio								
Shading Coefficient of Glazing								
Average Shading Corfficient of Facade								
Visible Light Transmittance	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%

Table 2

RTTV$_{wall}$																			
Façade Orientation Facing		South West				West				North West				North					
Wall Orientation Factor		1.092				1.131				0.965				-					
Total External Wall Area (Residential Units)		903.60 m²		Window to Wall Ratio		74.40 m²		Window to Wall Ratio		547.20 m²		Window to Wall Ratio		- m²		Window to Wall Ratio			
Total Window Area		348.66 m²		=0.39		0 m²		=0		32.56 m²		=0.06		- m²		=			
Heat Conduction	Opaque Wall	4.35 W/m²				7.04 W/m²				7.91 W/m²				- W/m²					
	Window	0.47 W/m²				0 W/m²				0.06 W/m²				- W/m²					
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%	☐ Reflective	Area= m²	SC=	VLT=% ER=%		
		☑ Tinted	Area= 348.66 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 0 m²	SC =0.45	VLT=52% ER=19%	☑ Tinted	Area= 32.56 m²	SC =0.45	VLT=52% ER=19%	☐ Clear	Area= m²	SC =	VLT=% ER=%		
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
		☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC =	VLT=% ER=%	☐ Clear	Area= m²	SC=	VLT=% ER=%		
	Double Glazing	☑ Yes ☐ No				☑ Yes ☐ No				☑ Yes ☐ No				☐ Yes ☐ No					
	External Shading	Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☑ No				Overhang ☑ Yes ☐ No				Overhang ☐ Yes ☐ No					
		Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☑ No				Sidefin ☑ Yes ☐ No				Sidefin ☐ Yes ☐ No					
Solar Radiation through Glazing		6.02 W/m²				0 W/m²				0.74 W/m²				- W/m²					
Average Absorptivity		0.55				0.55				0.78				-					
RTTV$_{wall}$ at each façade		10.84 W/m²				7.04 W/m²				8.71 W/m²				- W/m²					
Overall RTTV$_{wall}$		9.98 W/m²																	

Table 3

RTTV$_{Roof}$						
Roof Orientation Facing						
Total Roof Area (Residential Units)		m²				
Total Skylight Area		m²				
Heat Conduction	Roof	W/m²				
	Skylight	W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☐ No				
	External Shading	☐ Yes ☐ No				
Solar Radiation through Glazing		W/m²				
Average Absorptivity (roof)						
Overall RTTV$_{Roof}$		W/m²				

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.