

RTTV Summary Sheet (1 of 2)

Address: <u>Sha Tin Town Lot No. 587</u>		BD Ref. No. <u>219062/115</u>
Building Type:	Residential	
RTTV calculated by	☐ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	<u>13</u>	

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		East				South East				South				South West				
Wall Orientation Factor		1.072				1.051				0.975				1.042				
Total External Wall Area (Residential Units)		406.33 m ²				1573.26 m ²				1496.81 m ²				535.17 m ²				
Total Window Area		174.81 m ²				757.85 m ²				656.51 m ²				84.04 m ²				
Window to Wall Ratio		= 0.43				= 0.482				= 0.435				= 0.157				
Heat Conduction	Opaque Wall	4.01 W/m ²				5.72 W/m ²				5.79 W/m ²				7.26 W/m ²				
	Window	1.55 W/m ²				1.87 W/m ²				1.45 W/m ²				0.58 W/m ²				
Window	Glass Type	☒ Reflective	Area= 165.9 m ²	SC= 0.55	VLT= 29%	ER= 5%	☒ Reflective	Area= 148.2 m ²	SC= 0.55	VLT= 29%	ER= 5%	☒ Reflective	Area= 63.8 m ²	SC= 0.55	VLT= 29%	ER= 5%		
		☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= 98.6 m ²	SC= 0.159	VLT= 52%	ER= 6%	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %		
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %		
		Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No			
	External Shading	Overhang	☒ Yes ☐ No				☐ Yes ☐ No				☒ Yes ☐ No				☐ Yes ☒ No			
		Sidefin	☐ Yes ☐ No				☒ Yes ☐ No				☒ Yes ☐ No				☐ Yes ☒ No			
	Solar Radiation through Glazing		7.75 W/m ²				8.25 W/m ²				5.83 W/m ²				3.89 W/m ²			
	Average Absorptivity		0.5				0.8				0.8				0.6			
	RTTV _{wall} at each facade		13.32 W/m ²				15.85 W/m ²				13.07 W/m ²				11.72 W/m ²			
	Overall RTTV _{wall}		12.97 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		869.3 m ²							
Total Skylight Area		0 m ²							
Heat	Roof	1.08 W/m ²							
Conduction	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
External Shading	☐ Yes ☒ No								
Solar Radiation through Glazing		0 W/m ²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		1.08 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)

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RTTV Summary Sheet (2 of 2)

Address: <u>Sha Tin Town Lot No. 587</u>		BD Ref. No. <u>219062/15</u>
Building Type:	Residential	
RTTV calculated by	☐ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	<u>13</u>	

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		West			North West			North			North East			
Wall Orientation Factor		1.131			0.965			0.79			0.924			
Total External Wall Area (Residential Units)		161.99 m ²			1378.04 m ²			1102.10 m ²			413.05 m ²			
Total Window Area		4.02 m ² = 0.025			666.49 m ² = 0.484			461.69 m ² = 0.419			4.02 m ² = 0.010			
Heat Conduction	Opaque Wall	8.69 W/m ²			3.27 W/m ²			3.02 W/m ²			7.21 W/m ²			
	Window	0.08 W/m ²			1.6 W/m ²			1.12 W/m ²			0.03 W/m ²			
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	☒ Reflective	Area= m ²	SC=	VLT= %	☒ Reflective	Area= m ²	SC=	VLT= %	
		☐ Tinted	Area= m ²	SC=	VLT= %	☒ Tinted	Area= m ²	SC=	VLT= %	☐ Tinted	Area= m ²	SC=	VLT= %	
		☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	
		☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	Area= m ²	SC=	VLT= %	
		☐ Tinted	Area= m ²	SC=	VLT= %	☐ Tinted	Area= m ²	SC=	VLT= %	☐ Tinted	Area= m ²	SC=	VLT= %	
		☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	
	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 Gazing		0.54 W/m ²			8.49 W/m ²			7.23 W/m ²			0.17 W/m ²		
	Average Absorptivity		0.6			0.5			0.5			0.6		
	RTTV _{Wall} at each facade		9.32 W/m ²			13.36 W/m ²			11.36 W/m ²			7.41 W/m ²		
Overall RTTV _{Wall}		12.97 W/m ²												

Table 3

Table 9

RTTV _{Roof}									
Roof Orientation Factor									
Total Roof Area (Residential Units)		m ²							
Total Skylight Area		m ²							
Heat Conduction	Roof	W/m ²							
	Skylight	W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☐ No							
	External Shading	☐ Yes ☐ No							
Solar Radiation through Glazing		W/m ²							
Average Absorptivity (roof)									
Overall RTTV _{Roof}		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)