

RTTV Summary Sheet

Date : 12 November 2018

Address : Tai Po Town Lot 213, No. 18 Fo Chun Road, Pak Shek Kok, Tai Po, N.T. (House 1, 2, 5 & 7)		BD Ref. No. BD/9010/15
Building Type	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV wall								
Façade Orientation Facing	East	North	West	South				
Average Absorptive	0.5	0.54	0.50	0.57				
Average Window to Wall Ratio	0.00	0.45	0.2	0.62				
Shading Coefficient of Glazing	0.45	0.45	0.45	0.45				
Average Shading Coefficient of Façade	0.45	0.45	0.45	0.45				
Visible Light Transmittance	54%	54%	54%	54%	%	%	%	%
External Reflectance	19%	19%	19%	19%	%	%	%	%

Table 2

RTTV Wall																	
Façade Orientation Facing Wall Orientation Factor Total External Wall Area (Residential Units) Total Window Area		East				North				West				South			
		1.072				0.79				1.131				0.975			
		164m ²		Window to Wall Ratio		88.94m ²		Window to Wall Ratio		160.98m ²		Window to Wall Ratio		52.18m ²		Window to Wall Ratio	
		0.0m ²		1=0		40.2m ²		1=0.45		32.3m ²		1=0.2		32.4m ²		1=0.62	
Heat Conduction	Opaque Wall	6.55W/m ²				2.50W/m ²				4.74W/m ²				2.30W/m ²			
	Window	0.0W/m ²				0.58W/m ²				0.37W/m ²				0.98W/m ²			
Window	Glass Type	☐ Reflective	Area=	SC=	VLT= %	☐ Reflective	Area=	SC=	VLT= %	☐ Reflective	Area=	SC=	VLT= %	☐ Reflective	Area=	SC=	VLT= %
		☒ Tinted	Area=	SC=	VLT=54 %	☒ Tinted	Area=	SC=	VLT=54 %	☒ Tinted	Area=	SC=	VLT=54 %	☒ Tinted	Area=	SC=	VLT=54 %
		☐ Clear	Area=	SC=	VLT= %	☐ Clear	Area=	SC=	VLT= %	☐ Clear	Area=	SC=	VLT= %	☐ Clear	Area=	SC=	VLT= %
		m ²				m ²				m ²				m ²			
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No			
	External Shading	Overhang ☐ Yes ☒ No Sidefin ☐ Yes ☒ No				Overhang ☒ Yes ☐ No Sidefin ☐ Yes ☒ No				Overhang ☒ Yes ☐ No Sidefin ☐ Yes ☒ No				Overhang ☐ Yes ☒ No Sidefin ☐ Yes ☒ No			
	Solar Radiation through Gazing	0.0W/m ²				6.53W/m ²				3.79W/m ²				11.37W/m ²			
Average Absorptivity	0.5W/m ²				0.54W/m ²				0.50W/m ²				0.57W/m ²				
RTTV _{Wall} at each façade		6.55W/m ²				9.61W/m ²				8.89W/m ²				14.65W/m ²			
Overall RTTV _{Wall}		8.85W/m ²															

Table 3

RTTV Roof							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		114.04m ²					
Total Skylight Area		2.7m ²					
Heat Conduction	Roof	2.81W/m ²					
	Skylight	0.08W/m ²					
Skylight	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	
		☒ Tinted	Area= 2.7 m ²	SC= 0.45	VLT= 54 %	ER= 19 %	
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	
	Double Glazing	☐ Yes ☒ No					
External Shading		☐ Yes ☒ No					
Solar Radiation through Glazing		0.95W/m ²					
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		3.84W/m ²					

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Note :

- 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

Date : 2 November 2018

Address : Tai Po Town Lot 213, No. 18 Fo Chun Road, Pak Shek Kok, Tai Po, N.T. (Court D)		BD Ref. No. BD/9010/15
Building Type	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No of Storeys (Residential Units)	15	

Table 1

Deemed to Satisfy RTTV _{wall}								
Façade Orientation Facing	North East	North West	South West	South East				
Average Absorptive	0.66	0.52	0.7	0.57				
Average Window to Wall Ratio	0.66	0.11	0.65	0.23				
Shading Coefficient of Glazing	0.45	0.45	0.45	0.45				
Average Shading Coefficient of Façade	0.45	0.45	0.45	0.45				
Visible Light Transmittance	54%	54%	54%	54%	%	%	%	%
External Reflectance	19%	19%	19%	19%	%	%	%	%

Table 2

Table 2

RTTV _{wall}																		
Façade Orientation Facing Wall Orientation Factor Total External Wall Area (Residential Units) Total Window Area		North East		North West				South West				South East						
		0.924		0.965				1.092				1.051						
		2674.84m ²	Window to Wall Ratio	722.88m ²	Window to Wall Ratio	2737.33m ²	Window to Wall Ratio	734.27m ²	Window to Wall Ratio									
		1778m ²	1=0.66	82m ²	1=0.11	1778m ²	1=0.65	172m ²	1=0.23									
Heat Conduction	Opaque Wall	0.85W/m ²		5.19W/m ²				1.35W/m ²				4.90W/m ²						
	Window	0.99W/m ²		0.18W/m ²				1.14W/m ²				0.4W/m ²						
Window	Glass Type	☐ Reflective	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= 1778m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= 82m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= 1778m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= 172m ²	SC= 0.45	VLT= 54 %	
		☐ Clear	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	10.93W/m ²		2.06W/m ²				12.22W/m ²				4.63W/m ²						
Average Absorptivity	0.66W/m ²		0.52W/m ²				0.7W/m ²				0.57W/m ²							
RTTV _{wall} at each façade	12.77W/m ²		7.42W/m ²				14.71W/m ²				9.92W/m ²							
Overall RTTV _{wall}	12.67W/m ²																	

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		738.25m ²				
Total Skylight Area		0m ²				
Heat Conduction	Roof	2.81W/m ²				
	Skylight	0W/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		0W/m ²				
Average Absorptivity (roof)		0.7				
Overall RTTV _{Roof}		2.81W/m ²				

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Note :

- 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

Date : 2 November 2018

Address : Tai Po Town Lot 213, No. 18 Fo Chun Road, Pak Shek Kok, Tai Po, N.T. (Court A)		BD Ref. No. BD/9010/15
Building Type	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No of Storeys (Residential Units)	15	

Table 1

Deemed to Satisfy RTTV _{wall}								
Façade Orientation Facing	North East	North West	South West	South East				
Average Absorptive	0.82	0.53	0.7	0.5				
Average Window to Wall Ratio	0.69	0.01	0.72	0.03				
Shading Coefficient of Glazing	0.45	0.45	0.45	0.45				
Average Shading Coefficient of Façade	0.45	0.45	0.45	0.45				
Visible Light Transmittance	54%	54%	54%	54%	15%	10%	%	%
External Reflectance	19%	19%	19%	19%	20%	%	%	%

Table 2

RTTV Wall																					
Façade Orientation Facing		North East					North West					South West					South East				
Wall Orientation Factor		0.924					0.965					1.092					1.051				
Total External Wall Area (Residential Units)		2726.61m ²			Window to Wall Ratio		692.29m ²			Window to Wall Ratio		2510.44m ²			Window to Wall Ratio		894.92m ²		Window to Wall Ratio		
Total Window Area		1883m ²			1=0.69		70m ²			1=0.1		1800m ²			1=0.72		24m ²		1=0.03		
Heat Conduction	Opaque Wall	1.19W/m ²					5.46W/m ²					1.43W/m ²					6.43W/m ²				
	Window	1.03W/m ²					0.16W/m ²					1.26W/m ²					0.05W/m ²				
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 1883m ²	SC= 0.45	VLT= 54 %	ER= 19 %	☒ Tinted	Area= 70m ²	SC= 0.45	VLT= 54 %	ER= 19 %	☒ Tinted	Area= 1800m ²	SC= 0.45	VLT= 54 %	ER= 19 %	☒ Tinted	Area= 24m ²	SC= 0.45	VLT= 54 %	ER= 19 %
		☐ Clear	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= %
		☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
External Shading	Overhang ☒ Yes ☐ No					Overhang ☐ Yes ☒ No					Overhang ☒ Yes ☐ No					Overhang ☐ Yes ☒ No					
Shading		Sidefin ☐ Yes ☒ No					Sidefin ☐ Yes ☒ No					Sidefin ☐ Yes ☒ No					Sidefin ☐ Yes ☒ No				
Solar Radiation through Gazing		11.47W/m ²					1.83W/m ²					13.7W/m ²					0.53W/m ²				
Average Absorptvity		0.82W/m ²					0.53W/m ²					0.7W/m ²					0.5W/m ²				
RTTV _{Wall} at each façade		13.7W/m ²					7.45W/m ²					16.39W/m ²					7.01W/m ²				
Overall RTTV _{wall}		13.18W/m ²																			

Table 3

Table 5

RTTV _{Roof}											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		742.47m ²									
Total Skylight Area		0m ²									
Heat Conduction	Roof	2.80W/m ²									
	Skylight	0W/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=	%		
	Gouble Glazing	☐ Yes ☐ No									
	External Shading	☐ Yes ☐ No									
Solar Radiation though Glazing		0W/m ²									
Average Absorptivity (roof)		0.7									
Overall RTTV _{Roof}		2.80W/m ²									

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Note :

- 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

Date : 12 November 2018

Address : Tai Po Town Lot 213, No. 18 Fo Chun Road, Pak Shek Kok, Tai Po, N.T. (House 9)		BD Ref. No. BD/9010/15
Building Type	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{wall}								
Façade Orientation Facing	North East	North West	South West	South East	North			
Average Absorptivity	0.60	0.60	0.60	0.60	0.60			
Average Window to Wall Ratio	0.55	0.0	0.17	0.1	0.0			
Shading Coefficient of Glazing	0.45	0.45	0.45	0.45	0.45			
Average Shading Coefficient of Façade	0.45	0.45	0.45	0.45	0.45			
Visible Light Transmittance	54%	54%	54%	54%	54%	%	%	%
External Reflectance	19%	19%	19%	19%	19%	%	%	%

Table 2

RTTV _{wall}																					
Façade Orientation Facing		North East				North West				South West				South East				North			
Wall Orientation Factor		0.924				0.965				1.092				1.051				0.79			
Total External Wall Area (Residential Units)		129.47m ²		Window to Wall Ratio		119.49m ²		Window to Wall Ratio		115.45m ²		Window to Wall Ratio		127.77m ²		Window to Wall Ratio		14.74m ²		Window to Wall Ratio	
Total Window Area		71.34m ²		1=0.55		0m ²		1=0.00		19.47m ²		1=0.17		12.4m ²		1=0.1		0m ²		1=0	
Heat Conduction	Opaque Wall	2.0W/m ²				4.88W/m ²				3.95W/m ²				4.88W/m ²				3.3W/m ²			
	Window	0.82W/m ²				0.00W/m ²				0.3W/m ²				0.16W/m ²				0.00W/m ²			
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	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= 71.34m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= m ²	SC=	VLT= %	☒ Tinted	Area= 19.47m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= 12.4m ²	SC= 0.45	VLT= 54 %	☒ Tinted	Area= m ²	SC=	VLT= %
		☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	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				☐ Yes ☒ No			
		Overhang ☒ Yes ☐ No				Overhang ☐ Yes ☒ No				Overhang ☐ Yes ☒ No				Overhang ☐ Yes ☒ No				Overhang ☐ Yes ☒ No			
		Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No			
Solar Radiation through Gazing		9.20W/m ²				0.00W/m ²				3.46W/m ²				1.92W/m ²				0.00W/m ²			
Average Absorptvity		0.60W/m ²				0.56W/m ²				0.67W/m ²				0.64W/m ²				0.5W/m ²			
RTTV _{wall} at each façade		12.02W/m ²				4.88W/m ²				7.70W/m ²				6.96W/m ²				3.30W/m ²			
Overall RTTV _{wall}		7.83W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		111.31m ²							
Total Skylight Area		2.7m ²							
Heat	Roof	2.81W/m ²							
Conduction	Skylight	0.08W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☒ Tinted	Area=2.7	m ²	SC=0.45	VLT=54	%	ER=19	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
Solar Radiation through Glazing		0.97W/m ²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		3.87W/m ²							

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Note :

- Please tick in the box as appropriate
- Window and skylight data should be represent the major proportion of its use in the development.

(9/2014)

RTTV Summary Sheet

Date : 12 November 2018

Address : Tai Po Town Lot 213, No. 18 Fo Chun Road, Pak Shek Kok, Tai Po, N.T. (House 3, 6 & 8)		BD Ref. No. BD/9010/15
Building Type	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV wall									
Façade Orientation Facing	East	North	West	South					
Average Absorptivity	0.50	0.54	0.50	0.57					
Average Window to Wall Ratio	0.2	0.45	0.0	0.62					
Shading Coefficient of Glazing	0.45	0.45	0.45	0.45					
Average Shading Coefficient of Façade	0.45	0.45	0.45	0.45					
Visible Light Transmittance	54%	54%	54%	54%	%	%	%	%	%
External Reflectance	19%	19%	19%	19%	%	%	%	%	%

Table 2

RTTV _{wall}																	
Façade Orientation Facing Wall Orientation Factor Total External Wall Area (Residential Units) Total Window Area		East				North				West				South			
		1.072				0.79				1.131				0.975			
		160.98m ²		Window to Wall Ratio		88.94m ²		Window to Wall Ratio		164m ²		Window to Wall Ratio		52.18m ²		Window to Wall Ratio	
		32.3m ²		1=0.2		40.2m ²		1=0.45		0m ²		1=0		32.4m ²		1=0.62	
Heat Conduction	Opaque Wall	4.49W/m ²				2.50W/m ²				6.91W/m ²				2.30W/m ²			
	Window	0.35W/m ²				0.58W/m ²				0W/m ²				0.98W/m ²			
Window	Glass Type	☐ Reflective	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= 32.3M ²	SC= 0.45	VLT=54 %	☒ Tinted	Area= 40.2m ²	SC= 0.45	VLT=54 %	☒ Tinted	Area= 0m ²	SC= 0.45	VLT=54 %	☒ Tinted	Area= 32.4m ²	SC= 0.45	VLT=54 %
		☐ Clear	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	Overhang ☒ Yes ☐ No				Overhang ☒ Yes ☐ No				Overhang ☐ Yes ☒ No				Overhang ☐ Yes ☒ No			
	Shading	Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No			
	Solar Radiation through Gazing		3.59W/m ²				6.53W/m ²				0W/m ²				11.37W/m ²		
Average Absorptvity		0.50W/m ²				0.54W/m ²				0.50W/m ²				0.57W/m ²			
RTTV _{wall} at each façade		8.43W/m ²				9.61W/m ²				6.91W/m ²				14.65W/m ²			
Overall RTTV _{wall}		8.82W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		114.04m ²							
Total Skylight Area		2.7m ²							
Heat Conduction	Roof	2.81W/m ²							
	Skylight	0.08W/m ²							
Skylight	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %			
		☒ Tinted	Area=2.7 m ²	SC=0.45	VLT=54 %	ER=19 %			
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %			
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
Solar Radiation through Glazing		0.95W/m ²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		3.84W/m ²							

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

Note :

- Please tick in the box as appropriate
- Window and skylight data should represent the major proportion of its use in the development.