

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL RE-DEVELOPMENT LOT NO. 1909 IN D.D. NO 100. FAN KAM ROAD, SHEUNG SHUI, NEW TERRITORIES		BD Ref. No. BD 2 / 9188 / 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}									
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		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		103.96 m ²		Window to Wall Ratio		96.98 m ²		Window to Wall Ratio		198.11 m ²		Window to Wall Ratio		109.87 m ²		Window to Wall Ratio	
Total Window Area		22.13 m ²		1 = 0.21		1.27 m ²		1 = 0.01		81.08 m ²		1 = 0.41		1.27 m ²		1 = 0.01	
Heat Conduction	Opaque Wall	5.13 W/m ²				7.25 W/m ²				4.41 W/m ²				6.18 W/m ²			
	Window	0.23 W/m ²				0.02 W/m ²				0.04 W/m ²				0.01 W/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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %
		☒ Clear	Area= 22.13m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 1.27m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 81.08m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 1.27m ²	SC= 0.45	VLT= 55% ER= 15 %
		☒ Yes ☒ No				☒ Yes ☐ No				☒ Yes ☐ No				☒ Yes ☐ No			
	Double Glazing																
		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		3.70 W/m ²				0.26 W/m ²				8.40 W/m ²				0.21 W/m ²			
Average Absorptivity		0.61				0.60				0.60				0.60			
RTTV _{Wall} at each facade		9.05 W/m ²				7.53 W/m ²				12.85 W/m ²				6.40 W/m ²			
Overall RTTV _{Wall}		9.67 W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		172.37 m ²					
Total Skylight Area		N/A m ²					
Heat Conduction	Roof	2.89 W/m ²					
	Skylight	N/A 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		N/A W/m ²					
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.89 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.

(9/2014)

Appendix A
(PNAP APP-156)
HOUSE B

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL RE-DEVELOPMENT LOT NO. 1909 IN D.D. NO 100. FAN KAM ROAD, SHEUNG SHUI, NEW TERRITORIES		BD Ref. No. BD 2 / 9188 / 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}									
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		North East				South East				South West				North West					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		103.96 m ²		Window to Wall Ratio		96.98 m ²		Window to Wall Ratio		198.11 m ²		Window to Wall Ratio		109.87 m ²		Window to Wall Ratio			
Total Window Area		22.13 m ²		1 = 0.21		3.99 m ²		1 = 0.01		81.08 m ²		1 = 0.41		1.27 m ²		1 = 0.01			
Heat Conduction	Opaque Wall	5.13 W/m ²				7.02 W/m ²				4.40 W/m ²				6.18 W/m ²					
	Window	0.23 W/m ²				0.05 W/m ²				0.04 W/m ²				0.01 W/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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %		
		☒ Clear	Area= 22.13m ²	SC= 0.45	VLT= 55% ER= 15%	☒ Clear	Area= 3.99 m ²	SC= 0.45	VLT= 55% ER= 15%	☒ Clear	Area= 81.08m ²	SC= 0.45	VLT= 55% ER= 15%	☒ Clear	Area= 1.27 m ²	SC= 0.45	VLT= 55% ER= 15%		
		☒ Yes ☐ No				☒ Yes ☐ No				☒ Yes ☐ No				☒ Yes ☐ No					
	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		3.70 W/m ²				0.81 W/m ²				8.40 W/m ²				0.21 W/m ²					
Average Absorptivity		0.61				0.60				0.60				0.60					
RTTV _{Wall} at each facade		9.05 W/m ²				7.88 W/m ²				12.84 W/m ²				6.40 W/m ²					
Overall RTTV _{Wall}		9.37 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		161.31 m ²					
Total Skylight Area		N/A m ²					
Heat Conduction	Roof	2.89 W/m ²					
	Skylight	N/A 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		N/A W/m ²					
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.89 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.

(9/2014)

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL RE-DEVELOPMENT LOT NO. 1909 IN D.D. NO 100. FAN KAM ROAD, SHEUNG SHUI, NEW TERRITORIES		BD Ref. No. BD 2 / 9188 / 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}									
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		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		103.96 m ²	Window to Wall Ratio			109.87 m ²	Window to Wall Ratio			198.11 m ²	Window to Wall Ratio			96.98 m ²	Window to Wall Ratio		
Total Window Area		22.13 m ²	1 = 0.21			2.72 m ²	1 = 0.02			81.08 m ²	1 = 0.41			1.27 m ²	1 = 0.01		
Heat Conduction	Opaque Wall	5.13 W/m ²				6.62 W/m ²				4.41 W/m ²				6.66 W/m ²			
	Window	0.23 W/m ²				0.03 W/m ²				0.04 W/m ²				0.01 W/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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %
		☒ Clear	Area= 22.13m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 3.99 m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 81.08m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 1.27 m ²	SC= 0.45	VLT= 55% ER= 15 %
		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		3.70 W/m ²				0.49 W/m ²				8.40 W/m ²				0.24 W/m ²			
Average Absorptivity		0.61				0.60				0.60				0.60			
RTTV _{Wall} at each facade		9.05 W/m ²				7.14 W/m ²				12.85 W/m ²				6.91 W/m ²			
Overall RTTV _{Wall}		9.71 W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		172.37 m ²					
Total Skylight Area		N/A m ²					
Heat	Roof	2.89 W/m ²					
Conduction	Skylight	N/A 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		N/A W/m ²				
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.89 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.

(9/2014)

Appendix A
(PNAP APP-156)
HOUSE D

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL RE-DEVELOPMENT LOT NO. 1909 IN D.D. NO 100. FAN KAM ROAD, SHEUNG SHUI, NEW TERRITORIES		BD Ref. No. BD 2 / 9188 / 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}									
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		North East				South East				South West				North West					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		96.29 m ²		Window to Wall Ratio		103.75 m ²		Window to Wall Ratio		164.47 m ²		Window to Wall Ratio		73.27 m ²		Window to Wall Ratio			
Total Window Area		19.40 m ²		1 = 0.20		5.42 m ²		1 = 0.05		77.48 m ²		1 = 0.47		13.22 m ²		1 = 0.18			
Heat Conduction	Opaque Wall	5.07 W/m ²				6.69 W/m ²				3.83 W/m ²				5.47 W/m ²					
	Window	0.21 W/m ²				0.06 W/m ²				0.05 W/m ²				0.20 W/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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %		
		☒ Clear	Area= 19.40m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 5.42, m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 77.48m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 13.22m ²	SC= 0.45	VLT= 55% ER= 15 %		
	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		3.50 W/m ²				1.03 W/m ²				9.66 W/m ²				0.20 W/m ²				
Average Absorptivity		0.61				0.60				0.60				0.60					
RTTV _{Wall} at each facade		8.79 W/m ²				7.78 W/m ²				13.55 W/m ²				8.94 W/m ²					
Overall RTTV _{Wall}		10.36 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		146.35 m ²					
Total Skylight Area		N/A m ²					
Heat Conduction	Roof	2.89 W/m ²					
	Skylight	N/A 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		N/A W/m ²				
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.89 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)

RTTV Summary Sheet

Address: PROPOSED RESIDENTIAL RE-DEVELOPMENT LOT NO. 1909 IN D.D. NO 100. FAN KAM ROAD, SHEUNG SHUI, NEW TERRITORIES		BD Ref. No. BD 2 / 9188 / 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}									
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		North East					South East					South West					North West					
Wall Orientation Factor		0.924					1.051					1.092					0.965					
Total External Wall Area (Residential Units)		169.08 m ²		Window to Wall Ratio			77.92 m ²		Window to Wall Ratio			56.02 m ²		Window to Wall Ratio			53.99 m ²		Window to Wall Ratio			
Total Window Area		66.46 m ²		1 = 0.39			10.72 m ²		1 = 0.13			12.22 m ²		1 = 0.22			4.37 m ²		1 = 0.08			
Heat Conduction	Opaque Wall	3.83 W/m ²					6.28 W/m ²					5.97 W/m ²					6.19 W/m ²					
	Window	0.42 W/m ²					0.16 W/m ²					0.02 W/m ²					0.09 W/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= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	
		☒ Clear	Area= 66.46m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 10.27m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 12.22m ²	SC= 0.45	VLT= 55% ER= 15 %	☒ Clear	Area= 4.37 m ²	SC= 0.45	VLT= 55% ER= 15 %					
	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 Gazing		6.82 W/m ²					2.60 W/m ²					4.48 W/m ²					1.47 W/m ²					
Average Absorptivity		0.60					0.61					0.60					0.60					
RTTV _{Wall} at each facade		11.08 W/m ²					9.04 W/m ²					10.47 W/m ²					7.75 W/m ²					
Overall RTTV _{Wall}		10.03 W/m ²																				

Table 3

Table 5

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		117.40 m ²					
Total Skylight Area		N/A m ²					
Heat Conduction	Roof	2.89 W/m ²					
	Skylight	N/A 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		N/A W/m ²					
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.89 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.

(9/2014)