Appendix A

(PNAP APP-156)

RTTV Summary Sheet

Address:	NO. 11 COOMBE ROAD, THE PEAK, HONG KONG R.B.L. 524	BD Ref. No.	BD 2 3017/16
Building Type:	Residential		
RTTV calculated by	☑ 1. Registered Professional Engineers		
	☐ 2. Architect		
	☐ 3. Others, please specify :		
No. of Storeys (Residential Units)	5		

Table 1

Deemed to Satisfy $RTTV_{Wall}$								
Facade Orientation Facing	NW	NE	NW	NW				
Average Absorptivity	0.8	0.8	0.8	0.8				
Average Window to Wall Ratio	1000:13729	4961:29586	1135:10822	10539:17509				
Shading Coefficient of Glazing	0.57	0.57	0.57	0.57				
Average Shading Coefficient of Facade	0.57	0.57	0.57	0.57				
Visible Light Transmittance	66 %	66 %	66 %	66 %	%	%	%	%
External Reflectance	12 %	12 %	12 %	12 %	%	%	%	%

Table 2

$RTTV_{Wall}$																					
Facade Orientation Facing		NW					NE					SE					NW				
Wall Orientation Factor		0.965					0.924					1.05					1.092				
Total External Wall Area (Residential Units)		137.29 m²		Window to Wall Ratio			295.86 m²		Window to Wall Ratio			108.22 m²		Window to Wall Ratio			175.09 m²		Window to Wall Ratio		
Total Window Area		10 m²		=1000:13729			49.61 m²		=4961:29586			11.35 m²		=1135:10822			105.39 m²		=10539:17509		
Heat Conduction	Opaque Wall	137.29 W/m²					3.46 W/m²					5.1 W/m²					4.39 W/m²				
	Window	0.08 W/m²					0.3 W/m²					0.12 W/m²					0.75 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= m²	SC=	VLT= % ER= %		☐ Tinted	Area= m²	SC=	VLT= % ER= %		☐ Tinted	Area= m²	SC=	VLT= % ER= %		☐ Tinted	Area= m²	SC=	VLT= % ER= %	
		☑ Clear	Area= 10 m²	SC= 0.57	VLT= 66% ER= 12%		☑ Clear	Area= 49.61 m²	SC= 0.57	VLT= 66% ER= 12%		☑ Clear	Area= 11.35 m²	SC= 0.57	VLT= 66% ER= 12%		☑ Clear	Area= 105.390 m²	SC= 0.57	VLT= 66% ER= 12%	
	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		1.62 W/m²					3.69 W/m²					2.62 W/m²					15.64 W/m²				
Average Absorptivity		0.8					0.8					0.8					0.8				
$RTTV_{Wall}$ at each facade		5.78 W/m²					7.44 W/m²					7.84 W/m²					20.79 W/m²				
Overall $RTTV_{Wall}$		10.45 W/m²																			

Table 3

$RTTV_{Roof}$						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		407.56 m²				
Total Skylight Area		3.68 m²				
Heat Conduction	Roof	407.56 W/m²				
	Skylight	2.83 W/m²				
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %
		☐ Tinted	Area= m²	SC=	VLT= %	ER= %
		☑ Clear	Area= 3.68 m²	SC= 0.57	VLT= 66 %	ER= 12 %
	Double Glazing	☐ Yes ☑ No				
	External Shading	☐ Yes ☑ No				
Solar Radiation through Glazing		0.02 W/m²				
Average Absorptivity (roof)		0.7				
Overall $RTTV_{Roof}$		2.85 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.