Appendix A
(PNAP APP-156)

RTTV Summary Sheet

Address:	20 Kent Road, Kowloon Tong
Building Type:	Residential
BD Ref. No.	
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		SE	NW	NE	SW
Wall Orientation Factor		1.051	0.965	0.924	1.092
Total External Wall Area (Residential Units)		99.98 m²	45.39 m²	104.05 m²	106.96 m²
Total Window Area		25.53 m² Window to Wall Ratio = 0.25	11.02 m² Window to Wall Ratio = 0.24	65.07 m² Window to Wall Ratio = 0.625	41.58 m² Window to Wall Ratio = 0.389
Heat Conduction	Opaque Wall	2.13 W/m²	1.98 W/m²	0.94 W/m²	1.81 W/m²
	Window	0.87 W/m²	0.79 W/m²	1.95 W/m²	1.43 W/m²
Window	Glass Type	☐ Reflective Area= m² SC= VLT= % ER= % ☐ Tinted Area= m² SC= VLT= % ER= % ☑ Clear Area= 25.53m² SC= 0.64 VLT= 50 % ER= 5 %	☐ Reflective Area= m² SC= VLT= % ER= % ☐ Tinted Area= m² SC= VLT= % ER= % ☑ Clear Area= 11.02m² SC= 0.64 VLT=50 % ER= 5 %	☐ Reflective Area= m² SC= VLT= % ER= % ☐ Tinted Area= m² SC= VLT= % ER= % ☑ Clear Area= 65.07m² SC= 0.64 VLT= 50 % ER= 5 %	☐ Reflective Area= m² SC= VLT= % ER= % ☐ Tinted Area= m² SC= VLT= % ER= % ☑ Clear Area= 41.58m² SC= 0.64 VLT= 50 % ER= 5 %
	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		6.02 W/m²	5.49 W/m²	13.27 W/m²	10.27 W/m²
Average Absorptivity		0.5	0.5	0.5	0.5
$RTTV_{Wall}$ at each facade		9.02 W/m²	8.27 W/m²	16.16 W/m²	13.31 W/m²
Overall $RTTV_{Wall}$		12.30 W/m²			

Table 3

$RTTV_{Roof}$

Roof Orientation Factor						
Total Roof Area (Residential Units)		2.16				
Total Skylight Area		118.57 m²				
Heat Conduction	Roof	0 m²				
	Skylight	1.18 W/m²				
Skylight	Glass Type	0 W/m²				
		☐ Reflective	Area= m²	SC=	VLT= %	ER= %
		☐ Tinted	Area= m²	SC=	VLT= %	ER= %
		☐ Clear	Area= m²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☐ No				
	External Shading	☐ Yes ☐ No				
Solar Radiation through Glazing		0 W/m²				
Average Absorptivity (roof)		0.5				
Overall $RTTV_{Roof}$		1.18 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.