



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

PNAP
APP-156
 Appendix **A**

Address: **Redevelopment of Tai Po Town Lot No.233, Nos.2, 4 and 6, Wai Yi Street, Tai Po, N.T.** BD Ref. No. **BD2/9046/18**

Building Type: Residential

RTTV calculated by
 1. Registered Professional Engineers
 2. Architect
 3. Others, please specify:

No. of Storeys (Residential Units) **10**

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		E				N				W				S			
Wall Orientation Factor		1.072				0.79				1.131				0.975			
Total External Wall Area (Residential Units)		357.24 m ²		Window to Wall Ratio = 0.01		381.62 m ²		Window to Wall Ratio = 0.76		359.76 m ²		Window to Wall Ratio = 0		376.61 m ²		Window to Wall Ratio = 0.04	
Total Window area		4.03 m ²				289.72 m ²				0 m ²		0		14.08 m ²			
Heat Conduction	Opaque Wall	9.30 W/m ²				0.64 W/m ²				3.83 W/m ²				3.18 W/m ²			
	Window	0.03 W/m ²				1.50 W/m ²				0 W/m ²				0.09 W/m ²			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	
		<input checked="" type="checkbox"/> Clear	Area= 4.03 m ²	SC= 0.69	VLT= 80 %	ER= 11 %	<input checked="" type="checkbox"/> Clear	Area= 289.72 m ²	SC= 0.69	VLT= 80 %	ER= 11 %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	
Double Glazing		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
External Shading		Overhang		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Overhang		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Overhang		<input type="checkbox"/> Yes <input type="checkbox"/> No		Overhang		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidefin		<input type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		0.35 W/m ²				17.28 W/m ²				0 W/m ²				1.05 W/m ²			
Average Absorptivity		0.78				0.61				0.78				0.9			
RTTV _{Wall} at each facade		9.67 W/m ²				20.09 W/m ²				9.97 W/m ²				10.69 W/m ²			
Overall RTTV _{Wall}		12.70 W/m ²															

Table 3

RTTV _{Roof}											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		86.41 m ²									
Total Skylight Area		0 m ²									
Heat Conduction	Roof	3.48 W/m ²									
	Skylight	0 W/m ²									
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	ER= %
Double Glazing		<input type="checkbox"/> Yes <input type="checkbox"/> No									
External Shading		<input type="checkbox"/> Yes <input type="checkbox"/> No									
Solar Radiation through Glazing		0 W/m ²									
Average Absorptivity (roof)		0.9									
Overall RTTV _{Roof}		3.48 W/m ²									