



RTTV Summary Sheet

2 / 4027 / 116 (Pt. IV) (5)

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: 205-211A HAI TAN STREET, SHAM SHUI PO, KOWLOON		BD Ref. No. BD 2/4027/16
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	19	

Table 1

Deemed to Satisfy RTTV _{Wall}							
Facade Orientation Facing	North East	South East	South West	North West			
Average Absorptivity	0.9	0.9	0.9	0.9			
Average Window to Wall Ratio	0.48	0	0.71	0			
Shading Coefficient of Glazing	0.65/0.44/0.86 (G1/G3/G4)	N/A	0.65 (G1)	N/A			
Average Shading Coefficient of Facade	0.49	N/A	0.54	N/A			
Visible Light Transmittance	50/55/85 (G1/G3/G4) %	N/A %	50 (G1) %	N/A %	%	%	%
External Reflectance	6/16/8 (G1/G3/G4) %	N/A %	8 (G1) %	N/A %	%	%	%

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)		1292.89 m ²		Window to Wall Ratio = 0.48		433.10 m ²		Window to Wall Ratio = 0		341.48 m ²		Window to Wall Ratio = 0.71		408.04 m ²		Window to Wall Ratio = 0	
Total Window Factor		616.10 m ²		0		0 m ²		0		242.18 m ²		0.71		0 m ²		0	
Heat Conduction	Opaque Wall	5.25 W/m ²				8.55 W/m ²				3.66 W/m ²				7.13 W/m ²			
	Window	1.07 W/m ²				0 W/m ²				2.54 W/m ²				0 W/m ²			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= N/A m ²	SC= N/A	VLT= N/A %	<input type="checkbox"/> Reflective	Area= N/A m ²	SC= N/A	VLT= N/A %	<input type="checkbox"/> Reflective	Area= N/A m ²	SC= N/A	VLT= N/A %	<input type="checkbox"/> Reflective	Area= N/A m ²	SC= N/A	VLT= N/A %
		<input checked="" type="checkbox"/> G1 Tinted	Area= 341.66/241.93 m ²	SC= 0.65/0.44	VLT= 50/55 %	<input type="checkbox"/> Tinted	Area= N/A m ²	SC= N/A	VLT= N/A %	<input checked="" type="checkbox"/> G1 Tinted	Area= 242.18 m ²	SC= 0.65	VLT= 50 %	<input checked="" type="checkbox"/> Tinted	Area= N/A m ²	SC= N/A	VLT= N/A %
		<input checked="" type="checkbox"/> G4 Clear	Area= 32.51 m ²	SC= 0.86	VLT= 85 %	<input type="checkbox"/> Clear	Area= N/A m ²	SC= N/A	VLT= N/A %	<input type="checkbox"/> G1 Clear	Area= N/A m ²	SC= N/A	VLT= N/A %	<input type="checkbox"/> Clear	Area= N/A m ²	SC= N/A	VLT= N/A %
		Double Glazing	<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				<input type="checkbox"/> Yes <input type="checkbox"/> No		
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Sidfin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Glazing		9.02 W/m ²				0 W/m ²				17.30 W/m ²				0 W/m ²			
Average Absorptivity		0.9				0.9				0.9				0.9			
RTTV _{Wall} at each facade		15.34 W/m ²				8.55 W/m ²				23.5 W/m ²				7.13 W/m ²			
Overall RTTV _{Wall}		13.95 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		73.95 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	1.38 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= N/A m ²	SC= N/A	VLT= N/A %	ER= N/A %			
		<input type="checkbox"/> Tinted	Area= N/A m ²	SC= N/A	VLT= N/A %	ER= N/A %			
		<input type="checkbox"/> Clear	Area= N/A m ²	SC= N/A	VLT= N/A %	ER= N/A %			
	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)		0.3							
Overall RTTV _{Roof}		1.38 W/m ²							

G1: 10mm crystal grey G3: 12mm SSP0-60(T)(#2) + 12A + 10mm low iron G4: 15mm clear