

RTTV Summary Sheet

Address: Proposed Composite Development., at 2 Tak Shing Street, Tsim Sha Tsui, Kowloon		BD Ref. No. 2/4069/14
Building Type:	Residential	
RTTV Calculated by:	<input checked="" type="checkbox"/> 1. Registered Professional Thomas Anderson & Partners Consulting Engineers Ltd. <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	East		North		West		South	
Average Absorptivity	0.62		0.60		0.62		0.59	
Average Window to Wall Ratio	0.37		0.61		0.36		0.58	
Shading Coefficient of Glazing	0.66		0.66		0.66		0.66	
Average Shading Coefficient of Facade	0.66		0.66		0.66		0.66	
Visible Light Transmittance	50 %		50 %		50 %		50 %	
External Reflectance	6 %		6 %		6 %		6 %	

Table 2

RTTV _{wall}																	
Facade Orientation Facing		East				North				West				South			
Wall Orientation Factor		1.072				0.79				1.131				0.975			
Total External Wall Area (Residential Units)		1482.5 m ²				1253.2 m ²				1465.1 m ²				1368.5 m ²			
Total Window Area		549.0 m ² = 0.37				767.38 m ² = 0.61				534.36 m ² = 0.36				790.87 m ² = 0.58			
Heat Conduction	Opaque Wall	4.31 W/m ²				1.78 W/m ²				4.59 W/m ²				2.38 W/m ²			
	Window	1.44 W/m ²				1.76 W/m ²				1.50 W/m ²				2.05 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 checked="" type="checkbox"/> Tinted	Area = 411.8 m ²	SC = 0.66	VLT = 50 %	ER = 6 %	<input checked="" type="checkbox"/> Tinted	Area = 575.5 m ²	SC = 0.66	VLT = 50 %	ER = 6 %	<input checked="" type="checkbox"/> Tinted	Area = 400.8 m ²	SC = 0.66	VLT = 50 %	ER = 6 %	
		<input type="checkbox"/> Clear	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 checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Sidefin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Glazing		7.85 W/m ²				9.70 W/m ²				8.15 W/m ²				9.05 W/m ²			
Average Absorptivity		0.62				0.60				0.62				0.59			
RTTV _{wall} at each Facade		13.60 W/m ²				13.25 W/m ²				14.23 W/m ²				9.32 W/m ²			
Overall RTTV _{wall}		13.656 W/m ²															

Table 3

RTTV _{Roof}																
Roof Orientation Factor		2.16														
Total Roof Area (Residential Units)		265.10 m ²														
Total Skylight Area		0 m ²														
Heat Conduction	Roof	2.89 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"/> 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 type="checkbox"/> Clear	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)		0.7														
Overall RTTV _{Roof}		2.89 W/m ²														

ER = External Reflectance; SC = Shading Coefficient & VLT = Visible Light Transmittance

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