

Address: Proposed Residential Development at Tin Shui Wai Town Lot 33 (WV10 WV11)		BD Ref. No. BD 2/9124/14
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)	6 (G/F-6/F)	

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		East					South					West				North					
Wall Orientation Factor		1.072					0.975					1.131				0.79					
Total External Wall Area (Residential Units)		805.41 m ²		Window to Wall Ratio = 0.33			384.72 m ²		Window to Wall Ratio = 0.09			342.07 m ²		Window to Wall Ratio = 0.67		384.72 m ²		Window to Wall Ratio = 0.09			
Total Window Factor		264.40 m ²					34.31 m ²					227.97 m ²				34.31 m ²					
Heat Conduction	Opaque Wall	9.08 W/m ²					11.19 W/m ²					4.76 W/m ²				9.07 W/m ²					
	Window	0.33 W/m ²					0.09 W/m ²					0.80 W/m ²				0.07 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"/> 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"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Clear	Area= 264.4m ²	SC= 0.32	VLT=51 %	ER=7 %	<input checked="" type="checkbox"/> Clear	Area= 34.31m ²	SC= 0.32	VLT=51 %	ER=7 %	<input checked="" type="checkbox"/> Clear	Area= 227.97m ²	SC= 0.32	VLT=51 %	ER=7 %	<input checked="" type="checkbox"/> Clear	Area= 34.31m ²	SC= 0.32	VLT=51 %	ER=7 %
Double Glazing		<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					
External Shading		Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Overhang		<input checked="" type="checkbox"/> Yes <input 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 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 checked="" type="checkbox"/> No		
Solar Radiation through Glazing		3.52 W/m ²					0.97 W/m ²					10.07 W/m ²				0.93 W/m ²					
Average Absorptivity		0.9					0.9					0.9				0.9					
RTTV _{Wall} at each facade		12.93 W/m ²					12.25 W/m ²					15.62 W/m ²				10.07 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)		301.02 m ²									
Total Skylight Area		0 m ²									
Heat Conduction	Roof	3.62 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 checked="" type="checkbox"/> No									
External Shading		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Solar Radiation through Glazing		0 W/m ²									
Average Absorptivity (roof)		0.9									
Overall RTTV _{Roof}		3.62 W/m ²									