

RTTV Summary Sheet

Date : 18 June 2017

Address : 245-247 Tai Kok Tsui Road, Tai Kok Tsui, Hong Kong		BD Ref. No. BD2/4013/12
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							
Façade Orientation Facing	North	East	South	West			
Average Absorptive	0.95	0.95	0.90	0.97			
Average Window to Wall Ratio	0.02	0.37	0.00	0.47			
Shading Coefficient of Glazing	0.49	0.49		0.49			
Average Shading Coefficient of Façade	0.49	0.49		0.49			
Visible Light Transmittance	53%	53%	%	53%	%	%	%
External Reflectance	18%	18%	%	18%	%	%	%

Table 2

RTTV Wall																	
Façade Orientation Facing		North				East				South				West			
Wall Orientation Factor		0.79				1.072				0.975				1.131			
Total External Wall Area (Residential Units)		512.32m ²		Window to Wall Ratio		726.7m ²		Window to Wall Ratio		215.76m ²		Window to Wall Ratio		204.81m ²		Window to Wall Ratio	
Total Window Area		11.95m ²		1=0.02		269.86m ²		1=0.37		0m ²		1=0.00		96.22m ²		1=0.47	
Heat Conduction	Opaque Wall	5.66W/m ²				5.6W/m ²				11.31W/m ²				4.01W/m ²			
	Window	0.02W/m ²				0.47W/m ²				0W/m ²				0.63W/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 checked="" type="checkbox"/> Tinted	Area= 11.95m ²	SC= 0.49	VLT=53% ER=18%	<input checked="" type="checkbox"/> Tinted	Area= 269.86m ²	SC= 0.49	VLT=53% ER=18%	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT=% ER=%	<input checked="" type="checkbox"/> Tinted	Area= 96.22m ²	SC= 0.49	VLT=53% ER=18%
		<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=%	<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		<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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 checked="" type="checkbox"/> No		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 checked="" type="checkbox"/> No			
Solar Radiation through Gazing		0.38W/m ²		8.14W/m ²		0.00W/m ²		10.87W/m ²		10.87W/m ²		10.87W/m ²		10.87W/m ²			
Average Absorptivity		0.95		0.95		0.9		1		1		1		1			
RTTV _{wall} at each façade		6.06W/m ²		14.21W/m ²		11.31W/m ²		15.51W/m ²		11.48W/m ²		11.48W/m ²		11.48W/m ²			
Overall RTTV _{wall}										11.48W/m ²		11.48W/m ²		11.48W/m ²			

Table 3

RTTV Roof											
Roof Orientation Factor		2.16									
Total Roof Area (Residential Units)		48.68m ²									
Total Skylight Area		0m ²									
Heat Conduction	Roof	2.8W/m ²									
	Skylight	0W/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= %
Gouble 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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 checked="" type="checkbox"/> No			
Solar Radiation though Glazing		0W/m ²		0.7		2.8W/m ²		2.8W/m ²			
Average Absorptivity (roof)				0.7		2.8W/m ²		2.8W/m ²			
Overall RTTV _{Roof}				0.7		2.8W/m ²		2.8W/m ²			

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

Note :

- Please tick in the box as appropriate
- Window and skylight data should be represent the major proportion of its use in the development.

(9/2014)

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