

Address: <b>48 Caine Road, Hong Kong</b>		BD Ref. No. <b>2/2024/13</b>
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input checked="" type="checkbox"/> 2. Architect	
	<input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	<b>6/F to 30/F, (13/F, 14/F and 24/F are omitted) total 22 nos. of floor</b>	

**Table 1**

Deemed to Satisfy RTTV <sub>Wall</sub>								
Facade Orientation Facing	NW	NE	SE	SE				
Average Absorptivity	<b>0.94</b>	<b>0.93</b>	<b>0.95</b>	<b>0.92</b>				
Average Window to Wall Ratio	<b>0.283</b>	<b>0.168</b>	<b>0.40</b>	<b>0.524</b>				
Shading Coefficient of Glazing	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>				
Average Shading Coefficient of Facade	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>				
Visible Light Transmittance	<b>50</b> %	<b>50</b> %	<b>50</b> %	<b>50</b> %	%	%	%	%
External Reflectance	<b>6</b> %	<b>6</b> %	<b>6</b> %	<b>6</b> %	%	%	%	%

**Table 2**

RTTV <sub>Wall</sub>																	
Facade Orientation Facing		North West				North East				South West				South East			
Wall Orientation Factor		<b>0.965</b>				<b>0.924</b>				<b>1.092</b>				<b>1.051</b>			
Total External Wall Area (Residential Units)		<b>277.2</b> m <sup>2</sup>		Window to Wall Ratio = <b>0.283</b>		<b>185.90</b> m <sup>2</sup>		Window to Wall Ratio = <b>0.168</b>		<b>614.24</b> m <sup>2</sup>		Window to Wall Ratio = <b>0.40</b>		<b>649.69</b> m <sup>2</sup>		Window to Wall Ratio = <b>0.524</b>	
Total Window Factor		<b>78.32</b> m <sup>2</sup>				<b>31.24</b> m <sup>2</sup>				<b>247.06</b> m <sup>2</sup>				<b>340.37</b> m <sup>2</sup>			
Heat Conduction	Opaque Wall	<b>4.54</b> W/m <sup>2</sup>				<b>4.84</b> W/m <sup>2</sup>				<b>5.18</b> W/m <sup>2</sup>				<b>3.86</b> W/m <sup>2</sup>			
	Window	<b>0.82</b> W/m <sup>2</sup>				<b>0.51</b> W/m <sup>2</sup>				<b>1.19</b> W/m <sup>2</sup>				<b>1.63</b> W/m <sup>2</sup>			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= % ER= %
		<input checked="" type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= <b>0.68</b>	VLT= <b>50</b> % ER= <b>6</b> %	<input checked="" type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= <b>0.68</b>	VLT= <b>50</b> % ER= <b>6</b> %	<input checked="" type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= <b>0.68</b>	VLT= <b>50</b> % ER= <b>6</b> %	<input checked="" type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC= <b>0.68</b>	VLT= <b>50</b> % ER= <b>6</b> %
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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		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	
Solar Radiation through Glazing		<b>6.62</b> W/m <sup>2</sup>				<b>3.61</b> W/m <sup>2</sup>				<b>7.71</b> W/m <sup>2</sup>				<b>10.54</b> W/m <sup>2</sup>			
Average Absorptivity		<b>0.94</b>				<b>0.93</b>				<b>0.95</b>				<b>0.92</b>			
RTTV <sub>Wall</sub> at each facade		<b>11.98</b> W/m <sup>2</sup>				<b>8.95</b> W/m <sup>2</sup>				<b>14.08</b> W/m <sup>2</sup>				<b>16.03</b> W/m <sup>2</sup>			
Overall RTTV <sub>Wall</sub>		<b>13.92</b> W/m <sup>2</sup>															

**Table 3**

RTTV <sub>Roof</sub>							
Roof Orientation Factor							
Total Roof Area (Residential Units)		<b>34.72</b> m <sup>2</sup>					
Total Skylight Area		<b>Nil</b> m <sup>2</sup>					
Heat Conduction	Roof	<b>1.99</b> W/m <sup>2</sup>					
	Skylight	<b>Nil</b> W/m <sup>2</sup>					
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	
		<input type="checkbox"/> Tinted	Area= m <sup>2</sup>	SC=	VLT= %	ER= %	
		<input type="checkbox"/> Clear	Area= m <sup>2</sup>	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		<b>Nil</b> W/m <sup>2</sup>					
Average Absorptivity (roof)		<b>0.61</b>					
Overall RTTV <sub>Roof</sub>		<b>1.99</b> W/m <sup>2</sup>					