

RTTV Summary Sheet

Address: **NKIL 6558 - One Kowloon Road** BD Ref. No. _____

Building Type: Residential

RTTV calculated by: 1. Registered Professional Engineers
 2. Architect
 3. Others, please specify: _____

No. of Storeys (Residential Units): **20**

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	South-west				South-east				North-east				North-west			
Wall Orientation Factor	1.092				1.051				0.924				0.965			
Total External Wall Area (Residential Units)	485.8 m ²				317.51 m ²				1682.95 m ²				659.3 m ²			
Total Window Area	167.95 m ²				60.24 m ²				919.08 m ²				260.65 m ²			
Window to Wall Ratio	= 0.35				= 0.19				= 0.55				= 0.40			
Heat Conduction	5.9 W/m ²				5.98 W/m ²				5.28 W/m ²				4.1 W/m ²			
Window	0.74 W/m ²				0.66 W/m ²				0.88 W/m ²				0.84 W/m ²			
Window	Glass Type <input type="checkbox"/> Reflective <input checked="" type="checkbox"/> Tinted <input type="checkbox"/> Clear				Glass Type <input type="checkbox"/> Reflective <input checked="" type="checkbox"/> Tinted <input type="checkbox"/> Clear				Glass Type <input type="checkbox"/> Reflective <input checked="" type="checkbox"/> Tinted <input type="checkbox"/> Clear				Glass Type <input type="checkbox"/> Reflective <input checked="" type="checkbox"/> Tinted <input type="checkbox"/> Clear			
	Area=	SC=	VLT=	ER=	Area=	SC=	VLT=	ER=	Area=	SC=	VLT=	ER=	Area=	SC=	VLT=	ER=
	167.95 m ²				60.24 m ²				918 m ²				260.39 m ²			
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 Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Glazing	6.29 W/m ²				5.57 W/m ²				8.85 W/m ²				7.90 W/m ²			
Average Absorptivity	0.7				0.7				0.7				0.7			
RTTV _{wall} at each facade	12.93 W/m ²				12.22 W/m ²				15.01 W/m ²				12.84 W/m ²			
Overall RTTV _{wall}	13.95 W/m ²				13.95 W/m ²				15.01 W/m ²				12.84 W/m ²			

Table 3

RTTV_{roof}

Roof Orientation Factor	2.16	
Total Roof Area (Residential Units)	141.8 m ²	
Total Skylight Area	0 m ²	
Heat Conduction	2.64 W/m ²	
Skylight	0 W/m ²	
Skylight	Glass Type	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input type="checkbox"/> Clear
	Area=	0 m ²
	SC=	0
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)	0.85	
Overall RTTV _{roof}	2.64 W/m ²	

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

Notes :

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