

RTTV Summary Sheet

Address: PROPOSED COMPOSITE BUILDING AT NO. 22 DAVIS STREET, H.K. ON I.L. 905 s.A.ss.11R.P., s.A ss.11s.A&s.A R.P.		BD Ref. No. BD 2/2026/18
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)	20	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	North	East	South	West					
Average Absorptivity	0.813	0.712	0.813	0.801					
Average Window to Wall Ratio	0.12	0.43	0.12	0.29					
Shading Coefficient of Glazing	0.64/0.71	0.71	0.64/0.71	0.64/0.71					
Average Shading Coefficient of Facade	0.64	0.71	0.64	0.67					
Visible Light Transmittance	54/56%	56 %	54/56%	54/56%	%	%	%	%	%
External Reflectance	6/6 %	6 %	6/6 %	6/6 %	%	%	%	%	%

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North				East				South				West			
Wall Orientation Factor		0.79				1.072				0.975				1.131			
Total External Wall Area (Residential Units)		307.66 m ²		Window to Wall Ratio		327.03 m ²		Window to Wall Ratio		307.66 m ²		Window to Wall Ratio		811.28 m ²		Window to Wall Ratio	
Total Window Area		38.26 m ²		= 0.124		139.09 m ²		= 0.425		38.26 m ²		= 0.124		236.88 m ²		= 0.292	
Heat Conduction	Opaque Wall	3.88 W/m ²				5.23 W/m ²				4.79 W/m ²				5.35 W/m ²			
	Window	0.33 W/m ²				1.68 W/m ²				0.41 W/m ²				1.16 W/m ²			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %
		<input checked="" type="checkbox"/> Tinted	Area= 37.10 m ²	SC= 0.64	VLT= 54 %	<input checked="" type="checkbox"/> Tinted	Area= 139.09 m ²	SC= 0.71	VLT= 56 %	<input checked="" type="checkbox"/> Tinted	Area= 37.10 m ²	SC= 0.64	VLT= 54 %	<input checked="" type="checkbox"/> Tinted	Area= 126.58 m ²	SC= 0.64	VLT= 54 %
		<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %	<input type="checkbox"/> Clear	Area= m ²	SC=	VLT= %
		<input type="checkbox"/> ER= %				<input type="checkbox"/> ER= %				<input type="checkbox"/> ER= %				<input type="checkbox"/> ER= %			
Double Glazing		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" 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 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			
		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		2.63 W/m ²				13.52 W/m ²				3.25 W/m ²				9.27 W/m ²			
Average Absorptivity		0.813				0.712				0.813				0.801			
RTTV _{Wall} at each facade		6.84 W/m ²				20.42 W/m ²				8.45 W/m ²				15.79 W/m ²			
Overall RTTV _{Wall}		13.79 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor		2.16				
Total Roof Area (Residential Units)		40.03 m ²				
Total Skylight Area		N/A m ²				
Heat Conduction	Roof	2.83 W/m ²				
	Skylight	N/A W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	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= %
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		N/A W/m ²				
Average Absorptivity (roof)		0.7				
Overall RTTV _{Roof}		2.83 W/m ²				

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

Notes :

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