

RTTV Summary Sheet

Address: Proposed Residential Development at 38 South Lantau Road, Lot 763 in DD332, Cheung Sha, Lantau Island		BD Ref. No.
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)	2	

Table 1

Deemed to Satisfy RTTV_{Wall}

Façade Orientation Facing	North	East	South	West				
Average Absorptivity	0.43	0.30	0.55	0.30				
Shading Coefficient of Glazing	0.50, 0.48	0.50	0.50, 0.48	0.50				
Average Shading Coefficient of Façade	--	--	--	--				
Visible Light Transmittance	55%, 53%	55%	54%, 55%, 53%	55%				
External Reflectance	14%, 13%	14%	14%, 13%	14%				

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)	142.7 m²		Window to Wall Ratio		135.9 m²		Window to Wall Ratio		117.1 m²		Window to Wall Ratio		132.2 m²		Window to Wall Ratio						
Total Window Area	40.00 m²		0.280		1.20 m²		0.009		72.80 m²		0.622		2.90 m²		0.022						
Heat Conduction	Opaque Wall	1.09 W/m ²				1.34 W/m ²				0.85 W/m ²				1.41 W/m ²							
	Window	0.26 W/m ²				0.01 W/m ²				0.71 W/m ²				0.03 W/m ²							
Window	Glass Type	<input type="checkbox"/> Tempered	Area (m ²)	SC=	VLT= %	ER = %	<input type="checkbox"/> Tempered	Area (m ²)	SC=	VLT= %	ER = %	<input type="checkbox"/> Tempered	Area (m ²)	SC=	VLT= %	ER = %	<input type="checkbox"/> Tempered	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 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							
External Shading	Overhang	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
	Sidefin	<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							
Solar Radiation through	4.56 W/m ²				0.20 W/m ²				11.57 W/m ²				0.52 W/m ²								
Average Absorptivity	0.43				0.30				0.55				0.30								
RTTV _{Wall} at each façade	5.91 W/m ²				1.55 W/m ²				13.14 W/m ²				1.96 W/m ²								
Overall RTTV _{Wall}					5.40 W/m ²																

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16								
Total Roof Area (Residential Units)	269.37 m ²								
Total Skylight Area	0.00 m ²								
Heat Conduction	Roof	2.85 W/m ²							
	Skylight	0.00 W/m ²							
Window	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 type="checkbox"/> No								
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No								
Solar Radiation through	0.00 W/m ²								
Average Absorptivity	0.70								
Overall RTTV _{Roof}	2.85 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.