



RTTV Summary Sheet

Notes:

ER = External Reflectance

SC = Shading Coefficient

VLT = Visible Light Transmittance

Window and skylight data should represent the major proportion of its use in the development.

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Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 1)	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.27	0.17	0.45	0.16					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.41	0.41	0.41	0.41					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

Table 2																					
RTTV _{Wall}																					
Facade Orientation Facing		Northeast					Southeast					Southwest				Northwest					
Wall Orientation Factor		0.924					1.051					1.092				0.965					
Total External Wall Area (Residential Units)		166.17 m ²		Window to Wall Ratio = 0.27			172.58 m ²		Window to Wall Ratio = 0.17			239.04 m ²		Window to Wall Ratio = 0.45		124.08 m ²		Window to Wall Ratio = 0.16			
Total Window Factor		45.06 m ²					29.26 m ²					107.4 m ²					20.02 m ²				
Heat Conduction	Opaque Wall	3.8 W/m ²					4.93 W/m ²					3.4 W/m ²				4.57 W/m ²					
	Window	0.24 W/m ²					0.17 W/m ²					0.47 W/m ²				0.15 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 45.06 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 29.26 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 107.4 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 20.02 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				☐ Yes ☒ No					
External Shading	Overhang	☒ Yes ☐ No					☐ Yes ☒ No					☒ Yes ☐ No				☐ Yes ☒ No					
	Sidewind	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				☐ Yes ☒ No					
Solar Radiation through Glazing		3.98 W/m ²					3.05 W/m ²					7.4 W/m ²				2.67 W/m ²					
Average Absorptivity		0.42					0.42					0.42				0.42					
RTTV _{Wall} at each facade		8.03 W/m ²					8.15 W/m ²					11.28 W/m ²				7.39 W/m ²					
Overall RTTV _{Wall}		9.05 W/m ²																			

Table 3

Table 3										
RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		255 m ²								
Total Skylight Area		0 m ²								
Heat Conduction	Roof	2.89 W/m ²								
	Skylight	0 W/m ²								
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=		VLT=	%	ER=	%
		☒ Tinted	Area=	m ²	SC=		VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=		VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No								
	External Shading	☐ Yes ☒ No								
	Solar Radiation through Glazing		0 W/m ²							
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.89 W/m ²								



RTTV Summary Sheet

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Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 2)	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	South west	North west					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.26	0.26	0.52	0.19					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.38	0.41	0.36	0.41					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

Table 2																			
RTTV _{Wall}																			
Facade Orientation Facing		Northeast				Southeast				South west				Northwest					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		195.54 m ²		Window to Wall Ratio = 0.26		175.77 m ²		Window to Wall Ratio = 0.26		221.44 m ²		Window to Wall Ratio = 0.52		95.35 m ²		Window to Wall Ratio = 0.19			
Total Window Factor		49.9 m ²				45.53 m ²				115.48 m ²				17.85 m ²					
Heat Conduction	Opaque Wall	3.89 W/m ²				4.4 W/m ²				2.95 W/m ²				4.43 W/m ²					
	Window	0.23 W/m ²				0.26 W/m ²				0.55 W/m ²				0.17 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	Area= m ²	SC=	VLT= %	☐ Reflective	Area= m ²	SC=	VLT= %		
		☒ Tinted	Area= 44.9 m ²	SC= 0.41	VLT= 61 %	☒ Tinted	Area= 45.53 m ²	SC= 0.41	VLT= 61 %	☒ Tinted	Area= 115.48 m ²	SC= 0.41	VLT= 61 %	☒ Tinted	Area= 17.85 m ²	SC= 0.41	VLT= 61 %		
		☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %	☐ Clear	Area= m ²	SC=	VLT= %		
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No					
		External Shading	Overhang		☒ Yes ☐ No	Overhang		☐ Yes ☒ No	Overhang		☒ Yes ☐ No	Overhang		☐ Yes ☒ No					
			Sidefin		☐ Yes ☒ No	Sidefin		☐ Yes ☒ No	Sidefin		☐ Yes ☒ No	Sidefin		☐ Yes ☒ No					
	Solar Radiation through Glazing		3.77 W/m ²				4.66 W/m ²				8.6 W/m ²				3.09 W/m ²				
	Average Absorptivity		0.42				0.42				0.42				0.42				
	RTTV _{Wall} at each facade		7.88 W/m ²				9.32 W/m ²				12.11 W/m ²				7.7 W/m ²				
	Overall RTTV _{Wall}		9.58 W/m ²																

Table 3

Table 3									
RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		246.07 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



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 Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG BD Ref. No. _____

Building Type: Residential

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

No. of Storeys (Residential Units): 3 (House 3)

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.42					
Average Window to Wall Ratio	0.19	0.3	0.18	0.38					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.41	0.36	0.41	0.37					
Visible Light Transmittance	61 %	61 %	61 %	61 %		%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %		%	%	%	%

Table 2

RTTV _{Wall}																		
Facade Orientation Facing		Northeast				Southeast				Southwest				Northwest				
Wall Orientation Factor		0.924				1.051				1.092				0.965				
Total External Wall Area (Residential Units)		114.27 m ²		Window to Wall Ratio = 0.19		135.59 m ²		Window to Wall Ratio = 0.3		148.95 m ²		Window to Wall Ratio = 0.18		230.3 m ²		Window to Wall Ratio = 0.38		
		22.16 m ²				40.22 m ²				26.81 m ²				87.58 m ²				
Total Window Factor		22.16 m ²				40.22 m ²				26.81 m ²				87.58 m ²				
Heat Conduction	Opaque Wall	4.21 W/m ²				4.18 W/m ²				5.06 W/m ²				3.38 W/m ²				
	Window	0.17 W/m ²				0.3 W/m ²				0.19 W/m ²				0.35 W/m ²				
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	
		☒ Tinted	Area= 22.16 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 40.22 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 26.81 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 87.58 m ²	SC= 0.41	VLT= 61 % ER= 15 %	
		☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				
		External Shading	Overhang ☐ Yes ☒ No				Overhang ☒ Yes ☐ No				Overhang ☐ Yes ☒ No				Overhang ☒ Yes ☐ No			
	Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No				Sidefin ☐ Yes ☒ No					
	Solar Radiation through Glazing		3.07 W/m ²				4.71 W/m ²				3.36 W/m ²				5.04 W/m ²			
	Average Absorptivity		0.42				0.42				0.42				0.42			
RTTV _{Wall} at each facade		7.45 W/m ²				9.18 W/m ²				8.61 W/m ²				8.78 W/m ²				
Overall RTTV _{Wall}		8.58 W/m ²																

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		213 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



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Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 5)	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.14	0.47	0.17	0.26					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.41	0.36	0.41	0.38					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		Northeast				Southeast				Southwest				Northwest							
Wall Orientation Factor		0.924				1.051				1.092				0.965							
Total External Wall Area (Residential Units)		126.8 m ²		Window to Wall Ratio = 0.14		166.2 m ²		Window to Wall Ratio = 0.47		81.34 m ²		Window to Wall Ratio = 0.17		130.27 m ²		Window to Wall Ratio = 0.26					
Total Window Factor		17.14 m ²				77.6 m ²				13.9 m ²				34.42 m ²							
Heat Conduction		Opaque Wall		4.51 W/m ²		3.17 W/m ²				5.12 W/m ²				4.01 W/m ²							
		Window		0.12 W/m ²		0.47 W/m ²				0.18 W/m ²				0.25 W/m ²							
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 17.14 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 77.6 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 13.9 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 34.42 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing		☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No						
External Shading		Overhang		☐ Yes ☒ No		Overhang		☒ Yes ☐ No		Overhang		☐ Yes ☒ No		Overhang		☒ Yes ☐ No					
		Sidefin		☐ Yes ☒ No		Sidefin		☐ Yes ☒ No		Sidefin		☐ Yes ☒ No		Sidefin		☐ Yes ☒ No					
Solar Radiation through Glazing		2.14 W/m ²				6.58 W/m ²				3.19 W/m ²				4 W/m ²							
Average Absorptivity		0.42				0.42				0.42				0.42							
RTTV _{Wall} at each facade		6.77 W/m ²				10.22 W/m ²				8.49 W/m ²				8.26 W/m ²							
Overall RTTV _{Wall}		8.57 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		130.5 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



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Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House b)	

Table 1 Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.42					
Average Window to Wall Ratio	0.19	0.3	0.18	0.38					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.41	0.36	0.41	0.37					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2																					
RTTV _{Wall}																					
Facade Orientation Facing		Northeast				Southeast				Southwest				Northwest							
Wall Orientation Factor		0.924				1.051				1.092				0.965							
Total External Wall Area (Residential Units)		114.27 m ²		Window to Wall Ratio = 0.19		135.59 m ²		Window to Wall Ratio =		148.95 m ²		Window to Wall Ratio = 0.18		230.3 m ²		Window to Wall Ratio = 0.38					
Total Window Factor		22.16 m ²				40.22 m ²				26.81 m ²				87.58 m ²							
Heat Conduction	Opaque Wall	4.21 W/m ²				4.18 W/m ²				5.06 W/m ²				3.38 W/m ²							
	Window	0.17 W/m ²				0.3 W/m ²				0.19 W/m ²				0.35 W/m ²							
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 22.16 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 40.22 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 26.81 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 87.58 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No							
	External Shading	Overhang	☐ Yes ☒ No				☒ Yes ☐ No				☐ Yes ☒ No				☒ Yes ☐ No						
Sidefin		☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No							
Solar Radiation through Glazing		3.07 W/m ²				4.71 W/m ²				3.36 W/m ²				5.04 W/m ²							
Average Absorptivity		0.42				0.42				0.42				0.42							
RTTV _{Wall} at each facade		7.45 W/m ²				9.18 W/m ²				8.61 W/m ²				8.78 W/m ²							
Overall RTTV _{Wall}		8.58 W/m ²																			

Table 3									
RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		213 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



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Appendix A

Address: <u>JUNCTION OF SHOUJON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG</u>		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	<u>3 (House 7)</u>	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	South west	North west					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.12	0.3	0.15	0.44					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.41	0.36	0.41	0.38					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

Table 2

RTTV_{Wall}

Facade Orientation Facing		Northeast				Southeast				Southwest				Northwest							
Wall Orientation Factor		0.924				1.051				1.092				0.965							
Total External Wall Area (Residential Units)		101.42 m ²		Window to Wall Ratio = 0.12		134.46 m ²		Window to Wall Ratio = 0.13		143.93 m ²		Window to Wall Ratio = 0.15		199.49 m ²		Window to Wall Ratio =					
Total Window Factor		12.6 m ²		0.12		40.32 m ²		0.13		21.7 m ²		0.15		87.12 m ²							
Heat Conduction	Opaque Wall	4.57 W/m ²				4.16 W/m ²				5.24 W/m ²				3.07 W/m ²							
	Window	0.11 W/m ²				0.3 W/m ²				0.16 W/m ²				0.41 W/m ²							
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 12.6 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 40.32 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 21.7 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 87.12 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No							
	External Shading	Overhang	☐ Yes ☒ No				☒ Yes ☐ No				☐ Yes ☒ No				☒ Yes ☐ No						
Sidefin		☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No							
Solar Radiation through Glazing		1.97 W/m ²				4.76 W/m ²				2.82 W/m ²				5.91 W/m ²							
Average Absorptivity		0.42				0.42				0.42				0.42							
RTTV _{Wall} at each facade		6.65 W/m ²				9.22 W/m ²				8.22 W/m ²				9.39 W/m ²							
Overall RTTV _{Wall}		8.58 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		167 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



RTTV Summary Sheet

Notes:

ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

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 Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 8)	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.35	0.1	0.54	0.09					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		Northeast					Southeast					Southwest					Northwest				
Wall Orientation Factor		0.924					1.051					1.092					0.965				
Total External Wall Area (Residential Units)		52.07 m ²		Window to Wall Ratio = 0.35			117.66 m ²		Window to Wall Ratio = 0.1			81.23 m ²		Window to Wall Ratio = 0.54			84.93 m ²		Window to Wall Ratio =		
Total Window Factor		18.05 m ²					11.54 m ²					44.11 m ²					8.33 m ²				
Heat Conduction	Opaque Wall	3.41 W/m ²					5.35 W/m ²					2.82 W/m ²					4.95 W/m ²				
	Window	0.31 W/m ²					0.1 W/m ²					0.57 W/m ²					0.09 W/m ²				
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 18.95 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 11.54 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 44.11 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 8.33 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
External Shading	Overhang	☒ Yes ☐ No					☐ Yes ☒ No					☒ Yes ☐ No					☐ Yes ☒ No				
	Sidewall	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
Solar Radiation through Glazing		5.09 W/m ²					1.77 W/m ²					8.74 W/m ²					1.53 W/m ²				
Average Absorptivity		0.42					0.42					0.42					0.42				
RTTV _{Wall} at each facade		8.81 W/m ²					7.22 W/m ²					12.13 W/m ²					6.56 W/m ²				
Overall RTTV _{Wall}		8.46 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		63.5 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m ²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



RTTV Summary Sheet

Notes:

ER = External Reflectance

SC = Shading Coefficient

VLT = Visible Light Transmittance

Window and skylight data should represent the major proportion of its use in the development.

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Appendix A

Address: JUNCTION OF SHAU HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 4)	

Table 1 Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.35	0.1	0.54	0.09					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2																			
RTTV _{Wall}																			
Facade Orientation Facing		Northeast				Southeast				Southwest				Northwest					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		52.07 m ²		Window to Wall Ratio = 0.35		117.66 m ²		Window to Wall Ratio = 0.1		81.23 m ²		Window to Wall Ratio =		89.93 m ²		Window to Wall Ratio =			
Total Window Factor		18.05 m ²				11.54 m ²				44.11 m ²				8.33 m ²					
Heat Conduction	Opaque Wall	3.41 W/m ²				5.35 W/m ²				2.82 W/m ²				4.95 W/m ²					
	Window	0.31 W/m ²				0.1 W/m ²				0.57 W/m ²				0.09 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %	☐ Reflective	Area= m ²	SC=	VLT= % ER= %		
		☒ Tinted	Area= 18.05 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 11.54 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 44.11 m ²	SC= 0.41	VLT= 61 % ER= 15 %	☒ Tinted	Area= 8.33 m ²	SC= 0.41	VLT= 61 % ER= 15 %		
		☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %		
	Double Glazing	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No					
External Shading	Overhang	☒ Yes ☐ No				☐ Yes ☒ No				☒ Yes ☐ No				☐ Yes ☒ No					
	Sidefin	☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No				☐ Yes ☒ No					
Solar Radiation through Glazing		5.09 W/m ²				1.77 W/m ²				8.74 W/m ²				1.53 W/m ²					
Average Absorptivity		0.42				0.42				0.42				0.42					
RTTV _{Wall} at each facade		8.81 W/m ²				7.22 W/m ²				12.13 W/m ²				6.56 W/m ²					
Overall RTTV _{Wall}		W/m ²																	

Table 3										
RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		63.5 m ²								
Total Skylight Area		0 m ²								
Heat Conduction	Roof	2.89 W/m ²								
	Skylight	0 W/m ²								
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=		VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=		VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=		VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No								
	External Shading	☐ Yes ☒ No								
	Solar Radiation through Glazing	0 W/m ²								
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.89 W/m ²								



RTTV Summary Sheet

Notes:

ER = External Reflectance

SC = Shading Coefficient

VLT = Visible Light Transmittance

Window and skylight data should represent the major proportion of its use in the development.

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Appendix A

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 10)	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest					
Average Absorptivity	0.42	0.3	0.42	0.3					
Average Window to Wall Ratio	0.32	0.12	0.55	0.08					
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41					
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41					
Visible Light Transmittance	61 %	61 %	61 %	61 %					
External Reflectance	15 %	15 %	15 %	15 %					

Table 2

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		Northeast					Southeast					South west					Northwest				
Wall Orientation Factor		0.924					1.051					1.042					0.965				
Total External Wall Area (Residential Units)		57.96 m ²		Window to Wall Ratio			147.34 m ²		Window to Wall Ratio			85.75 m ²		Window to Wall Ratio			115.98 m ²		Window to Wall Ratio		
Total Window Factor		18.82 m ²		= 0.32			18.35 m ²		= 0.12			47 m ²		= 0.55			9.44 m ²		=		
Heat Conduction	Opaque Wall	3.52 W/m ²					5.2 W/m ²					2.79 W/m ²					5.01 W/m ²				
	Window	0.29 W/m ²					0.13 W/m ²					0.58 W/m ²					0.08 W/m ²				
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	18.82 m ²	0.41	61 %	15 %	☒ Tinted	18.35 m ²	0.41	61 %	15 %	☒ Tinted	47 m ²	0.41	61 %	15 %	☒ Tinted	9.44 m ²	0.41	61 %	15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
	External Shading	Overhang	☒ Yes ☐ No			☐ Yes ☒ No			☒ Yes ☐ No			☐ Yes ☒ No			☐ Yes ☒ No						
		Sidefin	☐ Yes ☒ No			☐ Yes ☒ No			☐ Yes ☒ No			☐ Yes ☒ No			☐ Yes ☒ No						
Solar Radiation through Glazing		4.76 W/m ²					2.24 W/m ²					8.76 W/m ²					1.35 W/m ²				
Average Absorptivity		0.42					0.42					0.42					0.42				
RTTV _{Wall} at each facade		8.58 W/m ²					7.57 W/m ²					12.13 W/m ²					6.43 W/m ²				
Overall RTTV _{Wall}		8.35 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		87.6 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
Solar Radiation through Glazing		0 W/m ²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

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 Appendix **A**

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 11)	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest				
Average Absorptivity	0.42	0.3	0.42	0.3				
Average Window to Wall Ratio	0.32	0.12	0.55	0.08				
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41				
Average Shading Coefficient of Facade	0.138	0.41	0.35	0.41				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																									
Facade Orientation Facing		Northeast						Southeast						Southwest						Northwest					
Wall Orientation Factor		0.924						1.051						1.092						0.965					
Total External Wall Area (Residential Units)		57.96 m ²		Window to Wall Ratio =		0.32		147.34 m ²		Window to Wall Ratio =				85.75 m ²		Window to Wall Ratio =		0.55		115.98 m ²		Window to Wall Ratio =		0.08	
Total Window Factor		18.82 m ²						18.35 m ²						47 m ²						9.44 m ²					
Heat Conduction	Opaque Wall	3.52 W/m ²						5.2 W/m ²						2.79 W/m ²						5.01 W/m ²					
	Window	0.29 W/m ²						0.13 W/m ²						0.58 W/m ²						0.08 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %				
		☒ Tinted	Area= 8.82 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 18.35 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 47 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 9.44 m ²	SC= 0.41	VLT= 61 %	ER= 15 %				
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %				
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No								
	External Shading	Overhang	☒ Yes ☐ No				Overhang	☐ Yes ☒ No				Overhang	☒ Yes ☐ No				Overhang	☐ Yes ☒ No							
		Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No							
Solar Radiation through Glazing		4.76 W/m ²						2.24 W/m ²						8.76 W/m ²						1.35 W/m ²					
Average Absorptivity		0.42						0.42						0.42						0.42					
RTTV _{Wall} at each facade		8.58 W/m ²						7.57 W/m ²						12.13 W/m ²						6.43 W/m ²					
Overall RTTV _{Wall}		8.35 W/m ²																							

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		87.6 m²							
Total Skylight Area		0 m²							
Heat Conduction	Roof	2.89 W/m²							
	Skylight	0 W/m²							
Skylight	Glass Type	☐ Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m²							



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

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 Appendix A**

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 12)	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	North-east	Southeast	Southwest	North-west				
Average Absorptivity	0.42	0.3	0.42	0.3				
Average Window to Wall Ratio	0.32	0.12	0.55	0.08				
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41				
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																										
Facade Orientation Facing		Northeast						Southeast						Southwest						Northwest						
Wall Orientation Factor		0.924						1.051						1.092						0.965						
Total External Wall Area (Residential Units)		57.96 m ²		Window to Wall Ratio = 0.32				147.34 m ²		Window to Wall Ratio = 0.12				85.75 m ²		Window to Wall Ratio = 0.55				115.98 m ²		Window to Wall Ratio = 0.08				
Total Window Factor		18.82 m ²						18.35 m ²						47 m ²						9.49 m ²						
Heat Conduction	Opaque Wall	3.52 W/m ²						5.2 W/m ²						2.79 W/m ²						5.01 W/m ²						
	Window	0.29 W/m ²						0.13 W/m ²						0.58 W/m ²						0.08 W/m ²						
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %					
		☒ Tinted	Area= 18.82 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 18.35 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 47 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 9.49 m ²	SC= 0.41	VLT= 61 %	ER= 15 %					
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %					
	Double Glazing	☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						
	External Shading	Overhang	☒ Yes ☐ No						☐ Yes ☒ No						☒ Yes ☐ No						☐ Yes ☒ No					
		Sidefin	☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No					
Solar Radiation through Glazing		4.76 W/m ²						2.24 W/m ²						8.76 W/m ²						1.35 W/m ²						
Average Absorptivity		0.42						0.42						0.42						0.42						
RTTV _{Wall} at each facade		8.58 W/m ²						7.57 W/m ²						12.13 W/m ²						6.43 W/m ²						
Overall RTTV _{Wall}		8.35 W/m ²																								

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		87.6 m²								
Total Skylight Area		0 m²								
Heat Conduction	Roof	2.89 W/m²								
	Skylight	0 W/m²								
Skylight	Glass Type	☐ Reflective	Area=	m²	SC=		VLT=	%	ER=	%
		☐ Tinted	Area=	m²	SC=		VLT=	%	ER=	%
		☐ Clear	Area=	m²	SC=		VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No								
	External Shading	☐ Yes ☒ No								
Solar Radiation through Glazing		0 W/m²								
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.89 W/m²								



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

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 Appendix A**

Address: JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 15)	

Table 1

Deemed to Satisfy RTTV _{Wall}							
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest			
Average Absorptivity	0.42	0.3	0.42	0.3			
Average Window to Wall Ratio	0.32	0.12	0.55	0.08			
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41			
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41			
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%

Table 2

Table 2

RTTV _{Wall}																						
Facade Orientation Facing		Northeast					Southeast					Southwest					North west					
Wall Orientation Factor		0.924					1.051					1.092					0.965					
Total External Wall Area (Residential Units)		57.96 m ²		Window to Wall Ratio			147.34 m ²		Window to Wall Ratio			85.75 m ²		Window to Wall Ratio			115.98 m ²		Window to Wall Ratio			
Total Window Factor		18.82 m ²		= 0.32			18.35 m ²		= 0.12			47 m ²		= 0.55			9.49 m ²		= 0.08			
Heat Conduction	Opaque Wall	3.52 W/m ²					5.2 W/m ²					2.79 W/m ²					5.01 W/m ²					
	Window	0.29 W/m ²					0.13 W/m ²					0.58 W/m ²					0.08 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	
		☒ Tinted	Area= 8.82 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 8.35 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 47 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 9.49 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					
	External Shading	Overhang	☒ Yes ☐ No					☐ Yes ☒ No					☒ Yes ☐ No					☐ Yes ☒ No				
		Sidefin	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
Solar Radiation through Glazing		4.76 W/m ²					2.24 W/m ²					8.76 W/m ²					1.35 W/m ²					
Average Absorptivity		0.42					0.42					0.42					0.42					
RTTV _{Wall} at each facade		8.58 W/m ²					7.57 W/m ²					12.13 W/m ²					6.43 W/m ²					
Overall RTTV _{Wall}		8.35 W/m ²																				

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		87.6 m²							
Total Skylight Area		0 m²							
Heat Conduction	Roof	2.89 W/m²							
	Skylight	0 W/m²							
Skylight	Glass Type	☐ Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
	Solar Radiation through Glazing		0 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m²							



RTTV Summary Sheet

Notes:
 ER = External Reflectance
 SC = Shading Coefficient
 VLT = Visible Light Transmittance
 Window and skylight data should represent the major proportion of its use in the development.

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 Appendix A**

Address: JUNCTION OF SHAU HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	3 (House 16)	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest				
Average Absorptivity	0.42	0.13	0.42	0.13				
Average Window to Wall Ratio	0.35	0.1	0.54	0.09				
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41				
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

RTTV _{Wall}																										
Facade Orientation Facing		Northeast						Southeast						Southwest						Northwest						
Wall Orientation Factor		0.924						1.051						1.092						0.965						
Total External Wall Area (Residential Units)		52.07 m ²						117.66 m ²						81.23 m ²						89.93 m ²						
Total Window Factor		18.05 m ² = 0.35						11.54 m ² = 0.1						44.11 m ² = 0.54						8.33 m ² = 0.09						
Heat Conduction	Opaque Wall	3.41 W/m ²						5.35 W/m ²						2.82 W/m ²						4.95 W/m ²						
	Window	0.31 W/m ²						0.1 W/m ²						0.57 W/m ²						0.09 W/m ²						
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %					
		☒ Tinted	8.95 m ²	0.41	61 %	15 %	☒ Tinted	11.54 m ²	0.41	61 %	15 %	☒ Tinted	44.11 m ²	0.41	61 %	15 %	☒ Tinted	8.33 m ²	0.41	61 %	15 %					
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %					
	Double Glazing	☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						
	External Shading	Overhang	☒ Yes ☐ No						☐ Yes ☒ No						☒ Yes ☐ No						☐ Yes ☒ No					
		Sidefin	☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No						☐ Yes ☒ No					
Solar Radiation through Glazing		5.09 W/m ²						1.77 W/m ²						8.74 W/m ²						1.53 W/m ²						
Average Absorptivity		0.42						0.42						0.42						0.42						
RTTV _{Wall} at each facade		8.81 W/m ²						7.22 W/m ²						12.13 W/m ²						6.56 W/m ²						
Overall RTTV _{Wall}		8.46 W/m ²																								

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		63.5 m²							
Total Skylight Area		0 m²							
Heat Conduction	Roof	2.89 W/m²							
	Skylight	0 W/m²							
Skylight	Glass Type	☐ Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
Solar Radiation through Glazing		0 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m²							



RTTV Summary Sheet

Notes:

ER = External Reflectance

SC = Shading Coefficient

VLT = Visible Light Transmittance

Window and skylight data should represent the major proportion of its use in the development.

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Appendix A

Address: <u>JUNCTION OF SHOULSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG</u>		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	<u>3 (House 17)</u>	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest				
Average Absorptivity	0.42	0.3	0.42	0.3				
Average Window to Wall Ratio	0.35	0.1	0.54	0.09				
Shading Coefficient of Glazing	0.41	0.41	0.41	0.41				
Average Shading Coefficient of Facade	0.38	0.41	0.35	0.41				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		Northeast					Southeast					Southwest					Northwest				
Wall Orientation Factor		0.924					1.051					1.092					0.965				
Total External Wall Area (Residential Units)		52.07 m ²		Window to Wall Ratio = 0.35			117.66 m ²		Window to Wall Ratio = 0.1			81.23 m ²		Window to Wall Ratio = 0.54			84.93 m ²		Window to Wall Ratio = 0.09		
Total Window Factor		18.05 m ²					11.54 m ²					44.11 m ²					8.33 m ²				
Heat Conduction	Opaque Wall	3.41 W/m ²					5.35 W/m ²					2.82 W/m ²					4.95 W/m ²				
	Window	0.31 W/m ²					0.1 W/m ²					0.57 W/m ²					0.09 W/m ²				
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %
		☒ Tinted	Area= 8.05 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 11.54 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 44.11 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 8.33 m ²	SC= 0.41	VLT= 61 %	ER= 15 %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
	External Shading	Overhang	☒ Yes ☐ No				Overhang	☐ Yes ☒ No				Overhang	☒ Yes ☐ No				Overhang	☐ Yes ☒ No			
		Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No				Sidefin	☐ Yes ☒ No			
Solar Radiation through Glazing		5.09 W/m ²					1.77 W/m ²					8.74 W/m ²					1.53 W/m ²				
Average Absorptivity		0.42					0.42					0.42					0.42				
RTTV _{Wall} at each facade		8.81 W/m ²					7.22 W/m ²					12.13 W/m ²					6.56 W/m ²				
Overall RTTV _{Wall}		8.46 W/m ²																			

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		63.5 m ²								
Total Skylight Area		0 m ²								
Heat Conduction	Roof	2.89 W/m ²								
	Skylight	0 W/m ²								
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%	
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%	
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%	
	Double Glazing	☐ Yes ☒ No								
	External Shading	☐ Yes ☒ No								
	Solar Radiation through Glazing		0 W/m ²							
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.89 W/m ²								



RTTV Summary Sheet

Notes:

ER = External Reflectance

SC = Shading Coefficient

VLT = Visible Light Transmittance

Window and skylight data should represent the major proportion of its use in the development.

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Appendix A

Address: <u>JUNCTION OF SHOUSON HILL ROAD WEST AND WONG CHUK HANG PATH, HONG KONG</u>		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	<u>3 (House 18)</u>	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	Northeast	Southeast	Southwest	Northwest				
Average Absorptivity	<u>0.42</u>	<u>0.3</u>	<u>0.42</u>	<u>0.3</u>				
Average Window to Wall Ratio	<u>0.36</u>	<u>0.14</u>	<u>0.46</u>	<u>0.09</u>				
Shading Coefficient of Glazing	<u>0.41</u>	<u>0.41</u>	<u>0.41</u>	<u>0.41</u>				
Average Shading Coefficient of Facade	<u>0.39</u>	<u>0.41</u>	<u>0.36</u>	<u>0.41</u>				
Visible Light Transmittance	<u>61</u> %	<u>61</u> %	<u>61</u> %	<u>61</u> %	%	%	%	%
External Reflectance	<u>15</u> %	<u>15</u> %	<u>15</u> %	<u>15</u> %	%	%	%	%

Table 2

RTTV _{Wall}																						
Facade Orientation Facing		Northeast					Southeast					Southwest					Northwest					
Wall Orientation Factor		0.924					1.051					1.092					0.965					
Total External Wall Area (Residential Units)		63.66 m ²		Window to Wall Ratio = 0.36			149.72 m ²		Window to Wall Ratio = 0.14			99.2 m ²		Window to Wall Ratio = 0.46			114.09 m ²		Window to Wall Ratio = 0.09			
Total Window Factor		22.64 m ²					20.69 m ²					45.44 m ²					10.69 m ²					
Heat Conduction	Opaque Wall	3.36 W/m ²					5.12 W/m ²					3.34 W/m ²					4.94 W/m ²					
	Window	0.32 W/m ²					0.14 W/m ²					0.48 W/m ²					0.09 W/m ²					
Window	Glass Type	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	☐ Reflective	Area= m ²	SC=	VLT= %	ER= %	
		☒ Tinted	Area= 22.64 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 20.69 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 45.44 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	☒ Tinted	Area= 10.69 m ²	SC= 0.41	VLT= 61 %	ER= 15 %	
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	
	Double Glazing	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					
	External Shading	Overhang	☒ Yes ☐ No					☐ Yes ☒ No					☒ Yes ☐ No					☐ Yes ☒ No				
		Sidefin	☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No					☐ Yes ☒ No				
Solar Radiation through Glazing		5.33 W/m ²					2.49 W/m ²					7.46 W/m ²					1.55 W/m ²					
Average Absorptivity		0.42					0.42					0.42					0.42					
RTTV _{Wall} at each facade		9.01 W/m ²					7.74 W/m ²					11.28 W/m ²					6.58 W/m ²					
Overall RTTV _{Wall}		8.44 W/m ²																				

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		80.02 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	2.89 W/m ²							
	Skylight	0 W/m ²							
Skylight	Glass Type	☐ Reflective	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Tinted	Area=	m ²	SC=	VLT=	%	ER=	%
		☐ Clear	Area=	m ²	SC=	VLT=	%	ER=	%
	Double Glazing	☐ Yes ☒ No							
	External Shading	☐ Yes ☒ No							
Solar Radiation through Glazing		0 W/m ²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.89 W/m ²							