



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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House A1		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}							
Facade Orientation Facing	NW	NE	SE	SW			
Average Absorptivity	0.5	0.5	0.5	0.5			
Average Window to Wall Ratio	0.25	0.00	0.00	0.00			
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58			
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58			
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%

Table 2

RTTV _{Wall}																						
Facade Orientation Facing		NW					NE					SE					SW					
Wall Orientation Factor		0.965					0.924					1.051					1.092					
Total External Wall Area (Residential Units)		11.20	m ²	Window to Wall Ratio = 0.25			0.00	m ²	Window to Wall Ratio = 0.00			3.20	m ²	Window to Wall Ratio = 0.00			7.68	m ²	Window to Wall Ratio = 0.00			
Total Window Factor		2.77	m ²				0.00	m ²				0.00	m ²				0.00	m ²				
Heat Conduction	Opaque Wall	3.27 W/m ²					0.00 W/m ²					4.73 W/m ²					4.91 W/m ²					
	Window	0.29 W/m ²					0.00 W/m ²					0.00 W/m ²					0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %					
		☒ Clear	Area= 2.77 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ 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		5.78 W/m ²					0.00 W/m ²					0.00 W/m ²					0.00 W/m ²					
Average Absorptivity		0.5					0.5					0.5					0.5					
RTTV _{Wall} at each facade		9.34 W/m ²					0.00 W/m ²					4.73 W/m ²					4.91 W/m ²					
Overall RTTV _{Wall}		7.13 W/m ²																				

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		16.24 m²								
Total Skylight Area		0.00 m²								
Heat Conduction	Roof	2.73 W/m²								
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.73 W/m²								



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

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Appendix A

Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House A2		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.25	0.40	0.00	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		NW				NE				SE				SW							
Wall Orientation Factor		0.965				0.924				1.051				1.092							
Total External Wall Area (Residential Units)		11.20	m ²	Window to Wall Ratio = 0.25		24.77	m ²	Window to Wall Ratio = 0.40		2.40	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00					
Total Window Factor		2.77	m ²			10.00	m ²			0.00	m ²			0.00	m ²						
Heat Conduction	Opaque Wall	3.27 W/m ²				2.48 W/m ²				4.73 W/m ²				0.00 W/m ²							
	Window	0.29 W/m ²				0.45 W/m ²				0.00 W/m ²				0.00 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= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %
		☒ Clear	Area= 2.77 m ²	SC= 0.58	VLT= 62 %	ER= 11 %	☒ Clear	Area= 10.00 m ²	SC= 0.58	VLT= 62 %	ER= 11 %	☐ 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			
		Sidewall	☐ Yes ☒ No				Sidewall	☐ Yes ☒ No				Sidewall	☐ Yes ☐ No				Sidewall	☐ Yes ☐ No			
Solar Radiation through Glazing		5.78 W/m ²				9.03 W/m ²				0.00 W/m ²				0.00 W/m ²							
Average Absorptivity		0.5				0.5				0.5				0.5							
RTTV _{Wall} at each facade		9.34 W/m ²				11.96 W/m ²				4.73 W/m ²				0.00 W/m ²							
Overall RTTV _{Wall}		10.75 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		16.24 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 W/m²							



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Appendix A

Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House A3		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.48	0.00	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		NW					NE					SE					SW				
Wall Orientation Factor		0.965					0.924					1.051					1.092				
Total External Wall Area (Residential Units)		1.72	m ²	Window to Wall Ratio = 0.00			19.72	m ²	Window to Wall Ratio = 0.48			7.48	m ²	Window to Wall Ratio = 0.00			0.00	m ²	Window to Wall Ratio = 0.00		
Total Window Factor		0.00	m ²				9.49	m ²				0.00	m ²				0.00	m ²			
Heat Conduction	Opaque Wall	4.34 W/m ²					2.16 W/m ²					4.73 W/m ²					0.00 W/m ²				
	Window	0.00 W/m ²					0.54 W/m ²					0.00 W/m ²					0.00 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= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☒ Clear	9.49 m ²	0.58	VLT= 62 %	ER= 11 %	☐ 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		0.00 W/m ²					10.77 W/m ²					0.00 W/m ²					0.00 W/m ²				
Average Absorptivity		0.5					0.5					0.5					0.5				
RTTV _{Wall} at each facade		4.34 W/m ²					13.47 W/m ²					4.73 W/m ²					0.00 W/m ²				
Overall RTTV _{Wall}		10.66 W/m ²																			

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		31.32 m²								
Total Skylight Area		0.00 m²								
Heat Conduction	Roof	2.73 W/m²								
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.73 W/m²								



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Appendix A

Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House B1		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.18	0.00	0.61	0.26				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		NW				NE				SE				SW							
Wall Orientation Factor		0.965				0.924				1.051				1.092							
Total External Wall Area (Residential Units)		8.94	m ²	Window to Wall Ratio = 0.18		0.00	m ²	Window to Wall Ratio = 0.00		16.47	m ²	Window to Wall Ratio = 0.61		4.95	m ²	Window to Wall Ratio = 0.26					
Total Window Factor		1.59	m ²			0.00	m ²			10.03	m ²			1.29	m ²						
Heat Conduction	Opaque Wall	3.57 W/m ²				0.00 W/m ²				1.85 W/m ²				3.63 W/m ²							
	Window	0.21 W/m ²				0.00 W/m ²				0.78 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %				
		☒ Clear	Area= 1.59 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	Area= 10.03 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☒ Clear	Area= 1.29 m ²	SC= 0.58	VLT= 62 % ER= 11 %				
	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		4.16 W/m ²				0.00 W/m ²				15.50 W/m ²				6.90 W/m ²							
Average Absorptivity		0.5				0.5				0.5				0.5							
RTTV _{Wall} at each facade		7.93 W/m ²				0.00 W/m ²				18.13 W/m ²				10.88 W/m ²							
Overall RTTV _{Wall}		13.94 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		24.21 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 W/m²							



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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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House B2		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.31	0.00	0.00	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		NW				NE				SE				SW							
Wall Orientation Factor		0.965				0.924				1.051				1.092							
Total External Wall Area (Residential Units)		6.42	m ²	Window to Wall Ratio = 0.31		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00					
Total Window Factor		1.99	m ²			0.00	m ²			0.00	m ²			0.00	m ²						
Heat Conduction	Opaque Wall	2.99 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²							
	Window	0.36 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %				
		☒ Clear	Area= 1.99 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ 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		7.26 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²						
Average Absorptivity		0.5				0.5				0.5				0.5							
RTTV _{Wall} at each facade		10.61 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²							
Overall RTTV _{Wall}		10.61 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		13.23 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 W/m²							



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

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Appendix A

Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House B3		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.15	0.22	0.72	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

RTTV _{Wall}																					
Facade Orientation Facing		NW					NE					SE					SW				
Wall Orientation Factor		0.965					0.924					1.051					1.092				
Total External Wall Area (Residential Units)		9.00	m ²	Window to Wall Ratio = 0.15			5.00	m ²	Window to Wall Ratio = 0.22			13.00	m ²	Window to Wall Ratio = 0.72			0.00	m ²	Window to Wall Ratio = 0.00		
Total Window Factor		1.39	m ²				1.10	m ²				9.34	m ²				0.00	m ²			
Heat Conduction	Opaque Wall	3.67 W/m ²					3.24 W/m ²					1.33 W/m ²					0.00 W/m ²				
	Window	0.18 W/m ²					0.25 W/m ²					0.92 W/m ²					0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %				
		☒ Clear	Area= 1.39 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☒ Clear	Area= 1.10 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☒ Clear	Area= 9.34 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ 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		3.62 W/m ²					4.91 W/m ²					18.28 W/m ²					0.00 W/m ²				
Average Absorptivity		0.5					0.5					0.5					0.5				
RTTV _{Wall} at each facade		7.47 W/m ²					8.40 W/m ²					20.53 W/m ²					0.00 W/m ²				
Overall RTTV _{Wall}		13.93 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		28.05 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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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Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House C1		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.73	0.26	0.00				
Shading Coefficient of Glazing	0.58	0.57	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.57	0.58	0.58				
Visible Light Transmittance	62 %	60 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		NW				NE				SE				SW					
Wall Orientation Factor		0.965				0.924				1.051				1.092					
Total External Wall Area (Residential Units)		0.00	m ²	Window to Wall Ratio = 0.00		13.64	m ²	Window to Wall Ratio = 0.73		15.50	m ²	Window to Wall Ratio = 0.26		0.00	m ²	Window to Wall Ratio = 0.00			
Total Window Factor		0.00	m ²			9.94	m ²			4.01	m ²			0.00	m ²				
Heat Conduction	Opaque Wall	0.00 W/m ²				1.13 W/m ²				3.51 W/m ²				0.00 W/m ²					
	Window	0.00 W/m ²				0.78 W/m ²				0.33 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %		
		☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	9.91 m ²	0.57	VLT= 60 % ER= 11 %	☒ Clear	4.01 m ²	0.58	VLT= 62 % ER= 11 %	☐ 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		0.00 W/m ²				16.02 W/m ²				6.58 W/m ²				0.00 W/m ²				
Average Absorptivity		0.5				0.5				0.5				0.5					
RTTV _{Wall} at each facade		0.00 W/m ²				17.93 W/m ²				10.42 W/m ²				0.00 W/m ²					
Overall RTTV _{Wall}		13.93 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		15.08 m²					
Total Skylight Area		0.00 m²					
Heat Conduction	Roof	2.73 W/m²					
	Skylight	0.00 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		0.00 W/m²				
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.73 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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Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House C2		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.00	0.00	0.39				
Shading Coefficient of Glazing	0.58	0.57	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.57	0.58	0.58				
Visible Light Transmittance	62 %	60 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

RTTV _{Wall}																			
Facade Orientation Facing		NW				NE				SE				SW					
Wall Orientation Factor		0.965				0.924				1.051				1.092					
Total External Wall Area (Residential Units)		0.00	m²	Window to Wall Ratio = 0.00		0.00	m²	Window to Wall Ratio = 0.00		0.00	m²	Window to Wall Ratio = 0.00		5.73	m²	Window to Wall Ratio = 0.39			
Total Window Factor		0.00	m²			0.00	m²			0.00	m²			2.23	m²				
Heat Conduction	Opaque Wall	0.00 W/m²				0.00 W/m²				0.00 W/m²				3.00 W/m²					
	Window	0.00 W/m²				0.00 W/m²				0.00 W/m²				0.52 W/m²					
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %		
		☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %		
		☐ Clear	Area= m²	SC=	VLT= % ER= %	☐ Clear	Area= m²	SC=	VLT= % ER= %	☐ Clear	Area= m²	SC=	VLT= % ER= %	☒ Clear	Area= 1.90 m²	SC= 0.58	VLT= 62 % ER= 11 %		
	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		0.00 W/m²				0.00 W/m²				0.00 W/m²				10.28 W/m²					
Average Absorptivity		0.5				0.5				0.5				0.5					
RTTV _{Wall} at each facade		0.00 W/m²				0.00 W/m²				0.00 W/m²				13.80 W/m²					
Overall RTTV _{Wall}		13.80 W/m²																	

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		7.02 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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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Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House C3		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	NE	SE	SW				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.26	0.73	0.00	0.00				
Shading Coefficient of Glazing	0.58	0.57	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.57	0.58	0.58				
Visible Light Transmittance	62 %	60 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		NW				NE				SE				SW					
Wall Orientation Factor		0.965				0.924				1.051				1.092					
Total External Wall Area (Residential Units)		15.50	m ²	Window to Wall Ratio = 0.26		13.64	m ²	Window to Wall Ratio = 0.73		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00			
Total Window Factor		4.01	m ²			9.94	m ²			0.00	m ²			0.00	m ²				
Heat Conduction	Opaque Wall	3.22 W/m ²				1.13 W/m ²				0.00 W/m ²				0.00 W/m ²					
	Window	0.30 W/m ²				0.78 W/m ²				0.00 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %		
		☒ Clear	Area= 4.01 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☒ Clear	Area= 9.94 m ²	SC= 0.57	VLT= 60 % ER= 11 %	☐ 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		6.04 W/m ²				16.02 W/m ²				0.00 W/m ²				0.00 W/m ²				
Average Absorptivity		0.5				0.5				0.5				0.5					
RTTV _{Wall} at each facade		9.56 W/m ²				17.93 W/m ²				0.00 W/m ²				0.00 W/m ²					
Overall RTTV _{Wall}		13.48 W/m ²																	

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		15.08 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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.

Address: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House D1		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.44	0.00	0.00	0.25				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		N				E				S				W							
Wall Orientation Factor		0.79				1.072				0.975				1.131							
Total External Wall Area (Residential Units)		3.57	m ²	Window to Wall Ratio = 0.44		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00		7.60	m ²	Window to Wall Ratio = 0.25					
Total Window Factor		1.55	m ²			0.00	m ²			0.00	m ²			1.89	m ²						
Heat Conduction	Opaque Wall	2.00 W/m ²				0.00 W/m ²				0.00 W/m ²				3.82 W/m ²							
	Window	0.42 W/m ²				0.00 W/m ²				0.00 W/m ²				0.34 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %				
		☒ Clear	Area= 1.55 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	Area= 1.89 m ²	SC= 0.58	VLT= 62 % ER= 11 %				
	Double Glazing	☐ Yes ☒ No				☐ Yes ☐ No				☐ Yes ☐ No				☐ Yes ☒ No							
	External Shading	Overhang	☐ Yes ☒ No				Overhang	☐ Yes ☐ No				Overhang	☐ Yes ☐ No				Overhang	☐ Yes ☒ No			
		Siddefin	☐ Yes ☒ No				Siddefin	☐ Yes ☐ No				Siddefin	☐ Yes ☐ No				Siddefin	☐ Yes ☒ No			
Solar Radiation through Glazing		8.34 W/m ²				0.00 W/m ²				0.00 W/m ²				6.80 W/m ²							
Average Absorptivity		0.5				0.5				0.5				0.5							
RTTV _{Wall} at each facade		10.76 W/m ²				0.00 W/m ²				0.00 W/m ²				10.97 W/m ²							
Overall RTTV _{Wall}		10.90 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		8.59 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House D2		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}							
Facade Orientation Facing	N	E	S	W			
Average Absorptivity	0.5	0.5	0.5	0.5			
Average Window to Wall Ratio	0.36	0.00	0.00	0.00			
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58			
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58			
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%

RTTV _{Wall}																	
Facade Orientation Facing		N				E				S				W			
Wall Orientation Factor		0.79				1.072				0.975				1.131			
Total External Wall Area (Residential Units)		4.26	m ²	Window to Wall Ratio = 0.36		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00	
Total Window Factor		1.55	m ²			0.00	m ²			0.00	m ²			0.00	m ²		
Heat Conduction	Opaque Wall	2.26 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²			
	Window	0.35 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %
		☒ Clear	Area= 1.55 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ 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	Overhang		☐ Yes ☐ No	
		Sidefin		☐ Yes ☒ No	Sidefin		☐ Yes ☐ No	Sidefin		☐ Yes ☐ No	Sidefin		☐ Yes ☐ No	Sidefin		☐ Yes ☐ No	
Solar Radiation through Glazing		6.97 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²			
Average Absorptivity		0.5				0.5				0.5				0.5			
RTTV _{Wall} at each facade		9.58 W/m ²				0.00 W/m ²				0.00 W/m ²				0.00 W/m ²			
Overall RTTV _{Wall}		9.58 W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		7.49 m²					
Total Skylight Area		0.00 m²					
Heat Conduction	Roof	2.73 W/m²					
	Skylight	0.00 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		0.00 W/m²					
Average Absorptivity (roof)		0.7					
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House D3		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.68	0.00	0.45				
Shading Coefficient of Glazing	0.58	0.58	0.58	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.58	0.58				
Visible Light Transmittance	62 %	62 %	62 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		N				E				S				W					
Wall Orientation Factor		0.79				1.072				0.975				1.131					
Total External Wall Area (Residential Units)		3.10	m ²	Window to Wall Ratio = 0.00		16.40	m ²	Window to Wall Ratio = 0.68		19.25	m ²	Window to Wall Ratio = 0.00		4.15	m ²	Window to Wall Ratio = 0.45			
Total Window Factor		0.00	m ²			11.23	m ²			0.00	m ²			1.89	m ²				
Heat Conduction	Opaque Wall	3.55 W/m ²				1.52 W/m ²				4.39 W/m ²				2.78 W/m ²					
	Window	0.00 W/m ²				0.89 W/m ²				0.00 W/m ²				0.62 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %		
		☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	Area= 11.23 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	Area= 1.89 m ²	SC= 0.58	VLT= 62 % ER= 11 %		
	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		0.00 W/m ²				17.78 W/m ²				0.00 W/m ²				12.44 W/m ²				
Average Absorptivity		0.5				0.5				0.5				0.5					
RTTV _{Wall} at each facade		3.55 W/m ²				20.19 W/m ²				4.39 W/m ²				15.84 W/m ²					
Overall RTTV _{Wall}		11.48 W/m ²																	

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		21.10 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House E1		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.31	0.00	0.00	0.19				
Shading Coefficient of Glazing	0.58	0.58	0.57	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.57	0.58				
Visible Light Transmittance	62 %	62 %	60 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		N				E				S				W							
Wall Orientation Factor		0.790				1.072				0.975				1.131							
Total External Wall Area (Residential Units)		7.26	m²	Window to Wall Ratio = 0.31		0.00	m²	Window to Wall Ratio = 0.00		0.00	m²	Window to Wall Ratio = 0.00		8.58	m²	Window to Wall Ratio = 0.19					
Total Window Factor		2.23	m²			0.00	m²			0.00	m²			1.62	m²						
Heat Conduction	Opaque Wall	2.46 W/m²				0.00 W/m²				0.00 W/m²				4.13 W/m²							
	Window	0.29 W/m²				0.00 W/m²				0.00 W/m²				0.26 W/m²							
Window	Glass Type	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %	☐ Reflective	Area= m²	SC=	VLT= % ER= %				
		☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %	☐ Tinted	Area= m²	SC=	VLT= % ER= %				
		☒ Clear	Area= 2.23 m²	SC= 0.58	VLT= 62 % ER= 11 %	☐ Clear	Area= m²	SC=	VLT= % ER= %	☐ Clear	Area= m²	SC=	VLT= % ER= %	☒ Clear	Area= 1.62 m²	SC= 0.58	VLT= 62 % ER= 11 %				
	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		5.87 W/m²				0.00 W/m²				0.00 W/m²				5.17 W/m²						
	Average Absorptivity		0.5				0.5				0.5				0.5						
RTTV _{Wall} at each facade		8.62 W/m²				0.00 W/m²				0.00 W/m²				9.56 W/m²							
Overall RTTV _{Wall}		9.13 W/m²																			

Table 3

RTTV _{Roof}										
Roof Orientation Factor		2.16								
Total Roof Area (Residential Units)		9.30 m²								
Total Skylight Area		0.00 m²								
Heat Conduction	Roof	2.73 W/m²								
	Skylight	0.00 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		0.00 W/m²							
Average Absorptivity (roof)		0.7								
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House E2		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.31	0.19	0.00	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.57	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.57	0.58				
Visible Light Transmittance	62 %	62 %	60 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																				
Facade Orientation Facing		N				E				S				W						
Wall Orientation Factor		0.790				1.072				0.975				1.131						
Total External Wall Area (Residential Units)		7.26	m ²	Window to Wall Ratio = 0.31		8.58	m ²	Window to Wall Ratio = 0.19		0.00	m ²	Window to Wall Ratio = 0.00		0.00	m ²	Window to Wall Ratio = 0.00				
Total Window Factor		2.23	m ²			1.62	m ²			0.00	m ²			0.00	m ²					
Heat Conduction	Opaque Wall	2.46 W/m ²				3.91 W/m ²				0.00 W/m ²				0.00 W/m ²						
	Window	0.29 W/m ²				0.25 W/m ²				0.00 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %			
		☒ Clear	Area= 2.23 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☒ Clear	Area= 1.62 m ²	SC= 0.58	VLT= 62 % ER= 11 %	☐ 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		5.87 W/m ²				4.90 W/m ²				0.00 W/m ²				0.00 W/m ²						
Average Absorptivity		0.5				0.5				0.5				0.5						
RTTV _{Wall} at each facade		8.62 W/m ²				9.06 W/m ²				0.00 W/m ²				0.00 W/m ²						
Overall RTTV _{Wall}		8.86 W/m ²																		

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		9.30 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House E3		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.00	0.48	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.57	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.57	0.58				
Visible Light Transmittance	62 %	62 %	60 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		N					E					S					W				
Wall Orientation Factor		0.790					1.072					0.975					1.131				
Total External Wall Area (Residential Units)		0.00	m ²	Window to Wall Ratio = 0.00			0.00	m ²	Window to Wall Ratio = 0.00			8.31	m ²	Window to Wall Ratio = 0.48			0.00	m ²	Window to Wall Ratio = 0.00		
Total Window Factor		0.00	m ²				0.00	m ²				4.00	m ²				0.00	m ²			
Heat Conduction	Opaque Wall	0.00 W/m ²					0.00 W/m ²					2.27 W/m ²					0.00 W/m ²				
	Window	0.00 W/m ²					0.00 W/m ²					0.54 W/m ²					0.00 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= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %	☐ Tinted	Area= m ²	SC=	VLT= %	ER= %
		☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☐ Clear	Area= m ²	SC=	VLT= %	ER= %	☒ Clear	Area= 4.00 m ²	SC= 0.57	VLT= 60 %	ER= 11 %	☐ 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						
		Siddefin	☐ Yes ☐ No			Siddefin	☐ Yes ☐ No			Siddefin	☐ Yes ☒ No			Siddefin	☐ Yes ☐ No						
Solar Radiation through Glazing		0.00 W/m ²					0.00 W/m ²					11.17 W/m ²					0.00 W/m ²				
Average Absorptivity		0.5					0.5					0.5					0.5				
RTTV _{Wall} at each facade		0.00 W/m ²					0.00 W/m ²					13.99 W/m ²					0.00 W/m ²				
Overall RTTV _{Wall}		13.99 W/m ²																			

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		9.30 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 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: Proposed Garden House Development at R.P. of Lot No. 385 in D.D. 352 Area 1A/1B Discovery Bay Lantau Island - House E4		BD Ref. No. BD 2/9019/08
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify:	
No. of Storeys (Residential Units)	1	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	N	E	S	W				
Average Absorptivity	0.5	0.5	0.5	0.5				
Average Window to Wall Ratio	0.00	0.00	0.48	0.00				
Shading Coefficient of Glazing	0.58	0.58	0.57	0.58				
Average Shading Coefficient of Facade	0.58	0.58	0.57	0.58				
Visible Light Transmittance	62 %	62 %	60 %	62 %	%	%	%	%
External Reflectance	11 %	11 %	11 %	11 %	%	%	%	%

Table 2

RTTV _{Wall}																		
Facade Orientation Facing		N				E				S				W				
Wall Orientation Factor		0.790				1.072				0.975				1.131				
Total External Wall Area (Residential Units)		0.00 m ²	Window to Wall Ratio = 0.00			0.00 m ²	Window to Wall Ratio = 0.00			8.31 m ²	Window to Wall Ratio = 0.48			0.00 m ²	Window to Wall Ratio = 0.00			
Total Window Factor		0.00 m ²				0.00 m ²				4.00 m ²				0.00 m ²				
Heat Conduction	Opaque Wall	0.00 W/m ²				0.00 W/m ²				2.27 W/m ²				0.00 W/m ²				
	Window	0.00 W/m ²				0.00 W/m ²				0.54 W/m ²				0.00 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= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	☐ Tinted	Area= m ²	SC=	VLT= % ER= %	
		☐ Clear	Area= m ²	SC=	VLT= % ER= %	☐ Clear	Area= m ²	SC=	VLT= % ER= %	☒ Clear	Area= 4.00 m ²	SC= 0.57	VLT= 60 % ER= 11 %	☐ 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		0.00 W/m ²				0.00 W/m ²				11.17 W/m ²				0.00 W/m ²			
	Average Absorptivity		0.5				0.5				0.5				0.5			
	RTTV _{Wall} at each facade		0.00 W/m ²				0.00 W/m ²				13.99 W/m ²				0.00 W/m ²			
	Overall RTTV _{Wall}		13.99 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		9.30 m²							
Total Skylight Area		0.00 m²							
Heat Conduction	Roof	2.73 W/m²							
	Skylight	0.00 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		0.00 W/m²						
Average Absorptivity (roof)		0.7							
Overall RTTV _{Roof}		2.73 W/m²							