

Appendix D – APP 156 Form

RTTV Summary Sheet

Address: Villa 1 Annex Building, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	SE	NE	NW	SW				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.560	0.023	0	0.065				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		SE				NE				NW				SW			
Wall Orientation Factor		1.051				0.924				0.965				1.092			
Total External Wall Area (Residential Units)		128.8	m ²	Window to Wall Ratio		122.7	m ²	Window to Wall Ratio		43.2	m ²	Window to Wall Ratio		131.7	m ²	Window to Wall Ratio	
		72.1	m ²	= 0.560		2.8	m ²	= 0.023		0	m ²	= 0		8.6	m ²	= 0.065	
Heat Conduction	Opaque Wall	1.41 W/m ²				2.76 W/m ²				2.95 W/m ²				3.12 W/m ²			
	Window	0.63 W/m ²				0.02 W/m ²				0 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= 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= 72.1 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 2.8 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 0 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 8.6 m ²	SC= 0.38	VLT= 61 % ER= 15 %
	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 Gazing		9.33 W/m ²				0.67 W/m ²				0 W/m ²				1.13 W/m ²			
Average Absorptivity		0.3				0.3				0.3				0.3			
RTTV _{Wall} at each facade		11.37 W/m ²				3.45 W/m ²				2.95 W/m ²				4.32 W/m ²			
Overall RTTV _{Wall}		6.06 W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		106 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 1 Main Building, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	SE	NE	NW	SW				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.341	0.157	0.621	0.122				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		SE				NE				NW				SW					
Wall Orientation Factor		1.051				0.924				0.965				1.092					
Total External Wall Area (Residential Units)		211.2	m ²	Window to Wall Ratio		207.7	m ²	Window to Wall Ratio		113.9	m ²	Window to Wall Ratio		240.9	m ²	Window to Wall Ratio			
Total Window Area		72	m ²	= 0.341		26.7	m ²	= 0.129		70.7	m ²	= 0.621		42.2	m ²	= 0.175			
Heat Conduction	Opaque Wall	2.11 W/m ²				2.46 W/m ²				1.12 W/m ²				2.75 W/m ²					
	Window	0.38 W/m ²				0.13 W/m ²				0.64 W/m ²				0.2 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= 72 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 26.7 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 70.7m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 42.2m ²	SC= 0.38	VLT= 61 % ER= 15 %		
	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 Gazing		5.68 W/m ²				1.88 W/m ²				9.5 W/m ²				3.03 W/m ²					
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		8.18 W/m ²				4.47 W/m ²				11.26 W/m ²				5.99 W/m ²					
Overall RTTV _{Wall}		6.95 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		184.8 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

(9/2014)

RTTV Summary Sheet

Address: Villa 2 Annex Building, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NW	SW	SE	NE				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.11	0.28	0.086	0.091				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		NW				SW				SE				NE					
Wall Orientation Factor		0.965				1.092				1.051				0.924					
Total External Wall Area (Residential Units)		128.1 m ²	Window to Wall Ratio			160.6 m ²	Window to Wall Ratio			92.5 m ²	Window to Wall Ratio			110.5 m ²	Window to Wall Ratio				
Total Window Area		14.1 m ²	= 0.11			45 m ²	= 0.28			8 m ²	= 0.086			10.1 m ²	= 0.091				
Heat Conduction	Opaque Wall	2.62 W/m ²				2.40 W/m ²				2.93 W/m ²				2.56 W/m ²					
	Window	0.11 W/m ²				0.33 W/m ²				0.10 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= 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= 14.1 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 45 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 8 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 10.1 m ²	SC= 0.38	VLT= 61 % ER= 15 %		
	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 Gazing		1.69 W/m ²				4.85 W/m ²				1.44 W/m ²				1.34 W/m ²					
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		4.42 W/m ²				7.58 W/m ²				4.47 W/m ²				3.99 W/m ²					
Overall RTTV _{Wall}		5.36 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		96.6 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 2 Main Building, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island (sheet 1 of 2)		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	W	E						
Average Absorptivity	0.3	0.3						
Average Window to Wall Ratio	0.219	0.085						
Shading Coefficient of Glazing	0.38	0.38						
Average Shading Coefficient of Facade	0.38	0.38						
Visible Light Transmittance	61 %	61 %	%	%	%	%	%	%
External Reflectance	15 %	15 %	%	%	%	%	%	%

Table 2

RTTV _{Wall}																		
Facade Orientation Facing		W				E												
Wall Orientation Factor		1.131				1.072												
Total External Wall Area (Residential Units)		162.6 m ²	Window to Wall Ratio			105 m ²	Window to Wall Ratio			m ²	Window to Wall Ratio			m ²	Window to Wall Ratio			
Total Window Area		35.6 m ²	= 0.219			8.9 m ²	= 0.085			m ²	=			m ²	=			
Heat Conduction	Opaque Wall	2.7 W/m ²				2.99 W/m ²				W/m ²				W/m ²				
	Window	0.27 W/m ²				0.1 W/m ²				W/m ²				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= 35.6 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 8.9 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☐ 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 Gazing		3.93 W/m ²				1.44 W/m ²				W/m ²				W/m ²			
	Average Absorptivity		0.3				0.3											
	RTTV _{Wall} at each facade		6.89 W/m ²				4.53 W/m ²				W/m ²				W/m ²			
	Overall RTTV _{Wall}		W/m ²															

Table 3

RTTV _{Roof}							
Roof Orientation Factor							
Total Roof Area (Residential Units)		m ²					
Total Skylight Area		m ²					
Heat Conduction	Roof	W/m ²					
	Skylight	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		W/m ²					
Average Absorptivity (roof)							
Overall RTTV _{Roof}		W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 2 Main Building, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island (sheet 2 of 2)		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	SW	S	SE	NW				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.069	0.358	0.014	0.44				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		SW				S				SE				NW					
Wall Orientation Factor		1.092				0.975				1.051				0.965					
Total External Wall Area (Residential Units)		105.3 m ²		Window to Wall Ratio		154.1 m ²		Window to Wall Ratio		126.1 m ²		Window to Wall Ratio		159.1 m ²		Window to Wall Ratio			
Total Window Area		7.3 m ²		= 0.069		55.1 m ²		= 0.358		1.8 m ²		= 0.014		70 m ²		= 0.44			
Heat Conduction	Opaque Wall	3.1 W/m ²				1.91 W/m ²				3.16 W/m ²				1.65 W/m ²					
	Window	0.08 W/m ²				0.37 W/m ²				0.02 W/m ²				0.46 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= 7.3 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 55.1 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 1.8 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 70 m ²	SC= 0.38	VLT= 61 % ER= 15 %		
	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 Gazing		1.2 W/m ²				5.53 W/m ²				0.24 W/m ²				6.74 W/m ²					
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		4.38 W/m ²				7.82 W/m ²				3.42 W/m ²				8.84 W/m ²					
Overall RTTV _{Wall}		9.37 W/m ²																	

Table 3

TABLE 5

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		175.2 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 3, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island	BD Ref. No. 2 /9101/ 15
Building Type: Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :
No. of Storeys (Residential Units)	3

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	NE	SW	SE	NW				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.217	0.342	0.097	0.073				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		NE				SW				SE				NW					
Wall Orientation Factor		0.924				1.092				1.051				0.965					
Total External Wall Area (Residential Units)		215.8 m ²	Window to Wall Ratio			327.7 m ²	Window to Wall Ratio			144.4 m ²	Window to Wall Ratio			186.2 m ²	Window to Wall Ratio				
Total Window Area		46.9 m ²	= 0.217			112 m ²	= 0.342			14 m ²	= 0.097			13.58 m ²	= 0.073				
Heat Conduction	Opaque Wall	2.21 W/m ²				2.19 W/m ²				2.9 W/m ²				2.73 W/m ²					
	Window	0.21 W/m ²				0.4 W/m ²				0.11 W/m ²				0.07 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= 46.9 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 112 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 14 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 13.58 m ²	SC= 0.38	VLT= 61 % ER= 15 %		
	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 Gazing		3.19 W/m ²				5.92 W/m ²				1.62 W/m ²				1.12 W/m ²					
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		5.61 W/m ²				8.51 W/m ²				4.62 W/m ²				3.92 W/m ²					
Overall RTTV _{Wall}		6.17 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		227.9 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 5, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island	BD Ref. No. 2 /9101/ 15
Building Type: Residential	
RTTV calculated by: ☒ 1. Registered Professional Engineers	
☐ 2. Architect	
☐ 3. Others, please specify :	
No. of Storeys (Residential Units): 3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	SW	NW	SE	S				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.598	0.056	0.07	0.377				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

Table 2																										
RTTV _{Wall}																										
Facade Orientation Facing		SW						NW						SE						S						
Wall Orientation Factor		1.092						0.965						1.051						0.975						
Total External Wall Area (Residential Units)		115.2 m ²		Window to Wall Ratio				223.4 m ²		Window to Wall Ratio				130.8 m ²		Window to Wall Ratio				169.5 m ²		Window to Wall Ratio				
Total Window Area		68.9 m ²		= 0.598				12.5 m ²		= 0.056				9.2 m ²		= 0.07				63.9 m ²		= 0.377				
Heat Conduction	Opaque Wall	1.34 W/m ²						2.78 W/m ²						2.98 W/m ²						1.85 W/m ²						
	Window	0.69 W/m ²						0.06 W/m ²						0.08 W/m ²						0.39 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= 68.9 m ²	SC= 0.38	VLT= 61 %	ER= 15 %	☒ Clear	Area= 12.5 m ²	SC= 0.38	VLT= 61 %	ER= 15 %	☒ Clear	Area= 9.2 m ²	SC= 0.38	VLT= 61 %	ER= 15 %	☒ Clear	Area= 63.9 m ²	SC= 0.38	VLT= 61 %	ER= 15 %					
	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 Gazing		10.36 W/m ²						0.86 W/m ²						1.17 W/m ²						5.83 W/m ²						
Average Absorptivity		0.3						0.3						0.3						0.3						
RTTV _{Wall} at each facade		12.4 W/m ²						3.69 W/m ²						4.23 W/m ²						8.07 W/m ²						
Overall RTTV _{Wall}		6.54 W/m ²																								

Table 3

Table 5

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		223.7 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	3.23 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}		3.23 W/m ²							

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

Notes :

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

RTTV Summary Sheet

Address: Villa 6, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island	BD Ref. No. 2 /9101/ 15
Building Type: Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :
No. of Storeys (Residential Units)	3

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	S	SW	NW	NE				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.309	0.083	0.334	0.067				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		S				SW				NW				NE					
Wall Orientation Factor		0.975				1.092				0.965				0.924					
Total External Wall Area (Residential Units)		113.1	m ²	Window to Wall Ratio		122.4	m ²	Window to Wall Ratio		160.2	m ²	Window to Wall Ratio		151.9	m ²	Window to Wall Ratio			
Total Window Area		35	m ²	= 0.309		10.2	m ²	= 0.083		53.5	m ²	= 0.334		10.2	m ²	= 0.067			
Heat Conduction	Opaque Wall	2.05 W/m ²				3.06 W/m ²				1.96 W/m ²				2.63 W/m ²					
	Window	0.32 W/m ²				0.1 W/m ²				0.34 W/m ²				0.07 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	35 m ²	0.38	VLT= 61 % ER= 15 %	☒ Clear	10.2 m ²	0.38	VLT= 61 % ER= 15 %	☒ Clear	53.5 m ²	0.38	VLT= 61 % ER= 15 %	☒ Clear	10.2 m ²	0.38	VLT= 61 % ER= 15 %		
	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 Gazing		4.79 W/m ²				1.44 W/m ²				5.11 W/m ²				0.98 W/m ²				
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		7.16 W/m ²				4.6 W/m ²				7.42 W/m ²				3.68 W/m ²					
Overall RTTV _{Wall}		5.7 W/m ²																	

Table 3

RTTV _{Roof}							
Roof Orientation Factor		2.16					
Total Roof Area (Residential Units)		126.1 m ²					
Total Skylight Area		0 m ²					
Heat Conduction	Roof	3.23 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}		3.23 W/m ²					

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

Notes :

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

RTTV Summary Sheet

Address: Villa 7, Lot No. 758 in D.D. 332 Cheung Sha, Lantau Island		BD Ref. No. 2 /9101/ 15
Building Type:	Residential	
RTTV calculated by	☒ 1. Registered Professional Engineers ☐ 2. Architect ☐ 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	S	SW	NW	NE				
Average Absorptivity	0.3	0.3	0.3	0.3				
Average Window to Wall Ratio	0.180	0.134	0.323	0.218				
Shading Coefficient of Glazing	0.38	0.38	0.38	0.38				
Average Shading Coefficient of Facade	0.38	0.38	0.38	0.38				
Visible Light Transmittance	61 %	61 %	61 %	61 %	%	%	%	%
External Reflectance	15 %	15 %	15 %	15 %	%	%	%	%

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		S				SW				NW				NE					
Wall Orientation Factor		0.975				1.092				0.965				0.924					
Total External Wall Area (Residential Units)		151.2	m ²	Window to Wall Ratio		138.7	m ²	Window to Wall Ratio		141.8	m ²	Window to Wall Ratio		160.8	m ²	Window to Wall Ratio			
Total Window Area		27.2	m ²	=	0.180	18.6	m ²	=	0.134	45.8	m ²	=	0.323	35	m ²	=	0.218		
Heat Conduction	Opaque Wall	2.44 W/m ²				2.89 W/m ²				1.99 W/m ²				2.21 W/m ²					
	Window	0.19 W/m ²				0.16 W/m ²				0.33 W/m ²				0.21 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= 27.2m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 18.6 m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 45.8m ²	SC= 0.38	VLT= 61 % ER= 15 %	☒ Clear	Area= 35 m ²	SC= 0.38	VLT= 61 % ER= 15 %		
	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 Gazing		2.78 W/m ²				2.32 W/m ²				4.94 W/m ²				3.19 W/m ²					
Average Absorptivity		0.3				0.3				0.3				0.3					
RTTV _{Wall} at each facade		5.41 W/m ²				5.36 W/m ²				7.27 W/m ²				5.61 W/m ²					
Overall RTTV _{Wall}		5.9 W/m ²																	

Table 3

Table 5

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		83.7 m ²							
Total Skylight Area		0 m ²							
Heat Conduction	Roof	3.23 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}		3.23 W/m ²							

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

Notes :

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