

Appendix E – RTTV Summary Sheet (PNAP APP-156)

RTTV Summary Sheet

Address: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (2-9, 15-22 Villa Avenue) (With sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	N	E	S	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.45	0.03	0.57	0.00
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.45	0.46	0.37	1.00
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

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)		67.57 m ²	Window to Wall Ratio		153.53 m ²	Window to Wall Ratio		67.18 m ²	Window to Wall Ratio		102.50 m ²	Window to Wall Ratio				
Total Window Area		30.18 m ²	= 0.45		4.55 m ²	= 0.03		38.44 m ²	= 0.57		0.00 m ²	= 0.00				
Heat Conduction	Opaque Wall	1.87 W/m ²			4.45 W/m ²			1.78 W/m ²			4.84 W/m ²					
	Window	0.39 W/m ²			0.04 W/m ²			0.62 W/m ²			0.62 W/m ²					
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidewall	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		6.65 W/m ²			0.61 W/m ²			8.66 W/m ²			8.66 W/m ²					
Average Absorptivity		0.37			0.37			0.37			0.37					
RTTV _{Wall} at each facade		8.91 W/m ²			5.10 W/m ²			11.07 W/m ²			14.12 W/m ²					
Overall RTTV _{Wall}		9.15 W/m ²														

Table 3

RTTV _{Roof}													
Roof Orientation Factor		2.16											
Total Roof Area (Residential Units)		84.78 m ²											
Total Skylight Area		0.00 m ²											
Heat Conduction	Roof	1.60 W/m ²											
	Skylight	0.00 W/m ²											
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
Double Glazing		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
External Shading		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Solar Radiation through Glazing		0.00 W/m ²											
Average Absorptivity (roof)		0.37											
Overall RTTV _{Roof}		1.60 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (23-30 Villa Avenue) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	S	E	N	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.45	0.03	0.55	0.00
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.41	0.46	0.45	1.00
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

Table 2

RTTV_{Wall}

Facade Orientation Facing	S		E		N		W														
Wall Orientation Factor	0.975		1.072		0.79		1.131														
Total External Wall Area (Residential Units)	67.57 m ²	Window to Wall Ratio	153.53 m ²	Window to Wall Ratio	67.18 m ²	Window to Wall Ratio	102.50 m ²	Window to Wall Ratio													
Total Window Area	30.47 m ²	= 0.45	4.30 m ²	= 0.03	36.63 m ²	= 0.55	0.00 m ²	= 0.00													
Heat Conduction	Opaque Wall	2.29 W/m ²	4.46 W/m ²	1.54 W/m ²	4.84 W/m ²																
	Window	0.49 W/m ²	0.03 W/m ²	0.48 W/m ²	0.48 W/m ²																
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	7.52 W/m ²	0.58 W/m ²	8.09 W/m ²	8.09 W/m ²																	
Average Absorptivity	0.37	0.37	0.37	0.37																	
RTTV _{Wall} at each facade	10.30 W/m ²	5.07 W/m ²	10.10 W/m ²	13.41 W/m ²																	
Overall RTTV _{Wall}	9.03 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	84.80 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (2-11 Lucca Avenue) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	SE	SW	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.57	0.02	0.55	0.33
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.40	0.42	0.42	0.45
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

Table 2 RTTV _{Wall}																
Facade Orientation Facing		NE			SE			SW			NW					
Wall Orientation Factor		0.924			1.051			1.092			0.965					
Total External Wall Area (Residential Units)		88.66 m ²	Window to Wall Ratio		182.18 m ²	Window to Wall Ratio		88.68 m ²	Window to Wall Ratio		153.84 m ²	Window to Wall Ratio				
Total Window Area		50.63 m ²	= 0.57		3.21 m ²	= 0.02		48.88 m ²	= 0.55		50.39 m ²	= 0.33				
Heat Conduction	Opaque Wall	1.70 W/m ²		4.42 W/m ²		2.10 W/m ²		4.48 W/m ²								
	Window	0.59 W/m ²		0.02 W/m ²		0.67 W/m ²		0.60 W/m ²								
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Solar Radiation through Glazing		8.92 W/m ²			0.33 W/m ²			10.64 W/m ²			10.01 W/m ²					
Average Absorptivity		0.37			0.37			0.37			0.37					
RTTV _{Wall} at each facade		11.20 W/m ²			4.76 W/m ²			13.41 W/m ²			15.09 W/m ²					
Overall RTTV _{Wall}		10.46 W/m ²														

Table 3 RTTV _{Roof}													
Roof Orientation Factor		2.16											
Total Roof Area (Residential Units)		154.71 m ²											
Total Skylight Area		2.10 m ²											
Heat Conduction	Roof	1.58 W/m ²											
	Skylight	0.02 W/m ²											
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	<input checked="" type="checkbox"/> Clear	Area=	2.10	m ²	SC=	0.46	VLT=	53	%	ER=	16	%	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
External Shading	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Solar Radiation through Glazing		0.55 W/m ²											
Average Absorptivity (roof)		0.37											
Overall RTTV _{Roof}		2.07 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (1 Lucca Avenue) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	NW	SW	SE
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.49	0.16	0.38	0.07
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.40	0.40	0.41	0.42
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

Table 2 RTTV _{Wall}																				
Facade Orientation Facing		NE			NW			SW			SE									
Wall Orientation Factor		0.924			0.965			1.092			1.051									
Total External Wall Area (Residential Units)		191.63 m ²	Window to Wall Ratio		173.43 m ²	Window to Wall Ratio		176.85 m ²	Window to Wall Ratio		189.11 m ²	Window to Wall Ratio								
Total Window Area		93.77 m ²	= 0.49		28.25 m ²	= 0.16		66.95 m ²	= 0.38		12.42 m ²	= 0.07								
Heat Conduction	Opaque Wall	2.02 W/m ²			3.46 W/m ²			2.90 W/m ²			4.20 W/m ²									
	Window	0.50 W/m ²			0.18 W/m ²			0.46 W/m ²			0.08 W/m ²									
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=				
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=				
	<input checked="" type="checkbox"/> Clear	93.77	0.46	53	16	<input checked="" type="checkbox"/> Clear	28.25	0.46	53	16	<input checked="" type="checkbox"/> Clear	66.95	0.46	53	16	<input checked="" type="checkbox"/> Clear	12.42	0.46	53	16
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
Solar Radiation through Glazing		7.55 W/m ²			2.65 W/m ²			7.01 W/m ²			1.20 W/m ²									
Average Absorptivity		0.37			0.37			0.37			0.37									
RTTV _{Wall} at each facade		10.08 W/m ²			6.28 W/m ²			10.37 W/m ²			5.47 W/m ²									
Overall RTTV _{Wall}		8.06 W/m ²																		

Table 3 RTTV _{Roof}														
Roof Orientation Factor		2.16												
Total Roof Area (Residential Units)		221.89 m ²												
Total Skylight Area		6.54 m ²												
Heat Conduction	Roof	1.55 W/m ²												
	Skylight	0.04 W/m ²												
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
	<input checked="" type="checkbox"/> Clear	Area=	6.54	m ²	SC=	0.46	VLT=	53	%	ER=	16	%		
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
External Shading	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
Solar Radiation through Glazing		1.20 W/m ²												
Average Absorptivity (roof)		0.37												
Overall RTTV _{Roof}		1.98 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (1 Villa Avenue Guest House Block) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	2	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	SE	SW	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.04	0.21	0.20	0.49
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.46	0.46	0.35	0.41
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

Table 2 RTTV _{Wall}															
Facade Orientation Facing		NE			SE			SW			NW				
Wall Orientation Factor		0.924			1.051			1.092			0.965				
Total External Wall Area (Residential Units)		44.47 m ²		Window to Wall Ratio	32.72 m ²		Window to Wall Ratio	62.37 m ²		Window to Wall Ratio	40.43 m ²		Window to Wall Ratio		
Total Window Area		1.73 m ²		= 0.04	6.76 m ²		= 0.21	12.55 m ²		= 0.20	19.64 m ²		= 0.49		
Heat Conduction	Opaque Wall	3.80		W/m ²	3.57		W/m ²	3.73		W/m ²	2.12		W/m ²		
	Window	0.04		W/m ²	0.24		W/m ²	0.24		W/m ²	0.52		W/m ²		
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=		
					ER(%)=				ER(%)=				ER(%)=		
	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted		
	<input checked="" type="checkbox"/> Clear	1.73	0.46	ER(%)= 16	<input checked="" type="checkbox"/> Clear	6.76	0.46	ER(%)= 16	<input checked="" type="checkbox"/> Clear	12.55	0.46	ER(%)= 16	<input checked="" type="checkbox"/> Clear	19.64	0.46
Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
External Shading	Overhang	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
	Sidefin	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sidefin	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Solar Radiation through Glazing		0.69		W/m ²	4.17		W/m ²	3.20		W/m ²	7.96		W/m ²		
Average Absorptivity		0.37			0.37			0.37			0.37				
RTTV _{Wall} at each facade		4.53		W/m ²	7.98		W/m ²	7.17		W/m ²	10.61		W/m ²		
Overall RTTV _{Wall}		7.44 W/m ²													

Table 3 RTTV _{Roof}													
Roof Orientation Factor		2.16											
Total Roof Area (Residential Units)		43.57 m ²											
Total Skylight Area		0.00 m ²											
Heat Conduction	Roof	1.60 W/m ²											
	Skylight	0.00 W/m ²											
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	Double Glazing	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No										
External Shading	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No											
Solar Radiation through Glazing		0.00 W/m ²											
Average Absorptivity (roof)		0.37											
Overall RTTV _{Roof}		1.47 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (1 Villa Avenue Main Block) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	N	E	S	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.44	0.27	0.68	0.22
Shading Coefficient of Glazing	0.46	0.46	0.00	0.46
Average Shading Coefficient of Facade	0.45	0.37	0.35	0.41
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

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)		163.89 m ²			164.51 m ²			142.77 m ²			160.25 m ²											
Total Window Area		71.65 m ²			44.54 m ²			96.47 m ²			35.15 m ²											
Heat Conduction		1.90 W/m ²			3.34 W/m ²			1.35 W/m ²			3.47 W/m ²											
Window		0.38 W/m ²			0.32 W/m ²			0.73 W/m ²			0.28 W/m ²											
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=					
			ER(%)=				ER(%)=				ER(%)=				ER(%)=							
	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=		
		ER(%)=				ER(%)=				ER(%)=				ER(%)=				ER(%)=				
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=		
	ER(%)=	53		16	ER(%)=	53		16	ER(%)=	53		16	ER(%)=	53		16	ER(%)=	53		16		
	Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
		Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Solar Radiation through Glazing		6.50 W/m ²			4.44 W/m ²			9.73 W/m ²			4.26 W/m ²										
Average Absorptivity		0.37			0.37			0.37			0.37											
RTTV _{Wall} at each facade		8.78 W/m ²			8.11 W/m ²			11.82 W/m ²			8.00 W/m ²											
Overall RTTV _{Wall}		9.09 W/m ²																				

Table 3 RTTV _{Roof}														
Roof Orientation Factor		2.16												
Total Roof Area (Residential Units)		156.41 m ²												
Total Skylight Area		0.00 m ²												
Heat Conduction		1.60 W/m ²												
Skylight		0.00 W/m ²												
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
	Double Glazing	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes
External Shading	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Solar Radiation through Glazing		0.00 W/m ²												
Average Absorptivity (roof)		0.37												
Overall RTTV _{Roof}		0.88 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (10-12 Villa Avenue) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	3	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	N	E	S	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.39	0.02	0.61	0.02
Shading Coefficient of Glazing	0.46	0.46	0.46	0.46
Average Shading Coefficient of Facade	0.45	0.43	0.37	0.43
Visible Light Transmittance (%)	53	53	53	53
External Reflectance (%)	16	16	16	16

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)	86.24 m ²	Window to Wall Ratio	134.51 m ²	Window to Wall Ratio	86.24 m ²	Window to Wall Ratio	143.67 m ²	Window to Wall Ratio													
Total Window Area	33.27 m ²	= 0.39	2.58 m ²	= 0.02	52.55 m ²	= 0.61	2.58 m ²	= 0.02													
Heat Conduction	Opaque Wall	2.08 W/m ²	4.50 W/m ²	1.63 W/m ²	4.75 W/m ²																
	Window	0.34 W/m ²	0.02 W/m ²	0.66 W/m ²	0.02 W/m ²																
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	33.27	0.46	53	16	<input checked="" type="checkbox"/> Clear	2.58	0.46	53	16	<input checked="" type="checkbox"/> Clear	52.55	0.46	53	16	<input checked="" type="checkbox"/> Clear	2.58	0.46	53	16	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	5.76 W/m ²		0.37 W/m ²		9.12 W/m ²		0.36 W/m ²														
Average Absorptivity	0.37		0.37		0.37		0.37														
RTTV _{Wall} at each facade	8.18 W/m ²		4.89 W/m ²		11.41 W/m ²		5.14 W/m ²														
Overall RTTV _{Wall}	6.84 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	91.84 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 1) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1				
Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	NW	SW	SE
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.48	0.20	0.49	0.15
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.48	0.89	0.40	0.83
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2																	
RTTV _{Wall}																	
Facade Orientation Facing		NE			NW			SW			SE						
Wall Orientation Factor		0.924			0.965			1.092			1.051						
Total External Wall Area (Residential Units)		431.77 m ²			307.33 m ²			444.70 m ²			302.64 m ²						
		Window to Wall Ratio			Window to Wall Ratio			Window to Wall Ratio			Window to Wall Ratio						
Total Window Area		205.43 m ²			62.48 m ²			216.24 m ²			45.55 m ²						
		= 0.48			= 0.20			= 0.49			= 0.15						
Heat Conduction	Opaque Wall	2.07 W/m ²			3.29 W/m ²			2.40 W/m ²			3.82 W/m ²						
	Window	0.68 W/m ²			0.61 W/m ²			0.75 W/m ²			0.47 W/m ²						
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=
			ER(%)=				ER(%)=				ER(%)=				ER(%)=		
	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	
	<input checked="" type="checkbox"/> Clear	205.43	0.46	53	<input checked="" type="checkbox"/> Clear	62.48	1.03	90	<input checked="" type="checkbox"/> Clear	216.24	0.46	53	<input checked="" type="checkbox"/> Clear	45.55	1.03	90	
Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Solar Radiation through Glazing		8.85 W/m ²			7.27 W/m ²			8.91 W/m ²			5.48 W/m ²						
Average Absorptivity		0.37			0.37			0.37			0.37						
RTTV _{Wall} at each facade		11.60 W/m ²			11.17 W/m ²			12.06 W/m ²			9.77 W/m ²						
Overall RTTV _{Wall}		11.28 W/m ²															

Table 3														
RTTV _{Roof}														
Roof Orientation Factor		2.16												
Total Roof Area (Residential Units)		479.88 m ²												
Total Skylight Area		0.00 m ²												
Heat Conduction	Roof	1.60 W/m ²												
	Skylight	0.00 W/m ²												
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
	Double Glazing	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No								
External Shading	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No									
Solar Radiation through Glazing		0.00 W/m ²												
Average Absorptivity (roof)		0.37												
Overall RTTV _{Roof}		1.60 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 2) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	NE	SE	SW	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.47	0.17	0.49	0.15
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.48	0.86	0.40	0.85
Visible Light Transmittance (%)	53	90	56	90
External Reflectance (%)	16	8	16	8

Table 2

RTTV_{Wall}

Facade Orientation Facing	NE		SE		SW		NW														
Wall Orientation Factor	0.924		1.051		1.092		0.965														
Total External Wall Area (Residential Units)	425.80 m ²	Window to Wall Ratio	311.17 m ²	Window to Wall Ratio	442.70 m ²	Window to Wall Ratio	313.84 m ²	Window to Wall Ratio													
Total Window Area	200.10 m ²	= 0.47	52.27 m ²	= 0.17	218.09 m ²	= 0.49	45.55 m ²	= 0.15													
Heat Conduction	Opaque Wall	2.10	W/m ²	3.74	W/m ²	2.37	W/m ²	3.53	W/m ²												
	Window	0.68	W/m ²	0.54	W/m ²	0.76	W/m ²	0.41	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	200.10	0.46	53	16	<input checked="" type="checkbox"/> Clear	52.27	1.03	90	8	<input checked="" type="checkbox"/> Clear	218.09	0.46	56	16	<input checked="" type="checkbox"/> Clear	45.55	1.03	90	8	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	8.76		W/m ²		6.31		W/m ²		9.03		W/m ²		4.94		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	11.53		W/m ²		10.59		W/m ²		12.15		W/m ²		8.89		W/m ²						
Overall RTTV _{Wall}	10.96 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	479.88 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 3) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	4	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	NW	SW	SE
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.48	0.20	0.49	0.16
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.48	0.86	0.40	0.80
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2 RTTV _{Wall}																
Facade Orientation Facing		NE			NW			SW			SE					
Wall Orientation Factor		0.924			0.965			1.092			1.051					
Total External Wall Area (Residential Units)		342.29 m ²			250.82 m ²			349.84 m ²			252.60 m ²					
Window to Wall Ratio		= 0.48			= 0.20			= 0.49			= 0.16					
Heat Conduction	Opaque Wall	2.06 W/m ²			3.30 W/m ²			2.37 W/m ²			3.80 W/m ²					
	Window	0.68 W/m ²			0.58 W/m ²			0.75 W/m ²			0.47 W/m ²					
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=			
		ER(%)=				ER(%)=				ER(%)=						
	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted			
	ER(%)=				ER(%)=				ER(%)=				ER(%)=			
<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear				
ER(%)=	163.99	0.46	53	ER(%)=	50.15	1.03	90	ER(%)=	172.42	0.46	53	ER(%)=	39.26	1.03	90	
Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		8.90 W/m ²			6.94 W/m ²			8.93 W/m ²			5.44 W/m ²					
Average Absorptivity		0.37			0.37			0.37			0.37					
RTTV _{Wall} at each facade		11.64 W/m ²			10.83 W/m ²			12.05 W/m ²			9.71 W/m ²					
Overall RTTV _{Wall}		11.18 W/m ²														

Table 3 RTTV _{Roof}													
Roof Orientation Factor		2.16											
Total Roof Area (Residential Units)		479.88 m ²											
Total Skylight Area		0.00 m ²											
Heat Conduction	Roof	1.60 W/m ²											
	Skylight	0.00 W/m ²											
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	Double Glazing	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
External Shading	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Solar Radiation through Glazing		0.00 W/m ²											
Average Absorptivity (roof)		0.37											
Overall RTTV _{Roof}		1.60 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 6) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	4	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	S	W	N	E
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.44	0.14	0.48	0.48
Shading Coefficient of Glazing	0.46	1.03	0.46	0.46
Average Shading Coefficient of Facade	0.39	0.84	0.49	0.35
Visible Light Transmittance (%)	53	90	53	53
External Reflectance (%)	16	8	16	16

Table 2

RTTV_{Wall}

Facade Orientation Facing	S		W		N		E														
Wall Orientation Factor	0.975		1.131		0.79		1.072														
Total External Wall Area (Residential Units)	323.62 m ²	Window to Wall Ratio	243.39 m ²	Window to Wall Ratio	303.18 m ²	Window to Wall Ratio	340.33 m ²	Window to Wall Ratio													
Total Window Area	142.83 m ²	= 0.44	35.07 m ²	= 0.14	144.23 m ²	= 0.48	162.66 m ²	= 0.48													
Heat Conduction	Opaque Wall	2.33	W/m ²	4.14	W/m ²	1.77	W/m ²	2.39	W/m ²												
	Window	0.59	W/m ²	0.49	W/m ²	0.50	W/m ²	0.57	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	142.83	0.46	53	16	<input checked="" type="checkbox"/> Clear	35.07	1.03	90	8	<input checked="" type="checkbox"/> Clear	144.23	0.46	53	16	<input checked="" type="checkbox"/> Clear	162.66	0.46	53	16	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	6.97		W/m ²		5.77		W/m ²		7.72		W/m ²		7.50		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	9.90		W/m ²		10.40		W/m ²		9.99		W/m ²		10.47		W/m ²						
Overall RTTV _{Wall}	10.18 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	509.22 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.38 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 7) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	N	E	S	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.44	0.13	0.47	0.43
Shading Coefficient of Glazing	0.46	1.03	0.46	0.46
Average Shading Coefficient of Facade	0.50	0.87	0.40	0.36
Visible Light Transmittance (%)	53	90	53	53
External Reflectance (%)	16	8	16	16

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)	409.05 m ²	Window to Wall Ratio	326.73 m ²	Window to Wall Ratio	395.54 m ²	Window to Wall Ratio	452.80 m ²	Window to Wall Ratio													
Total Window Area	179.46 m ²	= 0.44	41.07 m ²	= 0.13	185.01 m ²	= 0.47	193.78 m ²	= 0.43													
Heat Conduction	Opaque Wall	1.90	W/m ²	4.01	W/m ²	2.22	W/m ²	2.77	W/m ²												
	Window	0.47	W/m ²	0.42	W/m ²	0.61	W/m ²	0.54	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	179.46	0.46	53	16	<input checked="" type="checkbox"/> Clear	41.07	1.03	90	8	<input checked="" type="checkbox"/> Clear	185.01	0.46	53	16	<input checked="" type="checkbox"/> Clear	193.78	0.46	53	16	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Solar Radiation through Glazing	7.25		W/m ²		4.92		W/m ²		7.61		W/m ²		7.22		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	9.62		W/m ²		9.35		W/m ²		10.44		W/m ²		10.53		W/m ²						
Overall RTTV _{Wall}	10.03 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	520.82 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.32 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 8) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	SW	NW	NE	SE
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.50	0.19	0.50	0.15
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.45	0.89	0.51	0.83
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2

RTTV_{Wall}

Facade Orientation Facing	SW	NW	NE	SE	
Wall Orientation Factor	1.092	0.965	0.924	1.051	
Total External Wall Area (Residential Units)	389.44 m ² Window to Wall Ratio	304.39 m ² Window to Wall Ratio	444.99 m ² Window to Wall Ratio	305.35 m ² Window to Wall Ratio	
Total Window Area	194.23 m ² = 0.50	58.05 m ² = 0.19	221.36 m ² = 0.50	45.55 m ² = 0.15	
Heat Conduction	Opaque Wall	2.34 W/m ²	3.34 W/m ²	1.99 W/m ²	3.83 W/m ²
	Window	0.85 W/m ²	0.56 W/m ²	0.80 W/m ²	0.46 W/m ²
Window	Glass Type	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input checked="" type="checkbox"/> Clear
	Area (m ²)	194.23	58.05	221.36	45.55
	SC=	0.46	1.03	0.46	1.03
	VLT (%)	53	90	53	90
ER (%)	16	8	16	8	
Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Solar Radiation through Glazing	10.26 W/m ²	6.86 W/m ²	9.73 W/m ²	5.45 W/m ²	
Average Absorptivity	0.37	0.37	0.37	0.37	
RTTV _{Wall} at each facade	13.45 W/m ²	10.76 W/m ²	12.52 W/m ²	9.74 W/m ²	
Overall RTTV _{Wall}	11.81 W/m²				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16	
Total Roof Area (Residential Units)	500.43 m ²	
Total Skylight Area	0.00 m ²	
Heat Conduction	Roof	1.60 W/m ²
	Skylight	0.00 W/m ²
Skylight	Glass Type	<input type="checkbox"/> Reflective <input type="checkbox"/> Tinted <input type="checkbox"/> Clear
	Area=	- m ²
	SC=	-
	VLT=	- %
ER=	- %	
Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No	
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Solar Radiation through Glazing	0.00 W/m ²	
Average Absorptivity (roof)	0.37	
Overall RTTV _{Roof}	1.42 W/m²	

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 9) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	SW	SE	NE	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.47	0.18	0.48	0.14
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.45	0.80	0.44	0.84
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2 RTTV _{Wall}																
Facade Orientation Facing		SW			SE			NE			NW					
Wall Orientation Factor		1.092			1.051			0.924			0.965					
Total External Wall Area (Residential Units)		433.65 m ²	Window to Wall Ratio		311.17 m ²	Window to Wall Ratio		450.56 m ²	Window to Wall Ratio		313.84 m ²	Window to Wall Ratio				
Total Window Area		204.85 m ²	= 0.47		55.28 m ²	= 0.18		216.69 m ²	= 0.48		45.50 m ²	= 0.14				
Heat Conduction	Opaque Wall	2.47		W/m ²		3.70		W/m ²		2.05		W/m ²				
	Window	0.81		W/m ²		0.52		W/m ²		0.63		W/m ²				
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=			
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=			
	<input checked="" type="checkbox"/> Clear	204.85	0.46	53	<input checked="" type="checkbox"/> Clear	55.28	1.03	90	<input checked="" type="checkbox"/> Clear	216.69	0.46	53	<input checked="" type="checkbox"/> Clear	45.50	1.03	90
	Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No				
Solar Radiation through Glazing		9.72 W/m ²			6.26 W/m ²			8.25 W/m ²			4.93 W/m ²					
Average Absorptivity		0.37			0.37			0.37			0.37					
RTTV _{Wall} at each facade		12.99 W/m ²			10.48 W/m ²			10.93 W/m ²			8.88 W/m ²					
Overall RTTV _{Wall}		11.00 W/m ²														

Table 3 RTTV _{Roof}													
Roof Orientation Factor		2.16											
Total Roof Area (Residential Units)		479.88 m ²											
Total Skylight Area		0.00 m ²											
Heat Conduction	Roof	1.60 W/m ²											
	Skylight	0.00 W/m ²											
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	Double Glazing	<input type="checkbox"/> Yes	<input type="checkbox"/> No										
External Shading	<input type="checkbox"/> Yes	<input type="checkbox"/> No											
Solar Radiation through Glazing		0.00 W/m ²											
Average Absorptivity (roof)		0.37											
Overall RTTV _{Roof}		1.60 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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 10) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	SE	SW	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.46	0.19	0.49	0.15
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.49	0.78	0.40	0.84
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

RTTV _{Wall}																				
Facade Orientation Facing		NE			SE			SW			NW									
Wall Orientation Factor		0.924			1.051			1.092			0.965									
Total External Wall Area (Residential Units)		445.78 m ²	Window to Wall Ratio		314.41 m ²	Window to Wall Ratio		448.71 m ²	Window to Wall Ratio		311.87 m ²	Window to Wall Ratio								
Total Window Area		204.85 m ²	= 0.46		58.83 m ²	= 0.19		219.11 m ²	= 0.49		45.48 m ²	= 0.15								
Heat Conduction	Opaque Wall	2.14 W/m ²			3.66 W/m ²			2.39 W/m ²			3.69 W/m ²									
	Window	0.67 W/m ²			0.53 W/m ²			0.75 W/m ²			0.42 W/m ²									
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=				
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=				
	<input checked="" type="checkbox"/> Clear	204.85	0.46	53	16	<input checked="" type="checkbox"/> Clear	58.83	1.03	90	8	<input checked="" type="checkbox"/> Clear	219.11	0.46	53	16	<input checked="" type="checkbox"/> Clear	45.48	1.03	90	8
	Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No								
External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No								
	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No								
Solar Radiation through Glazing		8.64 W/m ²			6.37 W/m ²			8.96 W/m ²			4.96 W/m ²									
Average Absorptivity		0.37			0.37			0.37			0.37									
RTTV _{Wall} at each facade		11.44 W/m ²			10.56 W/m ²			12.11 W/m ²			9.07 W/m ²									
Overall RTTV _{Wall}												10.97 W/m²								

RTTV _{Roof}													
Roof Orientation Factor												2.16	
Total Roof Area (Residential Units)												524.80 m ²	
Total Skylight Area												0.00 m ²	
Heat Conduction	Roof											1.60 W/m ²	
	Skylight											0.00 W/m ²	
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	Double Glazing	<input type="checkbox"/> Yes	<input type="checkbox"/> No										
External Shading	<input type="checkbox"/> Yes	<input type="checkbox"/> No											
Solar Radiation through Glazing												0.00 W/m ²	
Average Absorptivity (roof)												0.37	
Overall RTTV _{Roof}												1.60 W/m²	

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 11 & 12) (with sunshading)		BD Ref. No.	BD 2/9060/17
Building Type:	Residential		
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :		
No. of Storeys (Residential Units)	5		

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	NE	SE	SW	NW
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.54	0.22	0.53	0.20
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.52	0.80	0.39	1.03
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2

RTTV_{Wall}

Facade Orientation Facing	NE		SE		SW		NW														
Wall Orientation Factor	0.924		1.051		1.092		0.965														
Total External Wall Area (Residential Units)	570.06 m ²	Window to Wall Ratio	380.71 m ²	Window to Wall Ratio	723.58 m ²	Window to Wall Ratio	356.52 m ²	Window to Wall Ratio													
Total Window Area	306.98 m ²	= 0.54	83.58 m ²	= 0.22	383.83 m ²	= 0.53	70.12 m ²	= 0.20													
Heat Conduction	Opaque Wall	1.48	W/m ²	2.85	W/m ²	1.78	W/m ²	2.65	W/m ²												
	Window	0.82	W/m ²	0.64	W/m ²	0.79	W/m ²	0.65	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
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	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	10.74		W/m ²		7.67		W/m ²		9.44		W/m ²		7.72		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	13.04		W/m ²		11.16		W/m ²		12.01		W/m ²		11.02		W/m ²						
Overall RTTV _{Wall}	11.97 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	868.31 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 15) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	N	W	S	E
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.45	0.18	0.46	0.17
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.55	0.91	0.42	0.74
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2

RTTV_{Wall}

Facade Orientation Facing	N		W		S		E														
Wall Orientation Factor	0.79		1.131		0.975		1.072														
Total External Wall Area (Residential Units)	408.24 m ²	Window to Wall Ratio	305.59 m ²	Window to Wall Ratio	471.82 m ²	Window to Wall Ratio	326.27 m ²	Window to Wall Ratio													
Total Window Area	184.43 m ²	= 0.45	54.53 m ²	= 0.18	217.12 m ²	= 0.46	55.08 m ²	= 0.17													
Heat Conduction	Opaque Wall	1.85	W/m ²	3.98	W/m ²	2.25	W/m ²	3.81	W/m ²												
	Window	0.57	W/m ²	0.63	W/m ²	0.67	W/m ²	0.48	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	184.43	0.46	53	16	<input checked="" type="checkbox"/> Clear	54.53	1.03	90	8	<input checked="" type="checkbox"/> Clear	217.12	0.46	53	16	<input checked="" type="checkbox"/> Clear	55.08	1.03	90	8	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing	8.25		W/m ²		7.68		W/m ²		7.79		W/m ²		5.61		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	10.67		W/m ²		12.28		W/m ²		10.71		W/m ²		9.90		W/m ²						
Overall RTTV _{Wall}	10.84 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	500.73 m ²					
Total Skylight Area	0.00 m ²					
Heat Conduction	Roof	1.60 W/m ²				
	Skylight	0.00 W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No				
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No					
Solar Radiation through Glazing	0.00 W/m ²					
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60 W/m²					

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 16) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	N	W	S	E
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.47	0.18	0.48	0.14
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.55	0.81	0.38	0.83
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

Table 2

RTTV_{Wall}

Facade Orientation Facing	N		W		S		E														
Wall Orientation Factor	0.79		1.131		0.975		1.072														
Total External Wall Area (Residential Units)	433.65 m ²	Window to Wall Ratio	311.17 m ²	Window to Wall Ratio	450.56 m ²	Window to Wall Ratio	313.84 m ²	Window to Wall Ratio													
Total Window Area	204.85 m ²	= 0.47	55.28 m ²	= 0.18	216.69 m ²	= 0.48	45.50 m ²	= 0.14													
Heat Conduction	Opaque Wall	1.78	W/m ²	3.98	W/m ²	2.17	W/m ²	3.92	W/m ²												
	Window	0.58	W/m ²	0.56	W/m ²	0.66	W/m ²	0.46	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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Solar Radiation through Glazing	8.52		W/m ²		6.76		W/m ²		7.53		W/m ²		5.41		W/m ²						
Average Absorptivity	0.37				0.37				0.37				0.37								
RTTV _{Wall} at each facade	10.89		W/m ²		11.31		W/m ²		10.36		W/m ²		9.80		W/m ²						
Overall RTTV _{Wall}	10.59 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16																								
Total Roof Area (Residential Units)	479.88 m ²																								
Total Skylight Area	0.00 m ²																								
Heat Conduction	Roof	1.60 W/m ²																							
	Skylight	0.00 W/m ²																							
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Solar Radiation through Glazing	0.00 W/m ²																								
Average Absorptivity (roof)	0.37																								
Overall RTTV _{Roof}	1.60 W/m²																								

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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 17) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1

Deemed to Satisfy RTTV_{Wall}

Facade Orientation Facing	N	E	S	W
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.47	0.18	0.48	0.14
Shading Coefficient of Glazing	0.46	1.03	0.46	1.03
Average Shading Coefficient of Facade	0.55	0.81	0.38	0.83
Visible Light Transmittance (%)	53	90	53	90
External Reflectance (%)	16	8	16	8

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)	433.65 m ²	Window to Wall Ratio	311.17 m ²	Window to Wall Ratio	450.56 m ²	Window to Wall Ratio	313.84 m ²	Window to Wall Ratio													
Total Window Area	204.85 m ²	= 0.47	55.28 m ²	= 0.18	216.69 m ²	= 0.48	45.50 m ²	= 0.14													
Heat Conduction	Opaque Wall	1.78	W/m ²	3.77	W/m ²	2.17	W/m ²	4.14	W/m ²												
	Window	0.58	W/m ²	0.53	W/m ²	0.66	W/m ²	0.49	W/m ²												
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	ER (%)=
		<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	ER (%)=
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	ER (%)=	
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
	Sidefin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Solar Radiation through Glazing	8.52	W/m ²	6.41	W/m ²	7.53	W/m ²	5.71	W/m ²													
Average Absorptivity	0.37		0.37		0.37		0.37														
RTTV _{Wall} at each facade	10.89	W/m ²	10.72	W/m ²	10.36	W/m ²	10.34	W/m ²													
Overall RTTV _{Wall}	10.58 W/m²																				

Table 3

RTTV_{Roof}

Roof Orientation Factor	2.16					
Total Roof Area (Residential Units)	479.88	m ²				
Total Skylight Area	0.00	m ²				
Heat Conduction	Roof	1.60	W/m ²			
	Skylight	0.00	W/m ²			
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Tinted	Area= - m ²	SC= -	VLT= - %	ER= - %
		<input type="checkbox"/> Clear	Area= - m ²	SC= -	VLT= - %	ER= - %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
Solar Radiation through Glazing	0.00	W/m ²				
Average Absorptivity (roof)	0.37					
Overall RTTV _{Roof}	1.60	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: Residential Development at Lo Fai Road, Tai Po, New Territories NTL229 & 223 (Tower 18) (with sunshading)		BD Ref. No. BD 2/9060/17
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	5	

Table 1 Deemed to Satisfy RTTV _{Wall}				
Facade Orientation Facing	NE	NW	SW	SE
Average Absorptivity	0.37	0.37	0.37	0.37
Average Window to Wall Ratio	0.55	0.35	0.17	0.45
Shading Coefficient of Glazing	0.46	0.46	1.03	0.46
Average Shading Coefficient of Facade	0.40	0.46	0.93	0.31
Visible Light Transmittance (%)	53	53	90	53
External Reflectance (%)	16	16	8	16

Table 2 RTTV _{Wall}																					
Facade Orientation Facing		NE			NW			SW			SE										
Wall Orientation Factor		0.924			0.965			1.092			1.051										
Total External Wall Area (Residential Units)		601.63 m ²			173.33 m ²			301.63 m ²			203.30 m ²										
		Window to Wall Ratio			Window to Wall Ratio			Window to Wall Ratio			Window to Wall Ratio										
Total Window Area		330.93 m ²			60.77 m ²			51.80 m ²			90.90 m ²										
		= 0.55			= 0.35			= 0.17			= 0.45										
Heat Conduction	Opaque Wall	1.78 W/m ²			2.68 W/m ²			3.87 W/m ²			2.49 W/m ²										
	Window	0.57 W/m ²			0.38 W/m ²			0.60 W/m ²			0.52 W/m ²										
Window	Glass Type	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Reflective	Area (m ²)=	SC=	VLT (%)=				
					ER(%)=				ER(%)=					ER(%)=				ER(%)=			
	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	<input type="checkbox"/> Tinted	Area (m ²)=	SC=	VLT (%)=	
				ER(%)=				ER(%)=						ER(%)=				ER(%)=			
	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	<input checked="" type="checkbox"/> Clear	Area (m ²)=	SC=	VLT (%)=	
		330.93	0.46	53		60.77	0.46	53		51.80	1.03	90		90.90	0.46	53		16		16	
Double Glazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
External Shading	Overhang	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Sidefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Solar Radiation through Glazing		8.44 W/m ²			6.50 W/m ²			7.28 W/m ²			6.65 W/m ²										
Average Absorptivity		0.37			0.37			0.37			0.37										
RTTV _{Wall} at each facade		10.79 W/m ²			9.56 W/m ²			11.76 W/m ²			9.66 W/m ²										
Overall RTTV _{Wall}		10.67 W/m ²																			

Table 3 RTTV _{Roof}														
Roof Orientation Factor		2.16												
Total Roof Area (Residential Units)		464.98 m ²												
Total Skylight Area		0.00 m ²												
Heat Conduction	Roof	1.60 W/m ²												
	Skylight	0.00 W/m ²												
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Tinted	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
		<input type="checkbox"/> Clear	Area=	-	m ²	SC=	-	VLT=	-	%	ER=	-	%	
	Double Glazing	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes
External Shading	<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Solar Radiation through Glazing		0.00 W/m ²												
Average Absorptivity (roof)		0.37												
Overall RTTV _{Roof}		1.17 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)