



# **RTTV Summary Sheet**

Notes:

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

PNAP
APP-156
Appendix

Address: R	Address: Residential Re-development, No. 2 Headland Road, Repulse Bay, R.B.L. 676, Hong Kong										g BD R	BD Ref. No. BD 2/2014/16					
Building Type		Residential															
RTTV calcul			tered Professional Engineers														
	1	2. Architect															
	Ī	3. Others	Others, please specify:														
No. of Storey (Residential																	
Table 1	•																
							Deeme	d to Sat	isfy RTTV <sub>W</sub>	all							
Facade Orie	ntation Facir	ng															
Average Absorptivity																	
Average Window to Wall Ratio																	
Shading Coe	efficient of GI	azing															
Average Shading Coefficient of Facade			de														
Visible Light Transmittance				%	%		%		%		%		%	%		%	
External Reflectance				%	%		%		%		%		%	%		%	
Table 2																	
								RTTV	Wall								
Facade Orie	ntation	Nor	th			Northeast				Southe				South			
Facing			North					151						Print for specifical and			
Wall Orienta	Acceptable to the acceptable	0.79				0.924				1.051				0.975		A/:11- \A/-	-11
Total Externa (Residential		92.4	44 m² Window to Wall Ratio			253.09 m² Windo			w to Wall	164	164.72 m² Ra		ow to Wall	48.23 m² Windo		Vindow to Wa Ratio	111
Total Window Factor 16.10		0 m²	- 0 474		124.32 m²		W. September	.491	22.	22.79 m²		0.138	21.65 m² =		0.449		
Heat Conduction	Opaque Wall		1.99 W/m²			1.37			W/m²	210			W/m²	1.65			V/m²
	Window	ow		0.13 W/m²		0.44		W/m²	'/m² C		14	W/m²	0.42		2 v	V/m²	
Window	Glass Type	Reflective	Area= m²	SC=	VLT= % ER= %	Reflective	Area=	SC=	VLT= % ER= %	Reflective	Area= e m²	SC=	VLT= % ER= %	Reflective	Area= S	C= VLT= ER=	%
				SC=	VLT= %		Area=	SC=	VLT= %		Area=	SC=	VLT= %		Area= S	C= VLT=	%
		Tinted	m²		ER= %		m²		ER= %	1111100	m²		ER= %	1000000	m²	ER=	%
		Clear	Area= 16.10 m²		VLT= 50 % ER= 14 %	Clear	Area= 124.32 m <sup>2</sup>		VLT= 50% ER= 14 %		Area= 22.79 m²	sc= 0.32	VLT= 50 % ER= 14 %	Clear		C=   VLT= 5 ).32   ER= 1	
	Double Glazing		✓ Yes			☑ Yes			No	✓ Yes		. [	] No	☑ Yes		☐ No	
	External	Overhang		Yes	☑ No	Overhang		Yes	☐ No	Overhar	ng [	Yes	☑ No	Overhang		Yes 🔽 N	lo
	Shading	Sidefin		Yes	☑ No	Sidefin	V	Yes	☐ No	Sidefin		Yes	☑ No	Sidefin		Yes 🔽 N	lo
Solar Radiation through Glazing			1.84 W/m²			5.7	74	W/m²		1.9		W/m²	0.0		5 v	N/m²	
Average Absorptivity			0.35		0.35					0.	35		0.3		5		
RTTV <sub>Wall</sub> at each facade				3.96 W/m²						W/m² 4.			W/m²		_	N/m²	
Overall RTTV <sub>Wall</sub>			7.61 W/m²														
Table 3		1															
								RTTV	Roof								
Roof Orienta	ation Factor		2.16														
Total Roof A	568.40 m²																
Total Skylight Area				O m²													
Heat	Roof			2.82 W/m²													
Conduction	Skylight			O W/m²													
Skylight		Glass Type		eflective	Are	ea=	= m²			SC=			()	% ER=			%
		Double Glazing		Tinted Area			***			SC=			VLT=		% ER=		%
				Clear Area= m² SC= VLT=							%	ER=		%			
	Double (			Yes No													
		10000000 (00000000000000000000000000000									□ No						
		External Shading					-			Yes							
Solar Radiation through Glazing			0 W/m²														
Average Absorptivity (roof)			-	0.7													
Overall RTT							2.8	32 v	//m²								

# **Matters to Note**

Any person making a false declaration or misrepresenting a material fact shall be guilty of a criminal offence and subject to prosecution.

## A. Personal Data

#### **Purposes of Collection**

- 1. The personal data provided by means of this form will be used by the Buildings Department for the following purposes:
  - (a) activities relating to the processing of your submission in this form;
  - (b) activities relating to the above proposed works, and administration of the Buildings Ordinance and other legislations; and
  - (c) facilitating communication between the Buildings Department and yourself.
- 2. It is obligatory for you to provide the information as required in the form. If you fail to provide the required data, delay may be caused in processing of your submission or even result in rejection of the application.

### Classes of Transferees

The personal data you provided by means of this form may be disclosed to other government departments, bureaux, organisations or any persons for the purposes mentioned in paragraph 1 above.

### Access to Personal Data

4. You have the right of access and correction with respect to the personal data as provided under the Personal Data (Privacy) Ordinance. The Buildings Department has the right to charge a reasonable fee for the processing of any data access request. Request for personal data access and correction should be addressed to the Buildings Department.

## B. Completion of Form

- 1. Please ensure that all relevant parts of the form are duly completed. Please enclose all supporting documents.
- 2. If incomplete or erroneous information is provided in the form, the Buildings Department may not be able to process the submission.
- 3. Enquiries regarding this form should be addressed to the Buildings Department.

## C. Submission Methods

1. By Post / In Person - This form together with the relevant documents shall be posted to or submitted in person to the Buildings Department:

## For submissions relating to advisory letter/order/notice/direction:

Receipt & Despatch Counter, Building Department, 12/F Pioneer Centre, 750 Nathan Road, Kowloon.

# For other submissions to the New Buildings Division:

Receipt & Despatch Counter, Building Department, 7/F Cityplaza Three, 14 Taikoo Wan Road, Quarry Bay, Hong Kong.

# D. Contact Details

**Buildings Department** 

Address: 12/F, Pioneer Centre, 750 Nathan Road, Kowloon.

Tel No.: 2626 1616 (handled by "1823")

Fax No.: 2537 4992 Email: enquiry@bd.gov.hk



Residential

Address:

Building Type:

# RTTV Summary Sheet

Notes:

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VLT = Visible Light Transmittance
Window and skylight data should represent the major proportion
of its use in the development.

**PNAP APP-156** Appendix

BD Ref. No.

RTTV calculated by		1. Regis	1. Registered Professional Engineers															
		2. Archi	tect															
		3. Others, please specify:																
No. of Store (Residential																		
Table 1																		
			Deemed to Satisfy RTTV <sub>Wall</sub>															
Facade Orientation Facing																		
Average Absorptivity																		
Average Window to Wall Ratio																		
Shading Coefficient of Glazing			_				-		-							_		
Average Shading Coefficient of Faca			ide															
Visible Light Transmittance				%			% %				%			% % % %		_	%	
External Reflectance					%	%	0	%		%		%		%		%	%	
Table 2	Hara establishmen		CONTROL TO SE	*********	HINKS HATCHE					(697)561.67		instance:				(Antagasia)	ericonomical de la company	
Farada Oda								RTTV	Wall									
Facade Orie	ntation	Sou	Southwest			W	est		Northwe			est						
Wall Oriental	tion Factor	1.092				1.	131			0.	965							
Total Externa			FO FG m² Window to Wall				.61 m²		v to Wall			Windo	dow to Wall		m²	Windo	ow to Wall	
(Residential Units)		- 0 0			.334				740	70.05		Ratio		Ratio				
Total Windov		16.91		m² 0.334		197	.23 m²	U	.713	1.73 m²		(	0.03		m²			
Heat Conduction	Opaque Wall		2.2	2.24		W/m²		)5	W/m²		2.91		W/m²				W/m²	
	Window			0.35 W/m²		0.77		77	W/m²		0.0	02	W/m²				W/m²	
Window	Glass Type		Area=	SC=	VLT= %		Area=	SC=	VLT= %		Area=	SC=	VLT= %		Area=	SC=	VLT= %	
		Reflective	M Area=	SC=	ER= %		m² Area=		ER= %	Reflective	e m² Area=	SC=	ER= %	Reflective	m² Area=	SC=	ER= %	
		Tinted	m <sup>2</sup>		ER= %	Tinted	m²		ER= %	Tinted	m²	30-	ER= %	Tinted	m²	30-	ER= %	
		Clear	Area= 16.91	SC= 0.32	VLT= 50 % ER= 14 %		Area= 197.23 m²	0 00	VLT= 50% ER= 14 %	☑ Clear	Area= 1.73 m²	SC= 0.32	VLT= 50 % ER= 14 %	Clear	Area= m²	SC=	VLT= 50 % ER= %	
	Double Glazing	V		Yes No			✓ Yes	; []	No		✓ Yes		No	Yes		; <u> </u>	No	
	External Shading	Overhang		Yes No		Overhang V		Yes	No Overha		ng Yes		☑ No	Overhang	g [	Yes	☐ No	
		Sidefin	[	Yes	☑ No	Sidefin		Yes	☐ No	Sidefin		Yes	☑ No	Sidefin		Yes	☐ No	
Solar Radiation through Glazing				4.88 W/m² 0.35			9.87 0.377			W/m² 0.3			W/m²				W/m²	
Average Absorptivity									7.727			35					1000.0 00	
RTTV <sub>Wall</sub> at each facade			7.	47	W/m²		11	.69	W/m²			25	W/m²				W/m²	
Overall RTTV <sub>Wall</sub>										W	/m²							
Table 3																		
								RTTV	Roof									
Roof Oriental																		
Total Roof Area (Residential		tial Units)	m²															
Total Skylight Area			m²															
Heat Conduction	Roof			W/m²														
	Skylight	Skylight							W/m²									
Skylight	Glass Type		R	Reflective Area			a= m²			SC=		VLT=			ER=		%	
				Tinted Area=				m² SC=				VLT=		%			%	
				lear	Are	a=		m²	SC=			VLT= % ER= %					%	
	Double G	Double Glazing								Yes	☐ No							
	External S	External Shading		☐ Yes ☐ No														
Solar Radiation through Gla		Blazing								W	/m²							
Average Abso	orptivity (roof	7																
Overall RTTV <sub>Roof</sub>			W/m²															
														150 / 4=		1001	2016) - P1/1	

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