

RTTV Summary Sheet

Address: PROPOSED REDEVELOPMENT AT NOS. 340-342 FUK WING STREET, NOS. 27-29 TOKIN STREET AND NOS. 249-263 UN CHAU STREET, CHEUNG SHA WAN, KOWLOON		BD Ref. No.
Building Type:	Residential	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	29	

Table 1

Deemed to Satisfy RTTV _{wall}								
Facade Orientation Facing	East	North	West	South	North East	North West	South East	South West
Average Absorptivity	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Average Window to Wall Ratio	0.12	0.47	0.09	0.61	0.54	0.15	0.55	0.49
Shading Coefficient of Glazing	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Average Shading Coefficient of Facade	0.37	0.43	0.37	0.38	0.42	0.41	0.41	0.38
Visible Light Transmittance	71 %	71 %	71 %	71 %	71 %	70 %	71 %	71 %
External Reflectance	11 %	11 %	11 %	11 %	11 %	11 %	11 %	11 %

Table 2

RTTV _{wall}																	
Facade Orientation Facing		North East				North West				South East				South West			
Wall Orientation Factor																	
Total External Wall Area (Residential Units)		3286.03 m ²		Window to Wall Ratio = 0.54		1458.22 m ²		Window to Wall Ratio = 0.15		1732.41 m ²		Window to Wall Ratio = 0.55		2465.11 m ²		Window to Wall Ratio = 0.49	
Total Window Area		1763.62 m ²				225.76 m ²				959.93 m ²				1219.08 m ²			
Heat Conduction	Opaque Wall	2.57 W/m ²		5.42 W/m ²		2.77 W/m ²		3.39 W/m ²									
	Window	0.50 W/m ²		0.15 W/m ²		0.47 W/m ²		0.55 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	681.3 m ²	0.47	VLT=71 % ER= 11 %	<input checked="" type="checkbox"/> Clear	105.9 m ²	0.47	VLT=70 % ER= 11 %	<input checked="" type="checkbox"/> Clear	269.4 m ²	0.47	VLT=71 % ER= 11 %	<input checked="" type="checkbox"/> Clear	615.1 m ²	0.47	VLT=71 % ER= 11 %
	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	
External Shading	Overhang	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Overhang <input type="checkbox"/> Yes <input checked="" 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		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 Gazing		8.71 W/m ²		2.62 W/m ²		8.43 W/m ²		8.60 W/m ²									
Average Absorptivity		0.9		0.9		0.9		0.9									
RTTV _{wall} at each facade		11.78 W/m ²		8.19 W/m ²		11.67 W/m ²		12.54 W/m ²									
Overall RTTV _{wall}		11.18 W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Factor						
Total Roof Area (Residential Units)		195.43 m ²				
Total Skylight Area		0 m ²				
Heat Conduction	Roof	2.28 W/m ²				
	Skylight	0 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 W/m ²				
Average Absorptivity (roof)		0.7				
Overall RTTV _{Roof}		2.28 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.