Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL BD Ref. No.
	6514, Kwun Tong, Kowloon 2/4023/12(Pt II)
Building Type :	Residential Tower
RTTV calculated by	1. Registered Professional Engineers (Building Services/Mechanical)
**	□ 2. Architect
	☐ 3. Others, please specify:
No. of Storeys	39
(Residential Units)	

Table 1

	Deemed to Satisfy RTTVwall									
Faacde Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										
Average Shading Corfficient of Facade										
Visible Light Transmittance	%	%	%	%	%	%	%	%		
External Reflectance	%	%	%	%	%	%	%	%		

Table 2

able 2																	
							R	TTVwall	I								
Façade Orien Facing	tation		North No	orth Eas	st	East North East				East South East					South South East		
Wall Orientat	ion Factor		0.9	24			1.0	72			1.0	51			0.9	75	
T: xterna	l Wall Area Jnits)	1998.83m² Window to Wall Ratio		228	31.34m²	Windo Ratio	w to Wall	365	1.64m²	Windo Ratio	w to Wall	3124.79m²		Window to Wall Ratio			
Total Window Area 8		43.19m²	=0.42		106	52.66m²	=0.47		217	'0.86m²	=0.59		166	6.28m²	=0.53	3	
Heat Opaque 2. Conduction Wall			2.51V	V/m²		2.32W/m²					1.75V	V/m²			1.92V	V/m²	
	Window	indow 0.93W/m²					1.15	V/m²			1.54	V/m²			1.22	V/m²	
Window	Glass Type	☑ Tinted	Area= 393.79m²	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area=	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area= 877.16m²	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area= 855.83m²	SC =0.59	VLT=58% ER=8%
		☑ Tinted	Area=	SC =0.67	VLT=66% ER=5%	☑ Tinted	Area=	SC =0.67	VLT=66% ER=5%	☑ Tinted	Area= 675.22m²	SC =0.67	VLT=66% ER=5%	☑ Tinted	Area=	SC =0.67	VLT=66% ER=5%
		☑ Tinted	Area=	sc /	VLT=61% ER=8%	☑ Tinted	Area= 244.89m²	sc	VLT=61% ER=8%	☑ Tinted	Area= 512.42m²	sc	VLT=61% ER=8%	☑ Tinted	Area= 361.24m ²	SC =0.64	VLT=61% ER=8%
		Tinted	Area=	SC =	VLT=% ER=%	0	Area=	SC =	VLT=% ER=%	☐ Tinted	Area=	sc	VLT=% ER=%	☐ Tinted	Area=	SC =	VLT=% ER=%
	Double Glazing		✓ Yes		No	Tinted [✓ Yes		No	17787761800	✓ Yes		No	100000000000000000000000000000000000000	✓ Yes		No
	External Shading	Overh Sidefir			□ No No	Overh: Sidefin			□ No No	Overh		-	□ No No	Overh			□ No No
Solar Radiation	on through		9.30V	V/m²			11.81	N/m²			13.89	W/m²			11.64	W/m²	
Average Abso	orptivity		0.6				0.6	59			0.6	57			0.6	18	
R' all at ea	R' all at each façade 12.74W/m²		W/m²		15.28W/m²					17.18	W/m²			14.77	W/m²		
Overall RTTV	wall								13.97	'W/m²							

Table 3

		RTTVRoof									
on Facing			2.16								
ea (Residential Units)		502.88m²									
Area			0m²								
Roof			3.23W/m ²								
Skylight			0W/m²								
Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %						
Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %						
External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
Double Glazing			☐ Yes ☐ No								
External Shading			☐ Yes ☐ No								
n through Glazing		0W/m²									
rptivity (roof)	0.7										
oof	3.23W/m²										
	a (Residential Units) Area Roof Skylight Glass Type Double Glazing External Shading Double Glazing External Shading external Shading through Glazing rptivity (roof)	a (Residential Units) Area Roof Skylight Glass Type Double Glazing External Shading Double Glazing External Shading through Glazing ptivity (roof)	on Facing a (Residential Units) Area Roof Skylight Glass Type Double Glazing External Shading Double Glazing External Shading Through Glazing Through Glazing	2.16	2.16						

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL	BD Ref. No.
	6514, Kwun Tong, Kowloon	2/4023/12(Pt II)
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
,	□ 2. Architect	
	☐ 3. Others, please specify:	
No. of Storeys	39	
(Residential Units)		

Table 1

		De	emed to Satisfy	y RTTVwall				
Faacde Orientation Facing								
Average Absorptivity								
Average Window to Wall Ratio								
Shading Coefficient of Glazing								
Average Shading Corfficient of Facade								
Visible Light Transmittance	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%

able 2																	
							F	RTTVwall	l .								
Façade Orien	ation		South So	uth We	st	West South West				West North West			st	North North West			
Facing																	
Wall Orientat				92		1.131				170.7	65		0.7				
	Wall Area	238	33.32m²	Window to Wall		266	0.44m²	300000000000000000000000000000000000000	w to Wall	450)4.14m²	10/09/10000176/07	w to Wall	271	.7.75m²	Window to	
(Residential L				Ratio			1	Ratio = 0.30		204	r 22 - 2	Ratio =0.45		-	4 702	Wall I =0.3!	
Total Windov	Area	//	12.61m²	=0.31		/8	85.07m²	=0.30		203	.5.23m²	=0.45		96	4.79m²	-0.5.	,
Heat Conduction	Opaque Wall		3.17W/m²				4.82\	N/m²			2.64	N/m²			2.81\	N/m²	
	Window		0.67\			0.86\	N/m²			1.10	N/m²			0.66\	N/m²		
Window	Glass	☑ Area= SC VLT=58%			VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	SC	VLT=58%	Ø	Area=	sc	VLT=58%
	Туре	Tinted	520.20m²	=0.59	ER=8%	Tinted	322.29m²	=0.59	ER=8%	Tinted	816.38m²	=0.59	ER=8%	Tinted	524.90m²	=0.59	ER=8%
		☑	Area=	sc	VLT=66%	Ø	Area=	sc	VLT=66%	Ø	Area=	SC	VLT=66%	☑	Area=	sc	VLT=66%
		Tinted	2.33m²	=0.67	ER=5%	Tinted	344.32m²	=0.67	ER=5%	Tinted	742.84m²	=0.67	ER=5%	Tinted	258.77m²	=0.67	ER=5%
			Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%
		Tinted	218.07m ²	=0.64	ER=8%	Tinted	118.47m²	=0.64	ER=8%	Tinted	456.02m²	=0.64	ER=8%	Tinted	181.12m²	=0.64	ER=8%
			Area=	SC	VLT=%		Area=	SC	VLT=%	Ø	Area=	SC	VLT=69%		Area=	SC	VLT=% ER=%
	Double	Tinted	 ✓ Yes	<u> -</u>	ER=% No	Tinted	 ✓ Yes	<u> -</u>	ER=%	Tinted	34.98m² ✓ Yes	=0.70	ER=5%	Tinted	✓ Yes		No
	Glazing		M Tes	ш	INO	,	<u> 162</u>	ш	INO		☑ Yes □ No			Yes 🗆 No			NO
	External	Overh	ang 🗆	Yes	✓ No	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No
	Shading	Sidefin	U		No	Sidefir		es 🗆	No	Sidefir		es 🗆	No	Sidefir		es 🗆	No
Solar Radiatio	n through																
Glazing	_	8.57W/m²					7.73	W/m²			10.17	W/m²			7.12	N/m²	
Average Abso	rptivity	ty 0.6					0.6	527			0.6	539			0	.6	
R7 II at ea	RT II at each façade 12.41W/m²					13.41W/m²				13.91W/m² 10.59W/m²							
Overall RTTV	vall								13.97	'W/m²							

Table 3

			RTTVRoof									
Roof Orientat	ion Facing											
Total Roof Are	ea (Residential Units)	m²										
Total Skylight Area			m²									
Heat	Roof	W/m²										
Conduction	Skylight			W/m²								
Skylight	Glass Type	Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☑ Tinted	Area= m²	SC=	VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing			☐ Yes ☐ No								
	External Shading			☐ Yes ☐ No								
Solar Radiation through Glazing		W/m²										
Average Abso	rptivity (roof)											
Overall RTTVF	toof	W/m²										

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL	BD Ref. No.
	6514, Kwun Tong, Kowloon	2/4023/12(Pt II)
Building Type :	Residential Tower	
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)	
	□ 2. Architect	
	☐ 3. Others, please specify:	
No. of Storeys	43	
(Residential Units)		

Table 1

	Deemed to Satisfy RTTVwall									
aacde Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										
Average Shading Corfficient of Facade										
Visible Light Transmittance	%	%	%	%	%	%	%	%		
External Reflectance	%	%	%	%	%	%	%	%		

Table 2

able 2																	
							R	TTVwall									
Façade Orient	ation		North No	rth Eas	st		East Nor	th East	t	East South East					South South East		
Wall Orientati	on Factor		0.9	24		1.072				1.051					0.975		
	r xternal Wall Area 2796.91mi Resudential Units)		6.91m²	Window to Wall Ratio		367	4.76m²	Window to Wall Ratio		327	3278.92m ² v		w to Wall	3242m²		Window to Wall Ratio	
Total Window	Area	25	8.86m²	=0.09		183	3.82m²	=0.5		95	2.46m²	=0.29		97	7.20m²	=0.3	
Heat Conduction	Opaque Wall		5.23V	V/m²			2.12V	V/m²			3.97V	V/m²			3.90V	V/m²	
	Window	w 0.20W/m²					1.22V	V/m²			0.78	V/m²			0.70V	V/m²	
Window	Glass	Ø	Area=	sc	VLT=58%	Ø	Area=	SC	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%
	Type	Tinted	175.66m²	=0.59	ER=8%	Tinted	962.28m²	=0.59	ER=8%	Tinted	574.72m²	=0.59	ER=8%	Tinted	456.68m²	=0.59	ER=8%
			Area=	SC	VLT=%	\square	Area=	SC	VLT=66%	☑	Area=	SC	VLT=66%	Ø	Area=	SC	VLT=66%
		Tinted	m²	=	ER=%	Tinted	419.64m²	=0.67	ER=5%	Tinted	293.63m²	=0.67	ER=5%	Tinted	280.48m²	=0.67	ER=5%
-		☑	Area=	sc	VLT=61%	☑	Area=	SC	VLT=61%	Ø	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%
		Tinted	83.21m²	=0.64	ER=8%	Tinted	451.91m²	=0.64	ER=8%	Tinted	84.11m²	=0.64	ER=8%	Tinted	240.05m ²	=0.64	ER=8%
		☑	Area=	SC	VLT=69%		Area=	SC	VLT=%	☑	Area=	SC	VLT=69%		Area=	SC	VLT=%
		Tinted	27.82m²	=0.70	ER=5%	Tinted	m²	=	ER=%	Tinted	41.54m²		ER=5%	Tinted	m²	=	ER=%
	Double Glazing	E	☑ Yes		No	[☑ Yes		No	[☑ Yes		No	☑ Yes □ No			No
	External	Overha	ang 🗆	Yes	☑ No	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No	Overha	ang ☑	Yes	□ No
	Shading	Sidefin	☐ Ye	s 🗹	No	Sidefin	☑ Ye	s 🗆	No	Sidefin	✓ Ye	s 🗆	No	Sidefin	☑ Ye	s \square	No
Solar Radiation	Solar Radiation through														2		
Glazing	Glazing 2.43W/m²				12.48\	M 100 Processor			7.29				6.59V				
Average Absor	ptivity		0.621				0.7	38			0.	6			0.	6	
R at each façade 7.86W/m²					15.83W/m²					12.05	W/m²	V/m² 11.19W/m²					
Overall RTTVw	all								13.40)W/m²							

Table 3

able 5			RTTVRoof									
	NO. 1700 - 1907		KIIVROOT									
Roof Orientat	ion Facing		2.16									
Total Roof Are	ea (Residential Units)		482.17m²									
Total Skylight	Area		0m²									
Heat	Roof			3.23W/m ²								
Conduction	Skylight			0W/m ²								
Skylight	Glass Type	Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing			☐ Yes ☐ No								
	External Shading			☐ Yes ☐ No								
Solar Radiatio	n through Glazing			0W/m²								
Average Abso	orptivity (roof)	0.7										
Overall RTTVF	Roof		3.23W/m²									
		the second secon										

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL 6514, Kwun Tong, Kowloon	BD Ref. No. 2/4023/12(Pt II)						
Building Type :	Residential Tower	2/4023/12(111)						
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)							
	□ 2. Architect							
	☐ 3. Others, please specify:							
No. of Storeys	43							
(Residential Units)								

Table 1

Deemed to Satisfy RTTVwall										
Faacde Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										
Average Shading Corfficient of Facade										
Visible Light Transmittance	%	%	%	%	%	%	%	%		
External Reflectance	%	%	%	%	%	%	%	%		

Table 2

able 2																		
							R	TTVwal										
Façade Orienta Facing	ation		South So	uth We	st		West So	uth We	st	West North West					North North West			
Wall Orientation	all Orientation Factor 1.092					1.1	.31		0.965				100	0.79				
	To sternal Wall Area 3347.16m² (Ressential Units)		17.16m²	Window to Wall Ratio		265	6.31m²	Windo Ratio	Window to Wall Ratio		59.23m²	Windo Ratio	w to Wall	215	1.94m²	Wind Wall I		
Total Window	Area	161	.1.63m²	=0.48		68	2.52m²	=0.26		339	6.06m²	=0.61		97	4.99m²	=0.4	5	
Heat Conduction	Opaque Wall	2.73W/m ²			4.60W/m²					1.20W/m²				1.98W/m²				
	Window	1.28W/m²				0.79\	N/m²			1.42	W/m²			0.85\	N/m²			
Window	Glass	Ø	Area=	SC	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%	
	Type	Tinted	727.37m²	=0.59	ER=8%	Tinted	275.50m²	=0.59	ER=8%	Tinted	1518.18m²	=0.59	ER=8%	Tinted	452.62m²	=0.59	ER=8%	
		Ø	Area=	SC	VLT=66%	Ø	Area=	sc	VLT=66%	Ø	Area=	SC	VLT=66%	☑	Area=	SC	VLT=66%	
		Tinted	549.24m²	=0.67	ER=5%	Tinted	273.79m²	=0.67	ER=5%	Tinted	1096.74m²	=0.67	ER=5%	Tinted	284.18m²	=0.67	ER=5%	
		Ø	Area=	SC	VLT=61%	Ø	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%	
		Tinted	335.01m ²	=0.64	ER=8%	Tinted	133.24m²	=0.64	ER=8%	Tinted	781.14m²	=0.64	ER=8%	Tinted	238.20m²	=0.64	ER=8%	
			Area=	SC	VLT=%	∅	Area=	SC	VLT=69% ER=5%		Area=	SC =	VLT=% ER=%		Area=	SC =	VLT=% ER=%	
	Double	Tinted	 ✓ Yes	=	ER=% No	Tinted	37.98m² ✓ Yes	=0.70	No No	Tinted	2000		DOM: 100	Tinted	✓ Yes		No	
	Glazing	,	vi ies		INO	'	ı res		NO	,	☑ Yes □ No				· res		NO	
	External	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No	Overh	ang 🗹	Yes	□ No	
	Shading	Sidefir	ı ☑ Ye	es 🗆	No	Sidefin	ı ☑ Ye	s 🗆	No	Sidefir	ı ☑ Ye	es 🗆	No	Sidefir	n	es 🗆	No	
Solar Radiation	n through						201 000000					-						
Glazing	Glazing 11.78W/m ²				6.86\	N/m²			13.72	.W/m²			9.14	N/m²				
Average Absor	ptivity		0.654	1			0.6	515			0.6	527			0.6	506		
RT natead	ch façade		15.80	W/m²			12.25	W/m²			16.34	W/m²			11.98	W/m²		
Overall RTTVw	all								13.40)W/m²								

Table 3

			RTTVRoof								
Roof Orientat	ion Facing										
Total Roof Are	ea (Residential Units)			m²							
Total Skylight	Area			m²							
Heat	Roof			W/m²							
Conduction	Skylight		W/m²								
Skylight	Glass Type	Reflective	Area= m²	SC=	VLT= %	ER= %					
	Double Glazing	☑ Tinted	Area= m²	SC=	VLT= %	ER= %					
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %					
	Double Glazing			☐ Yes ☐ No							
	External Shading			☐ Yes ☐ No							
Solar Radiatio	n through Glazing		W/m²								
Average Abso	rptivity (roof)										
Overall RTTVF	toof	W/m²									

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL 6514, Kwun Tong, Kowloon	BD Ref. No. 2/4023/12(Pt II)						
Building Type :	Residential Tower							
RTTV calculated by	✓ 1. Registered Professional Engineers (Building Services/Mechanical)							
	□ 2. Architect							
	☐ 3. Others, please specify:							
No. of Storeys	41							
(Residential Units)								

Table 1

Deemed to Satisfy RTTVwall									
Faacde Orientation Facing									
Average Absorptivity									
Average Window to Wall Ratio									
Shading Coefficient of Glazing									
Average Shading Corfficient of Facade									
Visible Light Transmittance	%	%	%	%	%	%	%	%	
External Reflectance	%	%	%	%	%	%	%	%	

Table 2

able 2																	
							R	TTVwall									
Façade Orient Facing	ation		North No	orth Eas	st		East No	th East	t	East South East					South South East		
Wall Orientati	on Factor		0.9	24			1.0	72			1.0	51		0.975			
			Windo Ratio	w to Wall	3026.16m²		Window to Wall Ratio		293	8.27m²	Windo Ratio	ow to Wall	357	4.47m²	Windo Wall F		
Total Window	Area	45	8.38m²	=0.29		130	2.35m²	=0.43		165	5.40m²	=0.56	j	149	3.65m²	=0.42	2
Heat Conduction	Opaque Wall					2.96V	V/m²			1.88V	V/m²			2.91	V/m²		
	Window				1.17W/m²					1.42V	V/m²			1.00V	V/m²		
Window	Glass	Ø	Area=	SC	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%
	Туре	Tinted	299.71m²	=0.59	ER=8%	Tinted	555.74m²	=0.59	ER=8%	Tinted	729.22m²	=0.59	ER=8%	Tinted	638.78m²	=0.59	ER=8%
			Area=	SC	VLT=%	Ø	Area=	SC	VLT=66%	Ø	Area=	sc	VLT=66%	☑	Area=	SC	VLT=66%
		Tinted	m²	=	ER=%	Tinted	524.24m²	=0.67	ER=5%	Tinted	517.64m²	=0.67	ER=5%	Tinted	514.13m²	-	ER=5%
		☑	Area=	sc	VLT=61%	Ø	Area=	SC	VLT=61%	Ø	Area=	SC	VLT=61%	\square	Area=	SC	VLT=61%
		Tinted	158.67m²	=0.64	ER=8%	Tinted	231.02m²	=0.64	ER=8%	Tinted	408.54m²	=0.64	ER=8%	Tinted	340.73m²	=0.64	ER=8%
			Area=	SC	VLT=%		Area=	SC	VLT=%		Area=	SC	VLT=%		Area=	SC	VLT=% ER=%
	Double Glazing	Tinted [m² ☑ Yes		ER=% No	Tinted [✓ Yes		ER=% No	Tinted				Tinted m² = ER=% ✓ Yes □ No			
	External	Overh	ang 🗆	Yes	☑ No	Overh	ang ☑	Yes	□ No	Overha	ang ☑	Yes	□ No	Overh			□ No
	Shading	Sidefin	□ Ye	s 🗹	No	Sidefin	☑ Ye	s 🗆	No	Sidefin	☑ Ye	s 🗆	No	Sidefin	☑ Ye	s 🗆	No
Solar Radiatio Glazing	n through		6.82V	V/m²			10.31	N/m²	22. 250		13.35	W/m²			8.71	V/m²	
Average Abso	rptivity		0.6				0.6	27			0.6	63			0.6	54	
RT II at ea	ch façade		9.83V	V/m²			14.44	N/m²			16.65	W/m²			12.62	W/m²	
Overall RTTVw	all								13.82	:W/m²	A STATE OF THE STA						

Table 3

			RTTVRoof									
Roof Orientat	ion Facing	2.16										
	ea (Residential Units)		443.89m²									
Total Skylight	Area			0m²								
Heat	Roof	3.23W/m²										
Conduction	Skylight		0W/m²									
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☐ Tinted	Area= m²	SC=	VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing			☐ Yes ☐ No								
	External Shading			☐ Yes ☐ No								
Solar Radiation through Glazing				0W/m²								
Average Abso	orptivity (roof)	0.7										
Overall RTTVRoof		3.23W/m²										

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL	BD Ref. No.						
	6514, Kwun Tong, Kowloon	2/4023/12(Pt II)						
Building Type :	Residential Tower							
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)							
, and the second	□ 2. Architect							
	☐ 3. Others, please specify:							
No. of Storeys	41							
(Residential Units)								

Table 1

Deemed to Satisfy RTTVwall										
Faacde Orientation Facing										
Average Absorptivity										
Average Window to Wall Ratio										
Shading Coefficient of Glazing										
Average Shading Corfficient of Facade										
Visible Light Transmittance	%	%	%	%	%	%	%	%		
External Reflectance	%	%	%	%	%	%	%	%		

Table 2

able 2																	
							F	RTTVwal	I								
Façade Orienta	ation		South So	uth We	st		West So	uth We	st		West No	rth We	st		North No	rth We	est
Facing																	
Wall Orientation	on Factor		1777	92		1.131				0.965				0.79			
	Wall Area	189	8.12m²		w to Wall	2931.11m ² Window to Wall			2805.81m ² Window to Wall			2901.48m²		Window to			
(Researchial Units)				Ratio				Ratio				Ratio				Wall	
Total Window	Total Window Area		0m²	=0		183	5.89m²	=0.63	ł	156	3.41m²	=0.56	•	113	3.41m ²	=0.39)
Heat Conduction	Opaque 7.01W/m²			-		1.33\	N/m²			1.79\	N/m²			2.18\	N/m²		
	Window	0W/m²			1.68W/m²					1.31\	N/m²			0.79\	N/m²		
Window	Glass		Area=	sc	VLT=%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%	Ø	Area=	sc	VLT=58%
	Type	Tinted	m²	=	ER=%	Tinted	914.09m²	=0.59	ER=8%	Tinted	702.56m²	=0.59	ER=8%	Tinted	275.29m²	=0.59	ER=8%
			Area=	sc	VLT=%	Ø	Area=	sc	VLT=66%		Area=	sc	VLT=66%	☑	Area=	SC	VLT=66%
		Tinted	m²	=	ER=%	Tinted	532.63m²	=0.67	ER=5%	Tinted	515.31m ²	=0.67	ER=5%	Tinted	486.08m²	=0.67	ER=5%
			Area=	SC	VLT=%	Ø	Area=	SC	VLT=61%	\square	Area=	SC	VLT=61%	☑	Area=	SC	VLT=61%
		Tinted	m²	=	ER=%	Tinted	389.17m²	=0.64	ER=8%	Tinted	345.55m²	=0.64	ER=8%	Tinted	372.05m²	=0.64	ER=8%
			Area=	SC	VLT=%		Area=	sc	VLT=%		Area=	sc	VLT=%		Area=	SC	VLT=%
		Tinted	m²		ER=%	Tinted	m²	-	ER=%	Tinted	m²	=	ER=%	Tinted	m²	= _	ER=%
	Double Glazing	ı	□ Yes		No		☑ Yes		No	☑ Yes □ No				☑ Yes □ No			No
	External	Overh	ang 🗆		□ No	Overh		(1) (1)	□ No	Overha		1.500-000	□ No	Overh		110000	□ No
	Shading	Sidefin	ı □ Ye	es 🗆	No	Sidefir	ı ☑ Ye	es 🗆	No	Sidefin	✓ Ye	s 🗆	No	Sidefin	☑ Ye	es 🗆	No
	Radiation through								3				2				
Glazing					200290000	W/m²		12.54W/m²					98336961	N/m²			
Average Absor			0.6				0.6	572			0.6	527			0	.6	
RT at eac	ch façade		7.01	N/m²			19.45	W/m²			15.64	W/m²		10.98W/m²			
Overall RTTVw	all								13.82	.W/m²							

Table 3

Table 5												
			RTTVRoof									
Roof Orientat	ion Facing		-									
Total Roof Are	ea (Residential Units)		m²									
Total Skylight	Area		m²									
Heat	Roof		W/m²									
Conduction	Skylight		W/m²									
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☑ Tinted	Area= m²	SC=	VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
ł	Double Glazing			Yes □ No								
	External Shading			Yes 🗆 No								
Solar Radiatio	n through Glazing		W/m²									
Average Abso	rptivity (roof)											
Overall RTTV	toof		W/m²									

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

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

Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL	BD Ref. No.						
	6514, Kwun Tong, Kowloon 2/4023/12(Pt II)							
Building Type :	Residential Tower							
RTTV calculated by	Registered Professional Engineers (Building Services/Mechanical)							
	□ 2. Architect							
	☐ 3. Others, please specify:							
No. of Storeys	40							
(Residential Units)								

Table 1

Deemed to Satisfy RTTVwall											
Faacde Orientation Facing											
Average Absorptivity											
Average Window to Wall Ratio											
Shading Coefficient of Glazing											
Average Shading Corfficient of Facade					*						
Visible Light Transmittance	%	%	%	%	%	%	%	%			
External Reflectance	%	%	%	%	%	%	%	%			

Table 2

able 2																	
						-	R	TTVwal	Ì								
Façade Orient Facing	ation		North No	st	East North East				East South East					South South East			
Wall Orientati	on Factor		0.9	24			1.0	72			1.0	51			0.9	75	
T xternal (Resounded U	Wall Area nits)	162	23.54m²	Windo Ratio	ow to Wall	359	2.07m²	Windo Ratio	w to Wall	253	37.59m²	Windo Ratio	ow to Wall	327	77.72m²	Window to Wall Ratio	
Total Window	Area		0m²	=0		207	'2.13m²	=0.58		146	6.50m²	=0.58	3	133	39.36m²	=0.41	
Heat Conduction	Opaque Wall		5.33\	V/m²			1.74V	V/m²	-		1.85V	V/m²			2.49W/m²		
	Window		ow,	/m²		1.52W/m²					1.48	V/m²			1.04W/m²		
Window	Glass		Area=	sc	VLT=%	Ø	Area=	sc	VLT=58%	Ø	Area=	SC	VLT=58%	Ø	Area=	SC	VLT=58%
	Туре	Tinted	m²	= SC	ER=% VLT=%	Tinted	902.23m²	=0.59 SC	ER=8% VLT=66%	Tinted	647.98m²	=0.59 SC	ER=8% VLT=66%	Tinted	535.80m²	=0.59	ER=8% VLT=66%
		Tinted	Area=	= SC	ER=%	☑ Tinted	Area= 739.22m²		ER=5%	☑ Tinted	Area= 500.17m ²	=0.67	VL1=66% ER=5%	☑ Tinted	Area= 522.66m ²	=0.67	ER=5%
			Area=	sc	VLT=%	M	Area=	SC	VLT=61%	M	Area=	SC	VLT=61%	✓	Area=	SC SC	VLT=61%
		Tinted	m²	=	ER=%	Tinted	430.69m²	=0.64	ER=8%	Tinted	318.35m²	=0.64	ER=8%	Tinted	280.90m²	=0.64	ER=8%
		□	Area=	SC	VLT=% ER=%	□	Area=	SC =	VLT=% ER=%	□	Area=	SC =	VLT=% ER=%	☑ Tinted	Area= 31.75m²	SC =0.70	VLT=69% ER=5%
	Double Glazing		Yes		No		✓ Yes □ No			☑ Yes □ No				☑ Yes □ No			
	External	Overh	ang 🗆	Yes	□ No	Overh	ang 🗹	Yes	□ No	Overhang 🗹 Yes 🗆 No				Overhang 🗹 Yes 🗆 No			
	Shading	Sidefir	ı 🗆 Ye	s 🗆	No	Sidefin	ı ☑ Ye	s 🗆	No	Sidefin	ı ☑ Ye	s 🗆	No	Sidefin ☑ Yes ☐ No			
Solar Radiation through Glazing			ow,	/m²		13.89W/m²				13.48W/m²				8.73W/m²			
Average Abso	rptivity		0.6			0.648			0.633				0.6				
R' ıll at ead	ch façade		5.33V	V/m²		17.16W/m²			16.82W/m²				12.25W/m²				
Overall RTTVw	all								13.69	W/m²							
											400						

Table 3

Table 5												
			RTTVRoof									
Roof Orientat	ion Facing		2.16									
Total Roof Are	ea (Residential Units)			458.05m ²								
Total Skylight	Area			0m²								
Heat	Roof			3.23W/m ²								
Conduction	Skylight			0W/m²								
Skylight	Glass Type	☐ Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☐ Tinted	Area= m²	SC=	SC= VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing			□ Yes □ No								
	External Shading	500 Pa		☐ Yes ☐ No								
Solar Radiation through Glazing				0W/m²								
Average Absorptivity (roof)				0.7								
Overall RTTV	Roof		3.23W/m²									

 ${\sf ER} \; = \; {\sf External} \; {\sf Reflectance}; \; {\sf SC} \; = \; {\sf Shading} \; {\sf coefficient} \; \& \; {\sf VLT} \; = \; {\sf Visible} \; {\sf Light} \; {\sf Transmittance}$

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

	CONTROL OF ACT MAN CONTROL MAN CONTROL AND						
Address :	URA Kwun Tong Town Centre Redevelopment (Area 2&3) at NKIL	BD Ref. No.					
	6514, Kwun Tong, Kowloon	2/4023/12(Pt II)					
Building Type :	Residential Tower						
RTTV calculated by	☑ 1. Registered Professional Engineers (Building Services/Mechanical)						
	☐ 2. Architect	X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1					
	☐ 3. Others, please specify:						
No. of Storeys	40						
(Residential Units)							

Table 1

Deemed to Satisfy RTTVwall												
Faacde Orientation Facing												
Average Absorptivity												
Average Window to Wall Ratio	Average Window to Wall Ratio											
Shading Coefficient of Glazing												
Average Shading Corfficient of Facade												
Visible Light Transmittance	%	%	%	%	%	%	%	%				
External Reflectance	%	%	%	%	%	%	%	%				

able 2																	
							F	RTTVwal	i								
Façade Orientation Facing			South So	uth We	st	West South West				West North West				North North West			
Wall Orientati	on Factor		1.0	092			1.1	L31			0.9	965			0.	79	
To xternal Wall Area (Resugential Units)		109	4.32m²	Windo Ratio	w to Wall	309	94.89m²	Windo Ratio	w to Wall	265	7.45m²	Windo Ratio	ow to Wall	370)7.53m²	Window to Wall Ratio	
Total Window	Area	21	.3.82m²	=0.20		108	35.81m²	=0.35		150)6.38m²	=0.57		179	94.61m²	=0.4	3
Heat Conduction	Opaque Wall		4.07	W/m²			3.46\	N/m²			1.79W/m²				1.73W/m²		
	Window		0.42	W/m²		(/	0.91	N/m²			1.33W/m²				0.94W/m ²		
Window	Glass Type	☑ Tinted	Area= 138.35m²	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area= 595.82m²	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area= 759.03m²	SC =0.59	VLT=58% ER=8%	☑ Tinted	Area= 802.97m²	SC =0.59	VLT=58% ER=8%
		□ Tinted	Area=	SC =	VLT=% ER=%	☑ Tinted	Area= 262.76m²	SC =0.67	VLT=66% ER=5%	☑ Tinted	Area= 500.17m²	SC =0.67	VLT=66% ER=5%	☑ Tinted	Area= 632.63m²	SC =0.67	VLT=66% ER=5%
		☑ Tinted	Area= 75.47m²	SC =0.64	VLT=61% ER=8%	☑ Tinted	Area= 227.23m²	SC =0.64	VLT=61% ER=8%	☑ Tinted	Area= 247.19m²	SC =0.64	VLT=61% ER=8%	☑ Tinted	Area= 359.01m ²	SC =0.64	VLT=61% ER=8%
		□ Tinted	Area=	SC =	VLT=% ER=%	□ Tinted	Area=	SC =	VLT=% ER=%	□ Tinted	Area=	SC =	VLT=% ER=%	□ Tinted	Area=	SC =	VLT=% ER=%
	Double Glazing	[☑ Yes	☑ 1	No		☑ Yes ☐ No			☑ Yes □ No				☑ Yes □ No			
	External Shading	Overh: Sidefin		10000000	☑ No No	Overh Sidefir			□ No No	Overhang ☑ Yes ☐ No Sidefin ☑ Yes ☐ No			□ No No	Overhang ☑ Yes ☐ No Sidefin ☑ Yes ☐ No			
Solar Radiatio Glazing	n through		5.41	N/m²			9.35\	N/m²		13.05W/m²				9.78W/m²			
Average Abso	rptivity		0.6				0.6	648		0.627					0.6	506	
R ⁷ II at ea	ch façade	9.90W/m²				13.72W/m²			16.17W/m²				12.46W/m²				
Overall RTTVw	rall								13.69	W/m²							

Table 3

			RTTVRoof									
Roof Orientat	ion Facing			et newson								
Total Roof Ar	ea (Residential Units)		m²									
Total Skylight	Area			m²								
Heat	Roof			W/m²								
Conduction	Skylight			W/m²								
Skylight	Glass Type	Reflective	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing	☑ Tinted	Area= m²	SC=	VLT= %	ER= %						
	External Shading	☐ Clear	Area= m²	SC=	VLT= %	ER= %						
	Double Glazing			Yes 🗆 No								
	External Shading		☐ Yes ☐ No									
Solar Radiatio	on through Glazing		W/m²									
Average Absorptivity (roof)												
Overall RTTV	Roof		W/m²									

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

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