

RTTV Summary Sheet

Address : Proposed Redevelopment at No. 3 Marble Road, North Point		BD Ref. No. BD 2/3008/15/(1)
Building Type :	Residential Tower	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers (Building Services/Mechanical)	
	<input type="checkbox"/> 2. Architect	
	<input type="checkbox"/> 3. Others, please specify :	
No. of Storeys (Residential Units)	22	

Table 1

Deemed to Satisfy RTTV _{wall}									
Façade Orientation Facing									
Average Absorptivity									
Average Window to Wall Ratio									
Shading Coefficient of Glazing									
Average Shading Coefficient of Façade									
Visible Light Transmittance	%	%	%	%	%	%	%	%	%
External Reflectance	%	%	%	%	%	%	%	%	%

Table 2

RTTV _{wall}																	
Façade Orientation Facing		East-Northeast				North-Northwest				West-Southwest				South-Southeast			
Wall Orientation Factor		1.072				0.79				1.131				0.975			
Total External Wall Area (Residential Units)		960.66m ²		Window to Wall Ratio =0.36		1636.6m ²		Window to Wall Ratio =0.25		885.06m ²		Window to Wall Ratio =0.38		2578.52m ²		Window to Wall Ratio =0.55	
Total Window Area		349.73m ²				414.58m ²				332m ²				1405.60m ²			
Heat Conduction	Opaque Wall	6.87W/m ²				5.70W/m ²				5.13W/m ²				4.08W/m ²			
	Window	0.73W/m ²				0.39W/m ²				0.84W/m ²				0.95W/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 checked="" type="checkbox"/> Tinted	69.19m ²	0.57	VLT=50% ER=8%	<input checked="" type="checkbox"/> Tinted	196.77m ²	0.57	VLT=50% ER=8%	<input checked="" type="checkbox"/> Tinted	69.19m ²	0.57	VLT=50% ER=8%	<input checked="" type="checkbox"/> Tinted	504.80m ²	0.57	VLT=50% ER=8%
		<input checked="" type="checkbox"/> Tinted	14.20m ²	0.58	VLT=51% ER=10%	<input checked="" type="checkbox"/> Tinted	3.66m ²	0.58	VLT=51% ER=10%	<input checked="" type="checkbox"/> Tinted	14.20m ²	0.58	VLT=51% ER=10%	<input checked="" type="checkbox"/> Tinted	35.40m ²	0.58	VLT=51% ER=10%
		<input checked="" type="checkbox"/> Tinted	266.35m ²	0.59	VLT=52% ER=9%	<input checked="" type="checkbox"/> Tinted	214.15m ²	0.59	VLT=52% ER=9%	<input checked="" type="checkbox"/> Tinted	248.62m ²	0.59	VLT=52% ER=9%	<input checked="" type="checkbox"/> Tinted	865.40m ²	0.59	VLT=52% ER=9%
		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		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		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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sidefin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Solar Radiation through Glazing		7.42W/m ²				5.35W/m ²				8.89W/m ²				9.73W/m ²			
Average Absorptivity		0.9				0.9				0.9				0.9			
RTTV _{wall} at each façade		15.02W/m ²				11.19W/m ²				15.69W/m ²				14.77W/m ²			
Overall RTTV _{wall}		13.94W/m ²															

Table 3

RTTV _{Roof}						
Roof Orientation Facing		2.16				
Total Roof Area (Residential Units)		168.4m ²				
Total Skylight Area		0m ²				
Heat Conduction	Roof	3.62W/m ²				
	Skylight	0W/m ²				
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area= m ²	SC=	VLT= %	ER= %
	Double Glazing	<input type="checkbox"/> Tinted	Area= m ²	SC=	VLT= %	ER= %
	External Shading	<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		0W/m ²				
Average Absorptivity (roof)		0.9				
Overall RTTV _{Roof}		3.62W/m ²				

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

Notes :

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

(9/2014)