

Address: Proposed Residential & Commercial Development on T.M.T.L. No. 539, Hoi Wing Road and Hang Fu Street, Area 16, Tuen Mun, N.T.		BD Ref. No.
Building Type:	Residential (FOR TOWER 1)	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input checked="" type="checkbox"/> 3. Others, please specify: BEAM Consultant	
No. of Storeys (Residential Units)	24	

Table 1

Deemed to Satisfy RTTV _{Wall}								
Facade Orientation Facing	North	East	South	West				
Average Absorptivity	0.89	0.90	0.87	0.46				
Average Window to Wall Ratio	0.41	0.25	0.44	0				
Shading Coefficient of Glazing	0.48-0.49	0.48-0.49	0.48-0.63					
Average Shading Coefficient of Facade	0.48	0.48	0.49					
Visible Light Transmittance	52 %	52 %	50-53 %					
External Reflectance	20 %	20 %	13-20 %					

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North				East				South				West			
Wall Orientation Factor		0.790				1.072				0.44				1.131			
Total External Wall Area (Residential Units)		3820.72 m ²		Window to Wall Ratio = 0.41		1104.06 m ²		Window to Wall Ratio = 0.25		4351.01 m ²		Window to Wall Ratio = 0.44		959.47 m ²		Window to Wall Ratio = 0	
Total Window Factor		1558.56 m ²				276.69 m ²				1929.63 m ²				0 m ²			
Heat Conduction	Opaque Wall	5.83 W/m ²				10.13 W/m ²				6.60 W/m ²				7.30 W/m ²			
	Window	0.38 W/m ²				0.32 W/m ²				0.56 W/m ²				0 W/m ²			
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 1558.56 m ²	SC= 0.48	VLT= 52 % ER= 20 %	<input checked="" type="checkbox"/> Reflective	Area= 276.69 m ²	SC= 0.48	VLT= 52 % ER= 20 %	<input checked="" type="checkbox"/> Reflective	Area= 1929.63 m ²	SC= 0.49	VLT= 50-53 % ER= 13-20 %	<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 type="checkbox"/> Clear	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= %	<input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> 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 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Overhang <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Sidfin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidfin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		6.52 W/m ²				5.41 W/m ²				8.84 W/m ²				0 W/m ²			
Average Absorptivity		0.89				0.90				0.87				0.46			
RTTV _{Wall} at each facade		4.75 W/m ²				1.71 W/m ²				6.80 W/m ²				0.68 W/m ²			
Overall RTTV _{Wall}		13.95 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		360.59 m ²							
Total Skylight Area		- m ²							
Heat Conduction	Roof	2.67 W/m ²							
	Skylight	- 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	
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		
Solar Radiation through Glazing		- W/m ²							
Average Absorptivity (roof)		0.70							
Overall RTTV _{Roof}		2.67 W/m ²							

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;
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 - (c) facilitating communication between the Buildings Department and yourself.
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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:

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For other submissions to the New Buildings Division:

Receipt & Despatch Counter, Buildings Department, 7/F, 14 Taikoo Wan Road, Taikoo Shing, Hong Kong.

D. Contact Details

Buildings Department

Address: Buildings Department Headquarters, North Tower, West Kowloon Government Offices, 11 Hoi Ting Road, Yau Ma Tei, Kowloon

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

Fax No.: 2537 4992

Email: enquiry@bd.gov.hk

Address: Proposed Residential & Commercial Development on T.M.T.L. No. 539, Hoi Wing Road and Hang Fu Street, Area 16, Tuen Mun, N.T.		BD Ref. No.
Building Type:	Residential (FOR TOWER 2)	
RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
	<input type="checkbox"/> 2. Architect	
	<input checked="" type="checkbox"/> 3. Others, please specify: BEAM Consultant	
No. of Storeys (Residential Units)	22	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	North	East	South	West					
Average Absorptivity	0.78	0.78	0.88	0.45					
Average Window to Wall Ratio	0.44	0.29	0.34	0.05					
Shading Coefficient of Glazing	0.48-0.97	0.48-0.49	0.48-0.97	0.48-0.49					
Average Shading Coefficient of Facade	0.59	0.48	0.53	0.48					
Visible Light Transmittance	52-89 %	52 %	52-89 %	52 %	%	%	%	%	%
External Reflectance	8-20 %	20 %	8-20 %	20 %	%	%	%	%	%

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North				East				South				West			
Wall Orientation Factor		0.790				1.072				0.44				1.131			
Total External Wall Area (Residential Units)		1776.95 m ²		Window to Wall Ratio = 0.41		1421.70 m ²		Window to Wall Ratio = 0.25		1137.43 m ²		Window to Wall Ratio = 0.44		1601.74 m ²		Window to Wall Ratio = 0.05	
Total Window Factor		776.63 m ²		419.05 m ²		386.79 m ²		84.50 m ²									
Heat Conduction	Opaque Wall	4.89 W/m ²				8.27 W/m ²				7.95 W/m ²				6.79 W/m ²			
	Window	0.60 W/m ²				0.37 W/m ²				0.48 W/m ²				0.07 W/m ²			
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 776.63 m ²	SC= 0.59	VLT= 52-89% ER= 8-20%	<input checked="" type="checkbox"/> Reflective	Area= 419.05 m ²	SC= 0.48	VLT= 52 % ER= 20 %	<input checked="" type="checkbox"/> Reflective	Area= 386.79 m ²	SC= 0.53	VLT= 52-89% ER= 8-20 %	<input checked="" type="checkbox"/> Reflective	Area= 84.50 m ²	SC= 0.48	VLT= 52 % ER= 20 %
		<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 type="checkbox"/> Clear	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= %	<input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Sidfin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> 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		8.54 W/m ²				6.39 W/m ²				7.40 W/m ²				1.20 W/m ²			
Average Absorptivity		0.78				0.78				0.88				0.45			
RTTV _{Wall} at each facade		3.40 W/m ²				2.91 W/m ²				2.45 W/m ²				1.76 W/m ²			
Overall RTTV _{Wall}		13.78 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		225.2 m ²							
Total Skylight Area		- m ²							
Heat Conduction	Roof	2.67 W/m ²							
	Skylight	- 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		- W/m ²							
Average Absorptivity (roof)		0.70							
Overall RTTV _{Roof}		2.67 W/m ²							

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RTTV calculated by	<input type="checkbox"/> 1. Registered Professional Engineers	
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	<input checked="" type="checkbox"/> 3. Others, please specify: BEAM Consultant	
No. of Storeys (Residential Units)	22	

Table 1

Deemed to Satisfy RTTV _{Wall}									
Facade Orientation Facing	South East	North East							
Average Absorptivity	0.90	0.90							
Average Window to Wall Ratio	0.46	0.03							
Shading Coefficient of Glazing	0.48-0.63	0.48							
Average Shading Coefficient of Facade	0.49	0.48							
Visible Light Transmittance	50-52 %	52 %	%	%	%	%	%	%	%
External Reflectance	13-20 %	20 %	%	%	%	%	%	%	%

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		South East				North East											
Wall Orientation Factor		1.051				0.924											
Total External Wall Area (Residential Units)		1243.55 m ²	Window to Wall Ratio = 0.46		155.75 m ²	Window to Wall Ratio = 0.03		m ²	Window to Wall Ratio =		m ²	Window to Wall Ratio =					
Total Window Factor		576.69 m ²			4.28 m ²			m ²			m ²						
Heat Conduction	Opaque Wall	7.11 W/m ²				11.33 W/m ²				W/m ²							
	Window	0.63 W/m ²				0.03 W/m ²				W/m ²							
Window	Glass Type	<input checked="" type="checkbox"/> Reflective	Area= 576.69 m ²	SC= 0.49	VLT=50-52% ER=13-20%	<input checked="" type="checkbox"/> Reflective	Area= 4.28 m ²	SC= 0.48	VLT= 52 % ER= 20 %	<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 type="checkbox"/> Clear	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= %	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No							
External Shading	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 type="checkbox"/> No		Overhang <input 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 type="checkbox"/> No		Sidefin <input type="checkbox"/> Yes <input type="checkbox"/> No									
Solar Radiation through Glazing		10.01 W/m ²				0.51 W/m ²				W/m ²							
Average Absorptivity		0.90				0.90											
RTTV _{Wall} at each facade		3.01 W/m ²				0.25 W/m ²				W/m ²							
Overall RTTV _{Wall}						13.78 W/m ²											

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		225.2 m ²							
Total Skylight Area		- m ²							
Heat Conduction	Roof	2.67 W/m ²							
	Skylight	- 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		- W/m ²							
Average Absorptivity (roof)		0.70							
Overall RTTV _{Roof}		2.67 W/m ²							

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