

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.

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAM, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 1)	

Table 1

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

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		88.17 m ²	Window to Wall Ratio			151.88 m ²	Window to Wall Ratio			95.57 m ²	Window to Wall Ratio			144.88 m ²	Window to Wall Ratio		
Total Window Factor		22.30 m ²	= 0.55			19.21 m ²	= 0.13			69.40 m ²	= 0.73			31.55 m ²	= 0.22		
Heat Conduction	Opaque Wall	3.12 W/m ²				5.47 W/m ²				1.04 W/m ²				2.07 W/m ²			
	Window	0.33 W/m ²				0.19 W/m ²				1.12 W/m ²				0.30 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 checked="" type="checkbox"/> Tinted	Area= 22.30m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 19.21 m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 69.40m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 31.55m ²	SC= 0.43	VLT= 50 % ER= 18 %
		<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= %
		<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			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		
		Sidewin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidewin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidewin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Sidewin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Solar Radiation through Glazing		4.20 W/m ²				2.39 W/m ²				14.24 W/m ²				3.77 W/m ²			
Average Absorptivity		0.55				0.66				0.71				0.49			
RTTV _{Wall} at each facade		7.65 W/m ²				8.04 W/m ²				16.40 W/m ²				6.14 W/m ²			
Overall RTTV _{Wall}		9.06 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		105.62 m ²							
Total Skylight Area		N/A m ²							
Heat Conduction	Roof	3.71 W/m ²							
	Skylight	N/A W/m ²							
Skylight	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"/> 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= %
	Double Glazing	<input type="checkbox"/> Yes <input type="checkbox"/> No							
	External Shading	<input type="checkbox"/> Yes <input type="checkbox"/> No							
	Solar Radiation through Glazing	N/A W/m ²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 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:
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 - (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.
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Classes of Transferees

3. 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.
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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:

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

General Enquiry and Receipt Counter, G/F, Buildings Department Headquarters, North Tower, West Kowloon Government Offices, 11 Hoi Ting Road, Yau Ma Tei, Kowloon.

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

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.

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAMI, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 2)	

Table 1

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

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		North East				South East				South West				North West					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		65.78 m²	Window to Wall Ratio			128.84 m²	Window to Wall Ratio			92.96 m²	Window to Wall Ratio			152.19 m²	Window to Wall Ratio				
Total Window Factor		26.01 m²	= 0.40			26.24 m²	= 0.20			66.67 m²	= 0.72			0.00 m²	= 0.22				
Heat Conduction	Opaque Wall	3.33 W/m²				4.42 W/m²				1.10 W/m²				5.90 W/m²					
	Window	0.51 W/m²				0.30 W/m²				1.10 W/m²				0.00 W/m²					
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %		
		<input checked="" type="checkbox"/> Tinted	Area= 26.01m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 26.24m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 66.67m²	SC= 0.43	VLT= 50 % ER= 18 %	<input type="checkbox"/> Tinted	Area= m²	SC=	VLT= % ER= %		
		<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	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 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 checked="" 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 checked="" type="checkbox"/> No		Sidefin	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Solar Radiation through Glazing		6.56 W/m²				3.84 W/m²				14.06 W/m²				0.00 W/m²					
Average Absorptivity		0.60				0.63				0.68				0.67					
RTTV _{Wall} at each facade		10.40 W/m²				8.56 W/m²				16.26 W/m²				5.90 W/m²					
Overall RTTV _{Wall}		9.54 W/m²																	

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		96.33 m ²							
Total Skylight Area		N/A m ²							
Heat Conduction	Roof	3.71 W/m ²							
	Skylight	N/A 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		N/A W/m ²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 W/m ²							

Matters to Note

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Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAM, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 3)	

Table 1

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

Table 2

RTTV _{Wall}																			
Facade Orientation Facing		North East				South East				South West				North West					
Wall Orientation Factor		0.924				1.051				1.092				0.965					
Total External Wall Area (Residential Units)		65.68 m²	Window to Wall Ratio		128.84 m²		Window to Wall Ratio		92.96 m²		Window to Wall Ratio		151.32 m²		Window to Wall Ratio				
Total Window Factor		28.35 m²	= 0.43		26.24 m²		= 0.20		66.67 m²		= 0.72		0.00 m²		= 0.00				
Heat Conduction	Opaque Wall	3.22 W/m²				4.08 W/m²				1.10 W/m²				5.74 W/m²					
	Window	0.56 W/m²				0.30 W/m²				1.10 W/m²				0.00 W/m²					
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %		
		<input checked="" type="checkbox"/> Tinted	Area= 28.35m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 26.24m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 66.67m²	SC= 0.43	VLT= 50 % ER= 18 %	<input type="checkbox"/> Tinted	Area= m²	SC=	VLT= % ER= %		
		<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	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 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 checked="" type="checkbox"/> No		Overhang		<input type="checkbox"/> Yes <input type="checkbox"/> No				
		Sidewin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidewin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidewin		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sidewin		<input type="checkbox"/> Yes <input type="checkbox"/> No				
Solar Radiation through Glazing		7.16 W/m²				3.84 W/m²				14.06 W/m²				0.00 W/m²					
Average Absorptivity		0.62				0.61				0.68				0.66					
RTTV _{Wall} at each facade		10.94 W/m²				8.22 W/m²				16.26 W/m²				5.74 W/m²					
Overall RTTV _{Wall}		9.48 W/m²																	

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		97.29 m²							
Total Skylight Area		N/A m²							
Heat Conduction	Roof	3.71 W/m²							
	Skylight	N/A W/m²							
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Clear	Area=	m²	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		N/A W/m²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 W/m²							

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RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 5)	

Table 1

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

Table 2

RTTV _{Wall}																					
Facade Orientation Facing		North East				South East				South West				North West							
Wall Orientation Factor		0.924				1.051				1.092				0.965							
Total External Wall Area (Residential Units)		65.68 m²	Window to Wall Ratio				128.84 m²	Window to Wall Ratio				92.96 m²	Window to Wall Ratio				151.32 m²	Window to Wall Ratio			
Total Window Factor		28.35 m²	0.43				26.24 m²	0.20				66.67 m²	0.72				0.00 m²	0.00			
Heat Conduction	Opaque Wall	3.22 W/m²				4.59 W/m²				1.10 W/m²				5.62 W/m²							
	Window	0.56 W/m²				0.33 W/m²				1.08 W/m²				0.00 W/m²							
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= %	ER= %
		<input checked="" type="checkbox"/> Tinted	Area= 28.35m²	SC= 0.43	VLT= 50 %	ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 26.24 m²	SC= 0.43	VLT= 50 %	ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 66.67 m²	SC= 0.43	VLT= 50 %	ER= 18 %	<input type="checkbox"/> Tinted	Area= m²	SC=	VLT= %	ER= %
		<input type="checkbox"/> Clear	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= %	ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= %	ER= %
		<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 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 type="checkbox"/> No		
		Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			Sidewall	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	Solar Radiation through Glazing		7.16 W/m²				3.84 W/m²				14.06 W/m²				0.00 W/m²						
	Average Absorptivity		0.62				0.63				0.68				0.65						
	RTTV _{Wall} at each facade		10.94 W/m²				8.73 W/m²				16.26 W/m²				5.62 W/m²						
	Overall RTTV _{Wall}		9.58 W/m²																		

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		97.29 m²							
Total Skylight Area		N/A m²							
Heat Conduction	Roof	3.71 W/m²							
	Skylight	N/A W/m²							
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Clear	Area=	m²	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		N/A W/m²						
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 W/m²							

Matters to Note

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A. Personal Data

Purposes of Collection

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

Fax No.: 2537 4992

Email: enquiry@bd.gov.hk

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.

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAM, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 6)	

Table 1

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

Table 2

RTTV _{Wall}																				
Facade Orientation Facing		North East				South East				South West				North West						
Wall Orientation Factor		0.924				1.051				1.092				0.965						
Total External Wall Area (Residential Units)		60.91 m ²		Window to Wall Ratio		121.97 m ²		Window to Wall Ratio		73.92 m ²		Window to Wall Ratio		154.49 m ²		Window to Wall Ratio				
Total Window Factor		26.30 m ²		= 0.43		26.94 m ²		= 0.22		51.69 m ²		= 0.70		0.00 m ²		= 0.00				
Heat Conduction	Opaque Wall	3.15 W/m ²				5.69 W/m ²				1.20 W/m ²				5.91 W/m ²						
	Window	0.56 W/m ²				0.33 W/m ²				1.08 W/m ²				0.00 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 checked="" type="checkbox"/> Tinted	Area= 26.30m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 26.94 m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 51.69m ²	SC= 0.43	VLT= 50 % ER= 18 %	<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= %			
		<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 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		
		Sidewin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No					Sidewin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No					Sidewin	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Solar Radiation through Glazing		7.16 W/m ²				4.17 W/m ²				13.71 W/m ²				0.00 W/m ²						
Average Absorptivity		0.62				0.69				0.67				0.67						
RTTV _{Wall} at each facade		10.88 W/m ²				10.18 W/m ²				15.98 W/m ²				5.91 W/m ²						
Overall RTTV _{Wall}		9.72 W/m ²																		

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		73.77				m²			
Total Skylight Area		N/A				m²			
Heat Conduction	Roof	3.71				W/m²			
	Skylight	N/A				W/m²			
Skylight	Glass Type	<input type="checkbox"/> Reflective	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Tinted	Area=	m²	SC=	VLT=	%	ER=	%
		<input type="checkbox"/> Clear	Area=	m²	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		N/A				W/m²			
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71				W/m²			

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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.

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAM, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 7)	

Table 1

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

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		60.87 m ²	Window to Wall Ratio			122.08 m ²	Window to Wall Ratio			73.92 m ²	Window to Wall Ratio			154.49 m ²	Window to Wall Ratio		
Total Window Factor		26.30 m ²	= 0.43			26.86 m ²	= 0.22			51.69 m ²	= 0.70			0.00 m ²	= 0.00		
Heat Conduction	Opaque Wall	3.22 W/m ²				4.78 W/m ²				1.20 W/m ²				6.83 W/m ²			
	Window	0.56 W/m ²				0.33 W/m ²				1.08 W/m ²				0.00 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 checked="" type="checkbox"/> Tinted	Area= 26.30m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 26.86m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 51.69m ²	SC= 0.43	VLT= 50 % ER= 18 %	<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		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	
		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 Glazing		7.17 W/m ²				4.15 W/m ²				13.71 W/m ²				0.00 W/m ²			
Average Absorptivity		0.62				0.65				0.67				0.71			
RTTV _{Wall} at each facade		10.95 W/m ²				9.26 W/m ²				15.98 W/m ²				6.83 W/m ²			
Overall RTTV _{Wall}		9.81 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		73.77 m ²							
Total Skylight Area		N/A m ²							
Heat Conduction	Roof	3.71 W/m ²							
	Skylight	N/A 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		N/A W/m ²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 W/m ²							

Matters to Note

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Email: enquiry@bd.gov.hk

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAMI, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	3 Storeys (House 8)	

Table 1

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

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		60.87 m ²	Window to Wall Ratio			122.09 m ²	Window to Wall Ratio			73.92 m ²	Window to Wall Ratio			154.49 m ²	Window to Wall Ratio		
Total Window Factor		27.85 m ²	= 0.46			19.37 m ²	= 0.16			51.36 m ²	= 0.69			0.00 m ²	= 0.00		
Heat Conduction	Opaque Wall	2.36 W/m ²				2.56 W/m ²				1.18 W/m ²				9.18 W/m ²			
	Window	0.60 W/m ²				0.23 W/m ²				1.07 W/m ²				0.00 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 checked="" type="checkbox"/> Tinted	Area= 27.85m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 19.37 m ²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 51.36m ²	SC= 0.43	VLT= 50 % ER= 18 %	<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 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 checked="" type="checkbox"/> No		Overhang	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		Siddefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Siddefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Siddefin	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Siddefin	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Solar Radiation through Glazing		7.59 W/m ²				2.99 W/m ²				13.62 W/m ²				0.00 W/m ²			
Average Absorptivity		0.61				0.50				0.66				0.79			
RTTV _{Wall} at each facade		10.54 W/m ²				5.79 W/m ²				15.87 W/m ²				9.18 W/m ²			
Overall RTTV _{Wall}		9.58 W/m ²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		73.77 m ²							
Total Skylight Area		N/A m ²							
Heat Conduction	Roof	3.71 W/m ²							
	Skylight	N/A 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		N/A W/m ²						
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 W/m ²							

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Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAMI, N.T.		BD Ref. No. BD 2 / 9048 / 14
Building Type:	Residential	
RTTV calculated by	<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:	
No. of Storeys (Residential Units)	4 Storeys (House 9)	

Table 1

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

Table 2

RTTV _{Wall}																	
Facade Orientation Facing		North East				South East				South West				North West			
Wall Orientation Factor		0.924				1.051				1.092				0.965			
Total External Wall Area (Residential Units)		85.92 m²		Window to Wall Ratio = 0.18		110.95 m²		Window to Wall Ratio = 0.18		127.68 m²		Window to Wall Ratio = 0.60		137.77 m²		Window to Wall Ratio = 0.51	
Total Window Factor		15.20 m²				20.35 m²				76.00 m²				70.88 m²			
Heat Conduction	Opaque Wall	2.23 W/m²				2.57 W/m²				1.45 W/m²				1.38 W/m²			
	Window	0.23 W/m²				0.27 W/m²				0.92 W/m²				0.70 W/m²			
Window	Glass Type	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Reflective	Area= m²	SC=	VLT= % ER= %
		<input checked="" type="checkbox"/> Tinted	Area= 15.20m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 20.35m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 76.00m²	SC= 0.43	VLT= 50 % ER= 18 %	<input checked="" type="checkbox"/> Tinted	Area= 70.88m²	SC= 0.43	VLT= 50 % ER= 18 %
		<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	SC=	VLT= % ER= %	<input type="checkbox"/> Clear	Area= m²	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		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	
		Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Sidewall	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Solar Radiation through Glazing		2.93 W/m²				3.46 W/m²				11.67 W/m²				8.91 W/m²			
Average Absorptivity		0.51				0.50				0.59				0.57			
RTTV _{Wall} at each facade		5.40 W/m²				6.30 W/m²				14.03 W/m²				10.99 W/m²			
Overall RTTV _{Wall}		9.67 W/m²															

Table 3

RTTV _{Roof}									
Roof Orientation Factor		2.16							
Total Roof Area (Residential Units)		78.33 m ²							
Total Skylight Area		N/A m ²							
Heat Conduction	Roof	3.71 W/m ²							
	Skylight	N/A 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		N/A W/m ²							
Average Absorptivity (roof)		0.9							
Overall RTTV _{Roof}		3.71 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

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- (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

3. 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.

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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:

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

General Enquiry and Receipt Counter, G/F, Buildings Department Headquarters, North Tower, West Kowloon Government Offices, 11 Hoi Ting Road, Yau Ma Tei, Kowloon.

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

OTTV of Resident's Recreational Facilities Summary Sheet

Address: PROPOSED HOUSE DEVELOPMENT AT TUEN MUN TOWN LOT NO.490 TAI LAMI, N.T.						BD Ref. No. BD 2 / 9048 / 14		
Building Type / Use :		Resident's Recreational Facilities						
OTTV calculated by		<input checked="" type="checkbox"/> 1. Registered Professional Engineers <input type="checkbox"/> 2. Architect <input type="checkbox"/> 3. Others, please specify:						
Classification		<input checked="" type="checkbox"/> Podium / <input type="checkbox"/> Tower						
No. of Storeys (RRF)		1 Storey						
Gross Floor Area		132.977 m ²						
Usable Floor Area		58.75 m ²						
Total External Wall Area (including windows)		58.83 m ²		Window to Wall Ratio				
Total Window Area		17.83 m ²		=		0.30		
Total Skylight Area		N/A m ²						
**Weighted Average U-value	Opaque Wall	1.75 W/m ²						
	Window	2.20 W/m ²						
	Opaque Roof	0.40 W/m ²						
	Skylight	N/A W/m ²						
Window	Glass Type	<input type="checkbox"/> Reflective	Area=	m ²	SC=	VLT=	% ER= %	
		<input checked="" type="checkbox"/> Tinted	Area= 17.83	m ²	SC= 0.43	VLT= 50	% ER= 18	%
		<input type="checkbox"/> Clear	Area=	m ²	SC=	VLT=	% ER=	%
	Double Glazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	External Shading	Overhang <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
		Sidefin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
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						
		<input type="checkbox"/> Yes <input type="checkbox"/> No						
**Weighted Average Absorptivity	Wall	0.48						
	Roof	0.25						
**Weighted Average Density	Wall	1200.29 kg/m ²						
	Roof	1120 kg/m ²						
OTTV _{RRF}	Wall	17.91 W/m ²						
	Roof	1.17 W/m ²						
	Overall Average	10.48 W/m ²						

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

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