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住戶康樂設施總熱傳送值的摘要匯表

OTTV of Resident's Recreational Facilities

電郵地址
E-mail Address

ⓘ 作認收電郵之用 (電子呈交適用)
For acknowledgement email (e-submission)

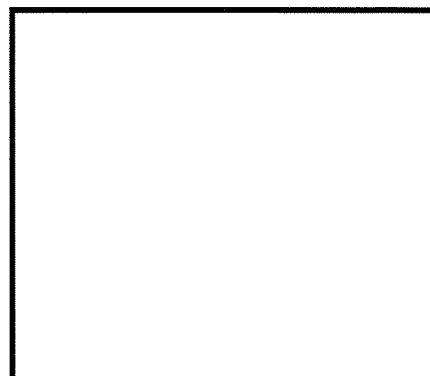
PNAP
APP-156
附錄 **B**
Appendix

地址 : Address: 270-286 TUNG CHAU STREET & 1-5KWEILIN STREET, SSP, KOWLOON		屋宇署編號 BD Ref. No. 2/4035/18	
建築物類型/用途 : Building Type / Use :	住戶康樂設施 Resident's Recreational Facilities		
總熱傳送值計算者 OTTV calculated by	<input checked="" type="checkbox"/> 1. 註冊專業工程師 1. Registered Professional Engineers <input type="checkbox"/> 2. 建築師 2. Architect <input type="checkbox"/> 3. 其他·請註明: 3. Others, please specify:		
分類 Classification	<input type="checkbox"/> 平台 Podium / <input checked="" type="checkbox"/> 樓塔 Tower		
層數 (住戶康樂設施) No. of Storeys (RRF)	1		
總樓面面積 Gross Floor Area	206.976	平方米 m ²	
實用樓面面積 Usable Floor Area	89.415	平方米 m ²	
外牆總面積 (包括窗戶) Total External Wall Area (including windows)	512.48	平方米 m ²	窗戶與牆壁的比例 Window to Wall Ratio = 3727:12812
窗戶總面積 Total Window Area	149.08	平方米 m ²	
天窗總面積 Total Skylight Area	0	平方米 m ²	
**加權平均U值 **Weighted Average U-value	不透光牆 Opaque Wall	2.059	瓦特/平方米 W/m ²
	窗戶 Window	1.54	瓦特/平方米 W/m ²
	不透光屋頂 Opaque Roof	0.61	瓦特/平方米 W/m ²
	天窗 Skylight	0	瓦特/平方米 W/m ²
窗戶 Window	玻璃類型 Glass Type	<input type="checkbox"/> 反射性 Reflective 面積 Area= 平方米 m ² SC= VLT= % ER= %	
		<input type="checkbox"/> 有色 Tinted 面積 Area= 平方米 m ² SC= VLT= % ER= %	
		<input checked="" type="checkbox"/> 透明 Clear 面積 Area= 2 平方米 m ² SC= 0 VLT= 50 % ER= 19 %	
	雙層玻璃 Double Glazing	<input checked="" type="checkbox"/> 有 Yes <input type="checkbox"/> 無 No	
	外遮光物 External Shading	外懸伸建物 Overhang	<input type="checkbox"/> 有 Yes <input checked="" type="checkbox"/> 無 No
側簷伸建物 Soffit		<input type="checkbox"/> 有 Yes <input checked="" type="checkbox"/> 無 No	
天窗 Skylight	玻璃類型 Glass Type	<input type="checkbox"/> 反射性 Reflective 面積 Area= 平方米 m ² SC= VLT= % ER= %	
		<input type="checkbox"/> 有色 Tinted 面積 Area= 平方米 m ² SC= VLT= % ER= %	
		<input type="checkbox"/> 透明 Clear 面積 Area= 平方米 m ² SC= VLT= % ER= %	
	雙層玻璃 Double Glazing	<input type="checkbox"/> 有 Yes <input type="checkbox"/> 無 No	
	外遮光物 External Shading	<input type="checkbox"/> 有 Yes <input type="checkbox"/> 無 No	
<input type="checkbox"/> 有 Yes <input type="checkbox"/> 無 No			
**加權平均吸熱率值 **Weighted Average Absorptivity	牆壁 Wall	0.9	
	屋頂 Roof	0.65	
**加權平均密度值 **Weighted Average Density	牆壁 Wall	451.85	公斤/平方米 kg/m ²
	屋頂 Roof	439	公斤/平方米 kg/m ²
住戶康樂設施 總熱傳送值 OTTV _{RRF}	牆壁 Wall	17.39	瓦特/平方米 W/m ²
	屋頂 Roof	1.3	瓦特/平方米 W/m ²
	總平均數 Overall Average	11.28	瓦特/平方米 W/m ²

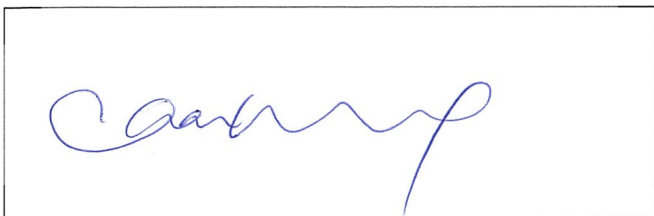
註:
ER = 外部反射率
SC = 遮光係數
VLT = 可見光透光率
**按面積加權計算
應以發展項目中使用比例最高的窗戶和天窗的資料為準。

請在適當的方格內填上「✓」號。
Please tick in box as appropriate.

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.



簽署*
Signature*

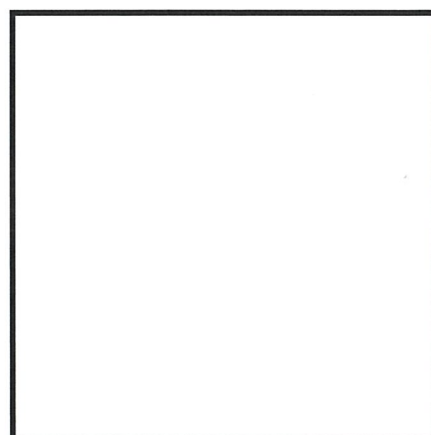


任何失實核證或聲明可引致法律行動。##
Any false certification or declaration
may be subject to legal action.##

日期 Date

0	4	0	1	2	0	2	3
---	---	---	---	---	---	---	---

日 dd 月 mm 年 yyyy



注意事項

任何人如作出虛假聲明或就重要事項作出失實陳述即屬觸犯刑事罪行，可能會被檢控。

甲. 填寫

1. 請填妥表格載列所有有關的部分。請附上所有證明文件。
2. 所提供的資料如有不全或錯誤，屋宇署將不能處理呈交的文件。
3. 如對本表格有任何疑問，請與屋宇署聯絡。

乙. 呈交方法

1. 郵寄/親身呈交 - 本表格連同有關文件應郵寄或親身呈交至屋宇署：

呈交有關勸諭信 / 命令 / 通知 / 指示的表格：

九龍油麻地海庭道11號西九龍政府合署北座屋宇署總部地下一般查詢及收件處

呈交至拓展部有關其他事宜的表格：

香港太古城太古灣道14號7樓屋宇署收發處。

丙. 聯絡資料

屋宇署

地址：九龍油麻地海庭道11號西九龍政府合署北座屋宇署總部

電話：2626 1616 (由“1823”接聽)

傳真：2537 4992

電郵：enquiry@bd.gov.hk

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. 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.
3. Enquiries regarding this form should be addressed to the Buildings Department.

B. 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

C. 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

Building (Energy Efficiency) Regulation Form OTTV1
 Calculation of 'U' Value of Composite Wall
 and Details of Other Values

Sheet No.A 1 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data of Opaque Wall
 Facade Orientation Facing SE Solar Factor (SF) is 197

Wall Code No.		SE1			
Location of Wall		6/F Wall			
External Finish Material		5mm mosaic tiles			
Conductivity	W/m°C	1.5			
Density	kg/m3	2500			
Thickness	m	0.005			
Absorptivity	a	0.9			
Intermediate Component		30mm cement/sand render			
Conductivity	W/m°C	0.72			
Density	kg/m3	1860			
Thickness	m	0.03			
Intermediate Component		150mm concrete wall			
Conductivity	W/m°C	2.16			
Density	kg/m3	2400			
Thickness	m	0.15			
Intermediate Component					
Conductivity	W/m°C				
Density	kg/m3				
Thickness	m				
Internal Finish Material		15mm gypsum plaster			
Conductivity	W/m°C	0.53			
Density	kg/m3	1570			
Thickness	m	0.015			
Absorptivity	a	0.3			
'U' Value of Composite Wall	W/m2°C	2.06			
Area of Wall	m2	49.54			
Density of Composite Wall	kg/m2	451.85			
Equivalent Temperature Difference for wall	TDEQ	2.71			

Building (Energy Efficiency) Regulation Form OTTV2
 Window / Rooflight Schedule

Sheet No.B 1 BD Ref: 2/4035/18

Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data on window/rooflight

Facade Orientation Facing SE Solar Factor (SF) is 197

Window Code No.	SEW1			
Location of Window	6/F Window			
Glazing Type	G10			
Thickness	m	0.010		
Shading Coefficient (SC)		0.26		
Type of Shading Device				
External Shading Multiplier (ESM)		1.000		
Area of Glazing	m2	16.2		

Physical Data on window/rooflight

Facade Orientation Facing _____ Solar Factor (SF) is _____

Window Code No.				
Location of Window				
Glazing Type				
Thickness	m			
Shading Coefficient (SC)				
Type of Shading Device				
External Shading Multiplier (ESM)				
Area of Glazing	m2			

Building (Energy Efficiency) Regulation Form OTTV1
 Calculation of 'U' Value of Composite Wall
 and Details of Other Values

Sheet No.A 2 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data of Opaque Wall
 Facade Orientation Facing NW Solar Factor (SF) is 138

Wall Code No.		NW1		
Location of Wall		6/F Wall		
External Finish Material		5mm mosaic tiles		
Conductivity	W/m ² C	1.5		
Density	kg/m ³	2500		
Thickness	m	0.005		
Absorptivity	a	0.9		
Intermediate Component		30mm cement/sand render		
Conductivity	W/m ² C	0.72		
Density	kg/m ³	1860		
Thickness	m	0.03		
Intermediate Component		150mm concrete wall		
Conductivity	W/m ² C	2.16		
Density	kg/m ³	2400		
Thickness	m	0.15		
Intermediate Component				
Conductivity	W/m ² C			
Density	kg/m ³			
Thickness	m			
Internal Finish Material		15mm gypsum plaster		
Conductivity	W/m ² C	0.53		
Density	kg/m ³	1570		
Thickness	m	0.015		
Absorptivity	a	0.3		
'U' Value of Composite Wall	W/m ² C	2.06		
Area of Wall	m ²	59.29		
Density of Composite Wall	kg/m ²	451.85		
Equivalent Temperature Difference for wall	TDEQ	2.45		

Building (Energy Efficiency) Regulation Form OTTV2
Window / Rooflight Schedule

Sheet No.B 2 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5
Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data on window/rooflight
 Facade Orientation Facing NW Solar Factor (SF) is 138

Window Code No.		NWW1		
Location of Window		6/F Window		
Glazing Type		G10		
Thickness	m	0.010		
Shading Coefficient (SC)		0.26		
Type of Shading Device				
External Shading Multiplier (ESM)		1.000		
Area of Glazing	m2	25.68		

Physical Data on window/rooflight
 Facade Orientation Facing _____ Solar Factor (SF) is _____

Window Code No.				
Location of Window				
Glazing Type				
Thickness	m			
Shading Coefficient (SC)				
Type of Shading Device				
External Shading Multiplier (ESM)				
Area of Glazing	m2			

Building (Energy Efficiency) Regulation Form OTTV1
 Calculation of 'U' Value of Composite Wall
 and Details of Other Values

Sheet No.A 3 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5
Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559
 Physical Data of Opaque Wall
 Facade Orientation Facing NE Solar Factor (SF) is 138

Wall Code No.		NE1		
Location of Wall		6/F Wall		
External Finish Material		5mm Concrete tiles		
Conductivity	W/m°C	1.5		
Density	kg/m3	2500		
Thickness	m	0.005		
Absorptivity	a	0.9		
Intermediate Component		30mm cement/sand render		
Conductivity	W/m°C	0.72		
Density	kg/m3	1860		
Thickness	m	0.03		
Intermediate Component		150mm concrete wall		
Conductivity	W/m°C	2.16		
Density	kg/m3	2400		
Thickness	m	0.15		
Intermediate Component				
Conductivity	W/m°C			
Density	kg/m3			
Thickness	m			
Internal Finish Material		15mm gypsum plaster		
Conductivity	W/m°C	0.53		
Density	kg/m3	1570		
Thickness	m	0.015		
Absorptivity	a	0.3		
'U' Value of Composite Wall	W/m2°C	2.06		
Area of Wall	m2	168.42		
Density of Composite Wall	kg/m2	451.85		
Equivalent Temperature Difference for wall	TDEQ	2.67		

Building (Energy Efficiency) Regulation Form OTTV2
 Window / Rooflight Schedule

Sheet No.B 3 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data on window/rooflight
 Facade Orientation Facing NE Solar Factor (SF) is 138

Window Code No.		NEW1		
Location of Window		6/F Window		
Glazing Type		G10		
Thickness	m	0.010		
Shading Coefficient (SC)		0.26		
Type of Shading Device				
External Shading Multiplier (ESM)		1.000		
Area of Glazing	m2	14.19		

Physical Data on window/rooflight
 Facade Orientation Facing _____ Solar Factor (SF) is _____

Window Code No.				
Location of Window				
Glazing Type				
Thickness	m			
Shading Coefficient (SC)				
Type of Shading Device				
External Shading Multiplier (ESM)				
Area of Glazing	m2			

Building (Energy Efficiency) Regulation Form OTTV1
 Calculation of 'U' Value of Composite Wall
 and Details of Other Values

Sheet No.A 4 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5
Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559
 Physical Data of Opaque Wall
 Facade Orientation Facing SW Solar Factor (SF) is 202

Wall Code No.		SW1		
Location of Wall		6/F Wall		
External Finish Material		5mm mosaic tiles		
Conductivity	W/m°C	1.5		
Density	kg/m3	2500		
Thickness	m	0.005		
Absorptivity	a	0.9		
Intermediate Component		30mm cement/sand		
Conductivity	W/m°C	0.72		
Density	kg/m3	1860		
Thickness	m	0.03		
Intermediate Component		150mm concrete wall		
Conductivity	W/m°C	2.16		
Density	kg/m3	2400		
Thickness	m	0.15		
Intermediate Component				
Conductivity	W/m°C			
Density	kg/m3			
Thickness	m			
Internal Finish Material		15mm gypsum plaster		
Conductivity	W/m°C	0.53		
Density	kg/m3	1570		
Thickness	m	0.015		
Absorptivity	a	0.3		
'U' Value of Composite Wall	W/m2°C	2.06		
Area of Wall	m2	86.15		
Density of Composite Wall	kg/m2	451.85		
Equivalent Temperature Difference for wall	TDEQ	2.59		

Building (Energy Efficiency) Regulation Form OTTV2
Window / Rooflight Schedule

Sheet No.B 4 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data on window/rooflight
 Facade Orientation Facing SW Solar Factor (SF) is 202

Window Code No.		SWW1		
Location of Window		6/F Window		
Glazing Type		G10		
Thickness	m	0.010		
Shading Coefficient (SC)		0.26		
Type of Shading Device				
External Shading Multiplier (ESM)		1.000		
Area of Glazing	m2	93.01		

Physical Data on window/rooflight
 Facade Orientation Facing _____ Solar Factor (SF) is _____

Window Code No.				
Location of Window				
Glazing Type				
Thickness	m			
Shading Coefficient (SC)				
Type of Shading Device				
External Shading Multiplier (ESM)				
Area of Glazing	m2			

Building (Energy Efficiency) Regulation Form OTTV1
 Calculation of 'U' Value of Composite Wall
 and Details of Other Values

Sheet No.A 5 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5
Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data of Opaque Wall
 Facade Orientation Facing Horizontal Solar Factor (SF) is 264

Wall Code No.		R1		
Location of Wall		Club House Flat Roof		
External Finish Material		15mm Concrete tiles		
Conductivity	W/m°C	1.1		
Density	kg/m3	2100		
Thickness	m	0.015		
Absorptivity	a	0.65		
Intermediate Component		Expanded Polystyrene		
Conductivity	W/m°C	0.034		
Density	kg/m3	25		
Thickness	m	0.04		
Intermediate Component		C/S Screeding		
Conductivity	W/m°C	0.72		
Density	kg/m3	1860		
Thickness	m	0.015		
Intermediate Component		R. Concrete		
Conductivity	W/m°C	2.16		
Density	kg/m3	2400		
Thickness	m	0.150		
Internal Finish Material		Internal Emulsion Paint on C/S Plaster		
Conductivity	W/m°C	0.72		
Density	kg/m3	1860		
Thickness	m	0.010		
Absorptivity	a	0.65		
'U' Value of Composite Wall	W/m2°C	0.61		
Area of Wall	m2	313.38		
Density of Composite Wall	kg/m2	439.00		
Equivalent Temperature Difference for wall	TDEQ	3.28		

Building (Energy Efficiency) Regulation Form OTTV2
 Window / Rooflight Schedule

Sheet No.B 5 BD Ref: 2/4035/18
 Building Address Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street, Sham Shui Po, Kowloon N.K.I.L.6559

Physical Data on window/rooflight
 Facade Orientation Facing Horizontal Solar Factor (SF) is 264

Window Code No.			
Location of Window			
Glazing Type			
Thickness	m		
Shading Coefficient (SC)			
Type of Shading Device			
External Shading Multiplier (ESM)			
Area of Glazing	m2		

Physical Data on window/rooflight
 Facade Orientation Facing _____ Solar Factor (SF) is _____

Window Code No.			
Location of Window			
Glazing Type			
Thickness	m		
Shading Coefficient (SC)			
Type of Shading Device			
External Shading Multiplier (ESM)			
Area of Glazing	m2		

Building (Energy Efficiency) Regulation Form OTTV4
Summary of OTTV of Building Envelope

Sheet No.D

6

BD Ref: 2/4035/18

Proposed Residential & Commercial Development at 270-286 Tung Chau Street & 1-5 Kweilin Street,

Building Address Sham Shui Po, Kowloon N.K.I.L.6559

Total Envelope Heat Gain

Facade Orientation	Gross Area from Form OTTV 3	Gross Heat Gain from Form OTTV 3
SE	65.74 m ²	1,078.51 W
NW	84.97 m ²	1,190.54 W
NE	182.61 m ²	1,342.32 W
SW	179.16 m ²	5,298.30 W
Subtotal	512.48 m ²	8,909.67 W
Roof		
Flat Roof	313.38 m ²	408.07 W
Subtotal	313.38 m ²	408.07 W

Walls OTTV = 17.39 W/m²

Roofs OTTV = 1.30 W/m²

Building OTTV = 11.28 W/m² (Requirement for building Tower: <21 W/m², so **Complied**)