


## The Link 345 Ciputra

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**New Construction**



**Primary energy need :**  
kWhpe/m<sup>2</sup>.year  
(Calculation method : )

**ENERGY CONSUMPTION**

*Economical building* *Building*

< 50	<b>A</b>
51 à 90	<b>B</b>
91 à 150	<b>C</b>
151 à 230	<b>D</b>
231 à 330	<b>E</b>
331 à 450	<b>F</b>
> 450	<b>G</b>

*Energy-intensive building*

**Building Type** : Collective housing > 50m  
**Construction Year** : 2012  
**Delivery year** : 2018  
**Address 1 - street** : Khu 76 th? Ciputra 100000 ?6NG NG?C, B?C T? LIÊM, HANOI, Other countries  
**Climate zone** : [Cwa] Mild, dry winter, hot and wet summer.

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**Net Floor Area** : 58 654 m<sup>2</sup>  
**Construction/refurbishment cost** : 79 800 €  
**Number of Dwelling** : 594 Dwelling  
**Cost/m2** : 1.36 €/m<sup>2</sup>

**Certifications :**



**Proposed by :**



### General information

Developed by Ciputra Westlake City Development Co. Ltd., The Link 345 Ciputra consists of three modern, 21-story residential complexes of nearly 600 two and three-bedroom units located in Hanoi. The residential towers offer a balanced combination of contemporary architectural style and energy-conscious design in order to improve the quality of life for its residents while reducing environmental impacts.

Residents enjoy a favorable location close to commercial centers and the diplomatic precinct northwest of Hanoi on the West Lake, with easy access to Noi Bai International Airport. Homeowners benefit from lower utility bills as smaller windows with shading, reflective paint and insulation help to keep the units cool without the need for air conditioning. The project is a result of a joint venture between Vietnam's Urban Development and Infrastructure Investment Corporation and Indonesia's Ciputra Group.

The Link 345 Ciputra has received final EDGE certification from SGS Vietnam.

## See more details about this project

<https://www.edgebuildings.com/projects/ciputra/>

## Photo credit

Courtesy of Ciputra

## Stakeholders

### Construction Manager

**Name :** Ciputra Westlake City Development Co. Ltd

**Contact :** sasee.sinniah@ciputra.com

<http://ciputrahanoi.com.vn/en/introduce/ciputra-hanoi/>

### Stakeholders

**Function :** Construction Manager

UDIC Hanoi

The Link is developed by Ciputra Group (Indonesia) and UDIC Hanoi

## Energy

### Energy consumption

**Breakdown for energy consumption :** 18 kWh/m<sup>2</sup>/year : home appliances

3 kWh/m<sup>2</sup>/year : Lighting

18 kWh/m<sup>2</sup>/year : hot water

**Initial consumption :** 55,00 kWhpe/m<sup>2</sup>.year

### Envelope performance

**More information :**

Roof U - Value : 1.7 W/m<sup>2</sup> K

Wall U - Value : 1.8 W/m<sup>2</sup> K

Glass U - Value : 5.4 W/m<sup>2</sup> K

### More information

The study is about the building: Ciputra 3 Bedrooms\_2.0.9

### Real final energy consumption

**Final Energy :** 49,80 kWhfe/m<sup>2</sup>.year

## Renewables & systems

### Systems

**Heating system :**

- No heating system

**Hot water system :**

- Individual electric boiler

**Cooling system :**

- No cooling system

#### Ventilation system :

- Natural ventilation

#### Renewable systems :

- No renewable energy systems

## Products

### Product

Reduced Window to Wall Ratio - WWR of 22.14%

Reflective Paint for External Walls -Solar Reflectivity (albedo) of 80

External Shading Devices - Annual Average Shading Factor (AASF) of 0.33

Energy-Saving Light Bulbs - Common Areas and External Spaces

**Product category :** Table 'c21\_germany.innov\_category' doesn't exist SELECT one.innov\_category AS current,two.innov\_category AS parentFROM innov\_category AS oneINNER JOIN innov\_category AS two ON one.parent\_id = two.idWHERE one.state=1AND one.id = '14'

Low-Flow Showerheads - 5.73 L/min

Low-Flow Faucets for Washbasins - 4.35 L/min

Dual Flush for Water Closets - 2.6 L/first flush and 4 L/second flush

**Product category :** Table 'c21\_germany.innov\_category' doesn't exist SELECT one.innov\_category AS current,two.innov\_category AS parentFROM innov\_category AS oneINNER JOIN innov\_category AS two ON one.parent\_id = two.idWHERE one.state=1AND one.id = '9'

Insulation of Roof - U Value of 0.07

Insulation of External Walls - U Value of 2.03

Internal Walls: Medium Weight Hollow Concrete Blocks

Roof Insulation: Polystyrene

## Costs

### Construction and exploitation costs

Total cost of the building : 79 800 €

### Energy bill

Forecasted energy bill/year : 51 740,00 €

Real energy cost/m<sup>2</sup> : 0.88

Real energy cost/Dwelling : 87.1

## Health and comfort

### Water management

Consumption from water network : 20 347,00 m<sup>3</sup>

Water Consumption/m<sup>2</sup> : 0.35

Water Consumption/Dwelling : 34.25

Final Water Use: 14.37 kL/Month/Unit

Water Savings: 17637.17 m<sup>3</sup>/Year

43 kL/unit/year: shower

49 kL/unit/year: kitchen

14 kL/unit/year: water faucets

15 kL/unit/year: water closets

51 kL/unit/year: washing and cleaning

### Comfort

**Health & comfort :** Everything you need for your quality lifestyle is at your doorstep... Leisure, hospitality, at the highest level of comfort, safety and security. Premier lifestyle awaits you at The Link this is the place to be.

Life at the Link Ciputra is all about quality and convenience. Designed meticulously by our project designers with the needs of the residents in mind, the facilities at

The Link define good quality living for the whole family. The children could enjoy children playground or children's pools. The swimming pool, fitness center, tennis courts are the perfect solutions or distressing and rejuvenate one's mind and body, or just relaxing and indulge in the facilities. The visually beautiful landscaping and gardens surrounding The Link will awaken your senses.

Privacy is utmost importance at the The Link. A team of responsible estate management personnel for out resident's safety and privacy, 24 hours reception and security service some of the estate management services. There are also ample secure underground parking spaces. In addition, design considerations has been made for all the facilities contained in the towers to accent your premium apartment ideal for relaxing with family, entertaining friends or just enjoy living as its good nature.

## Carbon

### GHG emissions

GHG in use : 21,00 KgCO<sub>2</sub>/m<sup>2</sup>/year

CO2 Emissions g/kWh of Electricity: 428.6 g/kWh

## Contest

### Reasons for participating in the competition(s)

**Energy** (21% energy savings) : Reduced window to wall ratio, reflective paint for external walls, external shading devices, insulation of roof and external walls; and energy-saving lighting for external spaces.

**Water** (22 % water savings) : Low-flow showerheads and faucets and dual flush water closets.

**Materials** (24 % less embodied energy in materials) : Controlled use of concrete for roof construction and medium weight hollow concrete blocks for internal walls.

### Building candidate in the category



Energy & Hot Climates

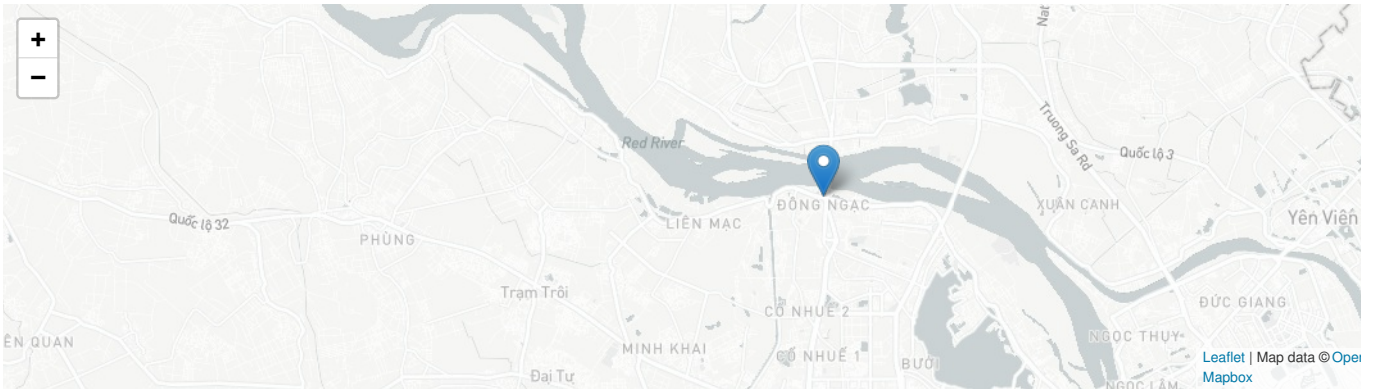


Low Carbon





Users' Choice



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