

聯合建築師事務所 聯合建築師事務所

## Delpin House, Miramar, Puerto Rico

形面與環境的呼應

FUSTER + Partners, PSC

建築師 -- Nataniel Fuster / FUSTER + Partners - Architects, PSC

協理建築師 -- Nataniel Fuster -

George S. Stewart - Angel Y. Rodriguez -

Hansel Bajuelo

建築師 -- Luis Daza

設計團隊 -- Julio Vega and Marcelino Mujica

設計地點 -- 波多黎各

業主 -- Carlos Delpin

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建築面積 -- 1F -- 265 m<sup>2</sup> · 2F -- 94 m<sup>2</sup>

建築面積 -- 359 m<sup>2</sup>

建築面積 -- 371 m<sup>2</sup>

建築材料 -- 鋼筋混凝土 · 玻璃纖維增強塑料 (GRC) · 鍍鋅鋼板 · 石灰石 · 瓷 · 鋁

建築材料 -- 鋼筋混凝土

建築地點 -- Miramar, Puerto Rico

建築面積 -- 約 940 平方公尺

建築師 -- Nataniel Fuster

建築師 -- 聯合建築師事務所

建築師 -- 聯合建築師事務所

Architects -- Nataniel Fuster / FUSTER + Partners - Architects, PSC

Collaborator -- Nataniel Fuster - George S. Stewart -

Angel Y. Rodriguez - Hansel Bajuelo

Structural Engineering -- Luis Daza

Contractor -- Julio Vega and Marcelino Mujica

Character of Space -- House

Client -- Carlos Delpin

Occupation of the Client -- Businessman

Age of the Client -- 38 Years Old

Each Floor Area -- 1F -- 265 m<sup>2</sup> · 2F -- 94 m<sup>2</sup>

Total Floor Area -- 359 m<sup>2</sup>

Site Area -- 371 m<sup>2</sup>

Principal Materials -- Reinforced Concrete · Glass

Fiber Reinforced Concrete (GRC) · Galvanized

Steel · Travertine Stone · Aluminum and Glass

Principal Structure -- Reinforced Concrete

Location -- Miramar, Puerto Rico

Cost -- \$400,000.00

Photos -- Nataniel Fuster

Interview -- Rowena Liu

Collator -- Ichun Tsai

「德爾濱屋舍」(西文為 Casa Delpin) 是整修後的建築，也屬於一小棟富有都市獨戶住宅的聯建物。原先的建物是聖胡安市 (San Juan) 典型的獨戶住宅，內部黑暗炎熱，空間彼此隔離，室內外根本無法相連。

設計目標是要營造寬廣的起居空間，並且提供更多的被動照明與冷氣空調，必要時還可做動機械式冷氣空調。建築師透過各種施工技術之後，終於達成這項目標。穿孔的玻璃纖維混凝土 (GRC) 面板仿效房舍原有的水工混凝土鋪地磚，將外部的公共露台與面向內部的間隙空間界定出來並重新定位。零碎的室外空間納為起居空間之後，圍合不讓向外展開 (水平面與垂直面)，同時保有更多的私密感。新的建材與表面塗漆也試圖與原有材質進行對話，時而透過對比，時而藉由對等，以此來展現獨特的自我情感。

本棟建物的主要特色就是自然光線。陽光穿透深長的圓錐形天窗與玻璃纖維混凝土「紗窗」之後充盈於整個屋舍，同時映照在暴露的建材與游泳池面。游泳池在時空上呈現出超凡的品質，讓緊鄰於兩旁的餐廳與客廳成為絕佳的注目焦點。

Casa Delpin is the product of the renovation and addition to an existing single-family structure located on a small urban lot. The existing structure was typical of many single-family houses in San Juan with dark, hot, segregated interior spaces that negated any relationship between the interior and the exterior.

The design objective was to create a spatially rich living experience and provide for a greater capacity for passive lighting and cooling, while also allowing for the use of mechanical cooling when needed. This is achieved through a variety of construction techniques. The perforated glass reinforced concrete (GRC) panels (that mimic the design of the hydraulic concrete floor tiles designed for this house) help to redefine and reorient exterior public patios and interstitial spaces towards its interior. This strategy of absorbing the remnant exterior areas of the lot into the family's living spaces allows the house to open up (both horizontally as well as vertically) while, at the same time, providing greater privacy. Additionally, the new materials and finishes attempt to dialogue with the existing ones while gaining their own expressive independence, at times through contrast and but also through parity as well.

The main character of the addition is natural light, which penetrates and diffuses throughout the house through deep conical skylights and GRC "screens" to reflect on the exposed materials and watery surface of the pool. The spatially and temporally dramatic quality of the pool brings climatic focus to both the dining and living rooms that border it on two sides.

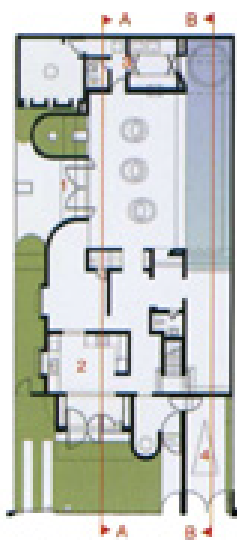


右頁：透過穿孔玻璃纖維水泥（GRC）建材的應用，屋舍  
水平面與垂直面一併向外展開，同時保有更多私密感  
左頁：圓錐形天窗吸納陽光，充盈於整個屋舍

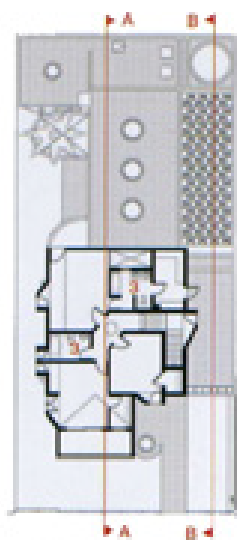
scope







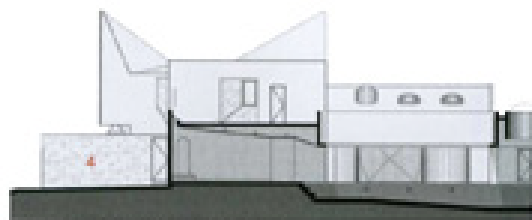
一樓平面圖  
FIRST FLOOR PLAN



二樓平面圖  
SECOND FLOOR PLAN



剖立面圖 A-A SECTION A-A



剖立面圖 B-B SECTION B-B

1. 入口 2. 廚房 3. 衛浴 4. 車庫  
1. entrance 2. kitchen 3. bathroom 4. garage

右頁：穿孔玻璃纖維混凝土（GRC）重新定位外部露台與面向內部的關係空間，聯通室內外  
左頁：新的建材與現有材質時間對比、時間對等，試圖進行對話





右頁：本樓體物的主要特色為自然光線，映照在泳池上更顯示出超凡的品質  
左圖：穿孔玻璃纖維水泥（GRC）的設施會原有的水工界界土磚結構

