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Urban House with Big Window

Original

Urban House with Big Window / Armando, Alessandro; Di Robilant, Manfredo. - In: ARCHITECTURAL RECORD. - ISSN 0003-858X. - ELETTRONICO. - :march 2014(2014).

Availability:

This version is available at: 11583/2667607 since: 2017-03-23T15:12:02Z

Publisher:

BNP media

Published

DOI:

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Urban House with Big Window



Urban House with Big Window
Alessandro Armando ' Manfredo di Robilant
Cambridge, MA
Photo © Paolo Rosselli



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March 16, 2014
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Alessandro Armando and Manfredo di Robilant Cambridge, Massachusetts

Site size: 6,000 square feet
Project size: 5,393 square feet
Program:
A family living in Cambridge, Massachusetts asked Turin-based architects Alessandro Armando and Manfredo di Robilant to overhaul their gabled, 19th-century house. In addition to improved insulation, the clients wanted privacy, but also views to the street.
Location:
The site occupies a dense residential block located between Harvard and MIT campuses.
Solution:
For the renovation, the architects maintained the spirit of the old, three-story house on the interior leaving the original beams exposed, while adding a sleek, contemporary exterior. An entrance on the east facade opens into the kitchen and dining areas on the right, and a living room on the left. On the northeast corner of the living room, the architects added floor-to-ceiling mahogany-framed windows and floor-to-ceiling bookshelves. A staircase leads to the second and third floors, which contain bedrooms, a studio, and a playroom. Most notably, the architect reconciled the client's need for both privacy and openness by creating sliding aluminum panels that can slide to cover the large glazed portions of the exterior.
Construction Methods:
The architect reinforced the original timber structure, added insulation to the existing walls, and then covered them with a skin of translucent plastic panels. This layer promotes airflow in-between the skin and the timber walls in the summer, while keeping the house warm in the winter.

People	Products
Architect: Alessandro Armando - Manfredo di Robilant, Via Delle Rosine 10 10123 Turin, Italy +39 (0)11 0376131 Architect of record: Samir Srouji Interior designer: Manfredo di Robilant + Samir Srouji Engineers: Sami Kassis, structural Consultant(s): <i>Landscape:</i> Adrian Fehrmann General contractor: Bertram Corporation 300 Industrial Drive Random Lake, WI 53001 1-920-946-0254 Window timber frame: Bigelow Carpentry 97 Mill Street Franklin, MA 02058 1- 508-520-7245 Landscaping: Martin Lucyk Landscape Construction Inc. 19 Demars Street Maynard, MA 01754 617.610.6898 Photographer(s): Paolo Rosselli Photographer - www.paolorosselli.com	Structural system Timber, only the sliding shutters of the big window have a concrete base. Exterior cladding <i>Other cladding unique to this project:</i> Inner Layer: THERMAX Sheathing Exterior Layer: Transparent Plastic Panels Rodeca: PC 2540-7, with UV protection on the exterior face. Rodeca GmbH Freiherr Vom Stein Stra'e, 165 D-45473 M'lheim / Ruhr Roofing <i>Metal:</i> Metal panels, painted light grey, fixed above a layer of rigid insulating Armstrong panels Windows <i>Wood frame:</i> Big Window: custom made mahogany wood; other windows plastic Armstrong profiles with embedded insulation. The two sliding shutters are aluminum, custom made by Bertram Corp. Doors <i>Entrances:</i> Home Depot, painted silver. <i>Wood doors:</i> Home Depot, painted white Other unique products that contribute to sustainability: A thick layer of rigid insulating panels, separated by an in-between air chamber from the (also insulating) Rodeca panels, ensure a high level of insulation in both winter and summer. The roof, painted with very light grey, reduces the need for summer AC.

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