

EDITION 2022 WARSAW

PARTNERS



The Mirror



Team 47



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TEACHER



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1. Academic background:

- March 2016: Doctorate in Urban Planning, Urban Governance & Territories at the National Institute for Regional Planning (INAU).
- 2007:
 - Architect, graduated from the National School of Architecture in Rabat June 2007.
 - 1st year of the Master in Urbanism at the Paris Institute of Urbanism, University of Paris 12 Val de Marne Paris.
- 2006:
 - Equivalence of the master's degree in architecture from the University of Paris 12 Val de Marne Paris (France).

2. Career path:

- January 2020: In charge of educational affairs at the National School of Architecture of Fez;
- June 2017: Assistant Professor at the National School of Architecture of Fez;
- 2013 / 2017: Project Manager at the Agency for the Development and Rehabilitation of the City of Fez (ADER-Fez);
- 2010 / 2013: Craftsmanship-Fez Medina Project Management Unit. Crafts-Fez Medina Ministry of the Interior, as part of the Millennium Challenge Corporation (MCC) Program
- 2007 / 2010: Compagnie Générale Immobilière (C.G.I.) CDG Group.

The Mirror

At the center of Warsaw, and as a conceptual response to the need for a building that extends out into the community, integrating users of all ages and backgrounds, THE MIRROR is a project that represents the connection between the building and its context. The lines that structure the global conception of the volumes emerges from the form of the site and its environment, the goal is to connect the project to the roundabout, the train station, the park and the university. While the existing old factory building that represents a historical value was preserved at its initial state and the original layout that should remain unchanged was preserved as well.

we tried to reproduce the curvilinear movement of the western façade as a ground floor block that will mainly serve as a public shared area. With the dominance of a rectilinear frame, the curve brings unity to the overall architectural composition. The housing volumes were implanted to reach the optimal orientation by avoiding the total north oriented facades that were reduced in terms of width, and the association of the all the blocks was conceived to reach a balance between fill and void In order to insure the opening of our project, we created visual outlooks that divide the blocks , and by rotating each floor, not only does the building reaches optimal orientation for apartments, individual, public and semi public terraces were created due to the movement of the blocks

To maximize the exposure to sunlight, double sided glasses with high reflectivity were inserted in terraces to play the role of a mirror; this process could be considered as creating an additional facade for apartments. The big reflective surface inserted at the edge of the North facade represents the strength of the project, for an area with limited exposure, this installation will guarantee the same qualities in terms of lightning as the other facades Finally, to create a connected entity, an Ecoduct crosses the volumes guiding the public through entry points, outlooks and shared spaces between floors.

The project deliberately breaks from traditional residential designs, as spaces were conceived to reinforce social interaction and community life through creating physical junctions between the housing buildings (Multifamily housing, student residence and the flats block) and the community center .We also worked on the urbain extension of the Ecoduct by connecting it to the existing parc outside the site .

Reaching energy passivity in the buildings required a special care : on one hand avoiding thermal bridges and acoustic nuisance by integrating a selection of Saint Gobain materials that offer optimal comfort, on the other , developing a system of external alveolar walls that work on transforming the cold air while crossing the cylinder to become more temperate , the mirrors inside the cylinders reflect the sunlight on the curvilinear surface of each cell and heat the blocked .We also integrated a system of greenhouses associated to an atrium.





Types of apartments

















T2





T1

Student studios



3,5

0,4

2,9

5

3,5

2,3

0,1

0,1







23 m²

0.1

13 m²



Ground floor plan

1 EXHIBITION SPACE 2 MULTIPURPOSE SPACE **3 OFFICE** 4 OFFICE **5 RESTROOMS** 6 MEETING ROOM 7 STORAGE ROOM **8 LIBRARY** 9 GYM 10 CHANGING ROOM WOMAN 11 CHANGING ROOM MAN 12 CYCLES ROOM 13 LOBBY 14 TECHNICALS ROOM 15 LAUNDRY ROOM **16 STORAGE ROOM** 17 GAMING SPACE **18 CO-WORKING SPACE** 19 SHOPS 20 NURSERY 21 LOBBY 22 SECURITY ROOM 23 CAFFEE 24 LOBBIE OF MULTI-FAMILY HOUSING

































Section CC





the system of mirror alveolar walls













LIFE CYCLE ASSESSMENT



Fo	undations	and substr	ucture - 1	7%	
Ve	rtical struc	tures and t	facade - 82	2%	
Но	rizontal structures: beams, floors and roofs - 1%				
Ot	her structu	res and m	aterials - 1	%	
0%	20%	40%	60%	80%	100%











