

# **Barra costantini system Western Sahara**





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The present work studies the Barra-Costantini passive solar heating system, with particular emphasis on the aspect of economics. The system which is studied is developed by Barra and Constantini. This system seems to be well adapted to ...

### Using Fougara for Heating and Cooling Buildings in Sahara

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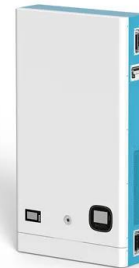
### Performances of the Barra-Costantini passive heating system

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The Barra-Costantini system (Fig. 1) is based on an air collector technique with the installation of an absorber (1) between a wall (2) and glazing (3), in order to benefit from ...

### BARRA-COSTANTINI SOLAR PASSIVE SYSTEM: EXPERIMENTAL PERFORMANCES.

The design and building processes of 40 solar passive flats in Marostica (Vicenza, Northern Italy) gave the opportunity to develop a mass produced low-cost passive component, the



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The aim of this paper is the numerical study of two new configurations of the Barra-Costantini system using building integrated semi-transparent PV technology. Each ...



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The improvement of the Barra-Costantini system allows to produce heat and electricity. o Internal solar gains are taken into consideration by calculating the sunspot area. o The conventional Barra-Costantini system gives an air temperature of 22.9 °C, while systems with glazed semi-transparent PV and semi-transparent PV produce



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Barra-Costantini (BC) TM ? ,,?

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### (PDF) Study of two new configurations of the Barra-Costantini system

The conventional Barra-Costantini system gives an internal air temperature of 22.9 °C, while systems with glazed semi-transparent PV and semi-transparent PV only produce temperatures of 22.6 °C and 21.5 °C, respectively. The maximum electrical efficiency of the PV glass panel is 15.6%, while that of the glazed PV glass



panel is 13.1%. 1.

### The passive solar system Barra-Costantini: performance and ...

It describes the passive solar system, developed in Italy and called Barra-Costantini System, from the name of Barra who conceived the fluid dynamics and from Costantini who conceived the mechanical part and applied it as an experimental prototype to his house in Salisano (Rieti). The system constitutes an advancement of the



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Contrary to many passive solar heating systems which can produce poor thermal comfort inside the heated buildings, the Barra-Costantini system has the advantage of being a natural regulator by storing heat during the day and restoring it during the evening.



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The Barra-Costantini system (Fig. 1) is based on an air collector technique with the installation of an absorber (1) between a wall (2) and glazing (3), in order to benefit from double natural circulation. During winter days, the air in contact with the absorber is heated, naturally ventilated upward and circulated in channels located in the



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The aim of this paper is the numerical study of two new configurations of the Barra-Costantini system using building integrated semi-transparent PV technology. Each configuration is integrated into a room located in Ksar Chalala in Algeria. In the first new system, the glass of the



conventional Barra-Costantini system is replaced by a PV glass



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