

## 2nd International Competition for Interior Designers

2009/10 Edition "Welcome to Hotel"

### ACTION EX-COLONY REGGIANA town of Riccione -Rimini province

#### Historical Summary

The colony Amos Maramotti was built in 1934 in just three months, a design engineer Costantini.

The settlement is part of a type of separate pavilions linked by corridors, including strictly functional interpretation is given, ie an extreme simplification and the reduction of compositional elements rationalists.

The peculiarity in Reggiana colony is the modernity of the processes used in its construction and modularity of the structure.

The buildings were in fact made very quickly, using reinforced concrete seismic, and their planimetric modular approach implies a possibility of repetition and prepared for further extensions, easily achievable through standardization and simplification of methodologies site.

The three buildings, unlike the staggered, arranged in diagonal to the trend of the coast, so you have more prospects oriented exactly east and west, along the axis heliothermic, as required by the sanitary regulations of the building type .

#### Facto state.

As per the report by the architect. Marco Gaudenzi, curator of a restoration project (Pesaro-5-2008 Kiros.srl client), the structure presents a general state of decay, its causes and consequences of the typical materials of the first modern and yet are not adequate for an overflow in the new intended use.

Estimates of intervention on the building envelope restoration and rehabilitation conservative on the existing structure (beams, columns, slabs), seismic structural adjustment, removal deteriorated shares, consolidation slabs and cladding, replacement windows, deletes "superfettazioni".

#### Design philosophy of action

1-building architectural After the intervention of restoration on the existing structure, re-construction of the building with creation of a second outer skin, environmentally friendly and sustainable housing in aluminum panels modular ventilated façade (DOLUFLEX<sup>®</sup> technology-Donatigroup) , to ensure an efficient energy saving and to connote the building: enter the bands at window blinds and horizontal guidance to mitigate and protect the energy radiating from the sun.

(also considering the reuse, recycling and disposal to end-of-life subject to compliance in a positive general economic environment intervention).

Cover type "plan" includes a roof garden that provides an effective isolation, partly equipped with walkways and outdoor furniture, as well as a temporary structure to make the roof accessible by guests. Part of the flat roof will be occupied by a module paraboloid concentrating solar thermal power of about 20 square meters act to supplement the energy demand of the building. (Xelion<sup>®</sup> technology-Donatigroup).

The building will be equipped with a catalytic combustor system that allows for and produce thermal energy independent of fossil substances. (Giacomini<sup>®</sup> technology) H2ydroGEM<sup>®</sup> is a catalytic combustor using just hydrogen and air taken into the atmosphere to produce heat used to heat the rooms of a building.

#### a-The project

includes interior walls for finishing interior walls systems with dry technologies (plaque type CARRARO<sup>®</sup> GF 25-class 0 180 Rei 53dB acoustic isolation) for internal divisions, construction of prefabricated bathrooms as cells with self-made technology DOLUFLEX<sup>®</sup> with application of Corian<sup>®</sup>.

#### b-Floors Lightweight

screed and screed posing as wood flooring, brushed steel and non-slip inserts in polychrome marble.

#### c-floor ceilings

**Mezzanine Floor:** modular panels made of aluminum, some plans partly shaped "wave, acoustic, micro holes, finishing with different areas: in the shiny, laminated, satin, Greece (DOLUFLEX<sup>®</sup> technology) that can contain technological systems: ducts for "home automation" building, radiant heating and cooling system, with air drying (technology Rirradia<sup>®</sup>), sewage plants in general (lighting, electrical, pneumatic, water, fire ...)

**first floor:** made of modular panels aluminum, plans, places at different heights, acoustic, micro, finished in different areas: laminated, satin (technology DOLUFLEX<sup>®</sup>) acts to contain technological systems: ducts for "home automation" building, radiant heating and cooling system with plant drying (technology RIRRADIA<sup>®</sup>), sewage plants in general (lighting, electrical, pneumatic water, fire ...)

**d-Insulation:** curtain walls and partitions horizontal roof top FOAMGLAS<sup>®</sup> cellular glass thermal insulation and parts of interior ceiling ISOLKENAF<sup>®</sup>, hemp-fiber insulation plant fibrebonded but not thermo-dimensionally.

**e-Electric Appliances:** Under the generic name of electrical components are to understand the following systems: normal diet, food safety, supply continuity

- Electrical connections to the main existing electrical substations
- Low voltage switchboard building
- Installation of main distribution panels and secondary plan or sector
- Air-land and protection from lightning
- System power output
- Electrical systems for mechanical equipment
- Lighting system normal
- Lighting system security
- installation of lighting management
- installation of fire detection and alarm
- Installation of gas detection and smoke detection
- Public address system for evacuation
- System access control and intercom
- disabled bathroom facilities reporting
- fiber optic connections to telephone and computer nodes
- Network structured cabling
- system of reception and signal distribution and satellite TV
- audio-video system in the meeting rooms

**f-mechanical systems:** The basic choices that were made concerning the system building / installation "mainly concern the following points:

- the "energy saving", understood not only in the simplest and most immediate Profile technical economic but also as a contribution to environmental improvement;
  - the use of packaging systems based primarily on the use of technology type "chilled beam";
  - taking full advantage of winter heat resulting from the "solar gain" determined by the glass surfaces;
  - the use of "innovative equipment" which leads to very high yields operation and heat recovery together with an optimal control
- "Quality of the microclimate;
- a high degree of filtration and precise control of the state and humidity
- Final of "quality" assets inside buildings;
- The night ventilation in summer configuration "free cooling" in order to dispose unwanted heat buildup in structures;
  - optimal control of air flow in buildings that will produce "speed very low air "virtually unnoticeable by the users;
  - the use of heat transfer fluid systems operating at temperatures close to those environmental and so with low thermal gradients "and high efficiency of transfer;
  - the careful soundproofing of the premises in general and particular attention the problems of "noise control" system

**G-lighting installations:** HIT metal halide lamps, recessed lamps, LED wall lamps energy saving lamps, electronic ballast compact fluorescent bathroom

2-frames in aluminum thermal break windows with selective hybrid / low-e

3-recovery provision of rainwater tanks and collection system designed to hold rainwater for irrigation system and a constructed wetland wastewater External

4-Formation of a building Curtain garden to recover some of the existing garden along the road of integration with essences tailored to the marine environment and conservation of existing natural areas (sand dunes).

#### **WORKS 4-INTERIOR DESIGN AND DISTRIBUTION**

The basic design initiative is primarily about making the hotel "green", so as to accept in a sustainable eco-tourists, including handicapped, breaking down barriers.

Using the systems necessary to reduce consumption and the removal of waste water and energy 's use of environmentally friendly technologies, the use of materials "recycled" using materials and process certificate - "FSC" for wood and its working "CATAS Quality Award", and all rules of protection and certification of materials used with proper execution "workmanlike".

**a-context Description:** beach resort, a former colony, located near the sea, volumes of buildings with characteristic "current".

**b-principle:** sea / air, Amarcord, Fellini, likeness buildings / ships, reflections / shadows, internal / external

**c-design concepts:** domestic space / sensory space - perception / enjoyment - infinitely small / infinitely large.

**Mezzanine Floor:**-From the street leads to the internal cohort characterized by a sheltered garden on the right to enter the hotel, featuring a porch outside accessible with ramps and stairs, entrance to the hall, filtered through a double gate compass Sliding tempered glass, place the whole vision of acceptance and sensory impact with the interior.

The path to the reception floor is characterized by a canopy of polychrome marble that recalls the "compass" bands steel side-slip boundary space reception and waiting area customers.

The ceiling unit is polished aluminum, shaped wave, and the two side sections, but featuring satin finish, in order to perceive the movement and sensation of the surf.

On the left are located the offices and secretariat director, the center shows the bow / stern of the reception desk Aluminium / Corian<sup>®</sup>, featuring a profile angle hull, showing illuminated holographic glazings characters (Fellini / Masina); back bench to mobile equipped with aluminum wave wall, the side sliding door in tempered glass bar and access to services, to the right stairs and elevator to the floor area.

Behind the filter of the sliding doors come into contact with the bar area, characterized by the continuation of ship form of reception, major preparation services and administration vary according to time-slot service.

On either side of bar seating structures are to be devoted to breakfast and the enjoyment of the bar.

Separated by a fifth in mobile facilities for service-sided-and tempered glass sliding doors, access to lounge area, reading, lobby longe, characterized by a central area sofas, with a warning: tree central-interior/exterior - on the sides of seating areas with tables and bench areas with "booths" (circular elements with hanging glass holographic reproducing showbiz personalities).

The back wall of this space may be split, mostly through sliding doors section collects packet, framed in aluminum uprights with thermal-acoustic safety glass with frosted translucent crystals, suitable to host a meeting and conference room for 50 people, or be paid in moments of non-use, room listening to music or entertainment programs with screen projector.

Access corridor to the meeting room equipped with chairs and shelf area lift to all floors, entrance hall area and personal services.

**First floor:**-area access via stairs or elevator, located in an area scales the other end of the building served by a corridor / hallway to the bedrooms / lounge area that runs along the side facing the sea.

The type of room is developed with:

-8 Standardized rooms, each with its own service area, fitted wardrobe, double bed, balcony relevant furnished with table and chairs, protected by shielding the side panels of aluminum sections, with gazebos and retractable sunshade tent floor on the front.

1 room with similar type but with different sizes on the compliance of the spaces

-4 Bedrooms with custom function but similar type of space distribution and similar to a higher category.

Construction principles: - reflect what is described in the preceding paragraphs of the main floor, namely wooden floor, walls with dry technologies, false "equipped" and technological systems. Regarding the cell bath, opted for a complete element prefabrication, characterized by the use of materials such as aluminum for the cell structure, vertical glass elements (closures shower / sink horizontal planes) suspended health, with floor-piece shower flush with Corian<sup>®</sup>, ceiling light (vacuum and embedded systems).

The decor of the rooms consists of:

No. 1 aluminum-paneled closet Doluflex<sup>®</sup>, 3 doors closed in front of a mirror finish, equipped with a luggage floor, minibar, safe, drawers and hangers.

No. 1 headboard wall spaced from the partition wall with padded back panel, covered in faux leather tufted, upholstered bed frame, bedside shelves 2 drawers still suspended, placed on the sides and overhead lighting concealed wall spaced, bedside lamps, adjustable and fixed wall.

Outer space - with chairs and table, protected from contact with neighboring separator panel, facing the garden protected by grid horizontal blinds, gazebos with movable tent.

**Floor flat roof:**-usability of access by stairs and elevator wells, production in the stairwell of service to individuals and a local technician to make space accessible to the flat roof for maintenance facilities and the paraboloid.

Anti-fall on the perimeter with laminated glass height 120 cm also acts to protect against the wind.

Demarcated areas for walkers, formation of garden planted with resistant tanks, protected areas dedicated to relaxation of a tensile structure (element connoting and distinctive from afar), Tree-concept revival of domestic / external nature.

**Outdoor spaces** - accommodation historic garden facing the road with existing integration pathways of usability, integration with weather-resistant woods, especially near the fence, equipment space "Zen meditation" example of the Japanese garden.

Restricting zone "functional" type systems with grass blocks to increase the drainage areas.

Arrangement of "external landscape" with sand dunes and trenches in squares of wood and of shelterbelts against dispersion and flottaggio sand.