

HOME DESIGN EXPO 2014



Ferreiras
Tile + Bathroom

Out of the Ordinary™



Waterfall

• COUNTRY LIFESTYLE ESTATE •

HOME DESIGN

03



► ARCHITECT

Francois Marais Architects

► BUILDER

Beucon

► SPECS

- 4 Bedrooms with en-suite bathrooms
- Separate Staff quarters
- Open plan kitchen, separate scullery
- Open plan dining room, family room
- Lounge/entertainment area
- Central atrium
- Bar and covered patio with braai
- Study
- Swimming pool
- Triple garage

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HOME DESCRIPTION

The design of the new residence in Waterfall Estate, focuses on the marriage of old and new, modern elements combined with the traditional style of the Highveld vernacular, where the combination gives birth to a unique residential design, suited for the context, rooted in its rich history but will stand the test of time. Francois Marais Architects with its experience in energy efficiency in buildings, having completed a 4 star green star rated building brings this knowledge to the design. The residence is orientated to the north allowing the Northern sunlight to naturally light and warm the interior of the building. Screens and deep roof overhangs on the western façade, help screen the intense western sun. Cavity walls are also utilised to regulate the temperature within the home as they control the exchange of heat from outside to inside. The high sun angles during the summer create shadows over the windows keeping the residence cool. The lower sun angle during the winter penetrates the windows below the slabs and roof overhangs to provide adequate exposure to the sun. The use of the bund wall concept allows for the northern walls to be heated during the day and allows the wide wall mass to radiate the heat over a period of 8 hours ensuring a constant temperature within the residence. The orientation allows for adequate solar exposure to all living spaces, while the residence opens itself up to the flow of indoor and outdoor spaces. The central atrium is not only designed as a feature but is also used to regulate the temperature within the building. The greenery and water features in this area cools the air which then cools the residence in summer. The atrium is used to bring light into the southern areas of the building and also provide heat during the winter when the sun angle is lower.



► FOCUSES ON THE MARRIAGE OF OLD AND NEW

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This home was specifically designed to fit into this prestigious lifestyle estate. It conforms to Waterfall's uniquely South African style of architecture which embraces "green living" and open space.

For more information on this estate or to arrange an exclusive meeting please feel free to contact one of our representatives.

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INNOVATION & GREEN DESIGN

One can decrease the use of energy by introducing passive solar design. These passive solar considerations should be in the mind of the designer when conceptually starting with the design. This can include orientation, shading of openings, and insulation of the building envelope and the use of indigenous vegetation that will allow for control over solar exposure. By orientating the living areas to ideally be facing north to allow for light and heat to enter the building. The openings can be shaded with the roof overhang or other shading devices to allow for the low lying winter sun to penetrate the interior and avoid the exposure from the summer sun. Indigenous, deciduous trees can also assist with shading in summer and exposing in winter. There are also a variety of different products to insulate the walls, roof and floor to prevent heat loss. We can introduce systems such as evaporative cooling, making use of convection where warm air rises and cooler air descends to cool interiors and allow hot air to escape. It is of great importance to allow for comfortable living environments by designing with the environment and integrating these simple principles.



► CAVITY WALLS ARE UTILISED TO REGULATE THE TEMPERATURE WITHIN THE HOME



FRANCOIS MARAIS ARCHITECTS

From conception right through to completion, we work closely with our clients. By gaining a clear understanding of their needs and objectives, we're able to provide a detailed architectural design which share the same vision and delivers the optimum solution. Pushing the limits of engineering, we've worked hard to build a varied and extensive portfolio that showcases our ability to produce signature buildings which test the conventional boundaries of modern architecture and design.

We're committed to developing forward-thinking 'green' designs which make use of the very latest in eco-friendly technologies and materials to produce intelligent, sophisticated and sustainable buildings. Our in-house interior design team work alongside our structural design team to ensure that each individual aspect of design works together to reach a common goal. Marked by an innovative use of space and close attention to detail, our architectural designs blur the line between interior and exterior to create liveable spaces which engage and compliment their surroundings in a unique and organic way.

Find out more about our Architects work. See examples of our architectural and interior designs in our extensive online galleries and contact Francois Marais Architects today to discuss your project in further detail.

BEUCON

We at BEUCON are making it our policy to build the best projects at the most economical prices throughout South Africa. Our clients will benefit from our knowledge and expert workmanship.

We deal with each client and project in a professional, safe manner and take a proactive approach to ensuring health and safety standards are maintained.

As a building Contractor we can tackle even the largest contracts with complete confidence, we are also equally adept at handling the smallest jobs. But no matter how big or small the project, we take great pride in the quality of our workmanship and will always ensure each job is completed to the highest standard, on time and within budget. Our highly experienced and well-trained workforce has a wealth of experience and is committed to providing a level of personal customer care that's unrivalled in the industry.

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