

MATERIALS & SUPPLIERS STEEL AWARDS

Inspiring SAISC Steel Awards 2022

Innovation, ingenuity and a sense of community within the steel construction industry were showcased on the evening of 13 October, when participants across the local steel value chain gathered to attend the highlight of the annual steel industry calendar.

SAISC



80 | volume 12 | issue 4
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The SAISC Steel Awards 2022, which demonstrates excellence in the use of steel in construction, was the first in-person Steel Awards held since 2019, prior to the Covid-19 pandemic. The 2022 Awards very effectively highlighted how the local steel sector has triumphed over adversity in the past two years; as well as showcasing a

typically South African 'can-do' approach to the challenges endured during this time.

The 2022 Steel Awards ceremony took place at Emperor's Palace, Gauteng. According to SAISC CEO, Amanuel Gebremeske, "A number of high-quality, truly excellent projects have been showcased at this year's annual Steel Awards, and I believe this is a testimony to our character as a nation, as well as the value which the SAISC brings to the local steel construction industry. The SAISC is one of only six steel institutes around the world, and has a long history as a 'steel sector sage': a custodian of technical knowledge, an educational resource and a trusted authority."



Steel Awards 2022 overall winner, the Benguela General Treatment Plant mining facility, onboard the 'Benguela Gem', the world's most advanced diamond recovery vessel (aerial view)

This year's Awards are a tribute to the much-loved former CEO, the late Paolo Trincherro, who did so much for South Africa's steel industry.

Overall winner

The SAISC Annual Awards judges were unanimous in their praise of the overall winner (also the winner of the Mining category), the floating Benguela General Treatment Plant mining facility, aboard the 'Benguela Gem', the world's most advanced diamond recovery vessel.

"This project stood out in a number of different ways, and presented a first in the history of the Steel Awards: it operates off-shore, and is floating rather than being stationary and anchored, a truly distinctive applicant within the awards categories. It was designed in Norway and Poland, built in Romania and fitted out by De Beers Marine South Africa," Gebremeskel advises.

"From the vessel arriving at the end of September 2021 with an empty deck, it sailed again in December 2021 with a fully operational mine onboard. It is an exceptional showcase of the use and applications of steel featuring South African design, fabrication and construction for an international client," he adds.

This year's awards introduced more categories, and consequently an increased number of winning entries, than in recent years.

"The reasoning behind this was to honour a broader spectrum of awards entrants. We wanted to cater to all possible role-players within the steel construction industry's varied landscape", says SAISC's Denise Sherman.

The Steel Awards Category winners are as follows:

Automotive

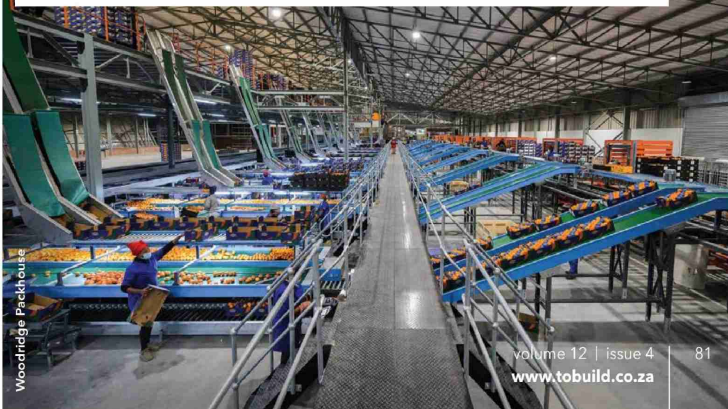
- Ford Package E: as part of a R3 billion investment by vehicle manufacturer Ford, an automotive assembly plant was erected in Rosslyn, Pretoria as part of the company's high-volume export programme. The project used extensive steel supplies and comprised a 12 400m² warehouse, 14.6m in height. The project was completed ahead of schedule, despite the Covid-19 pandemic and related supply challenges.



Ford Package E

Agri-Industrial & Best Project Eastern Cape

- Woodridge Packhouse: this project presents an interesting form, clever use of natural light and a design which allows for natural ventilation, saving on energy costs.



Woodridge Packhouse

Volume 12 | Issue 4
www.tobuild.co.za 81

Mining & Best Project Western Cape

- Benguela Gem Treatment Plant: this project not only won the Mining category but the 2022 Steel Awards overall (see above).

Residential and Best Project Gauteng

- House Vingos: the innovative use of steel combined with all the other elements of construction, delivers a statement piece of architecture and a warm, welcoming family home.



Sports Facilities

- KES Aquatic Centre: while retaining the heritage component of the previous swimming pool complex, the roof structure is of particular interest: an apex running diagonally across the structure, requiring meticulous attention to ensure leak proof sealing.

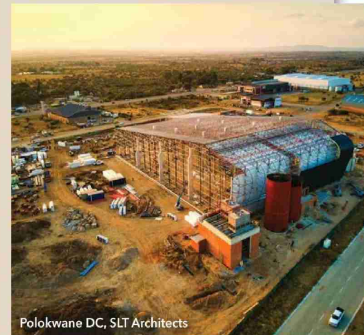


Community Enrichment

- Gary Kirsten Sports Centre, Khayelitsha: featuring ease of construction and sustainable materials, this structure also has the capacity to extend if need be.

Regional Awards: Other

- Best Project Limpopo, Freshmark Polokwane: the project, carried out for the Freshmark distribution centre in Polokwane, made use of particularly innovative cladding, atypical of a warehouse building, and technically challenging to achieve. The result was aesthetically pleasing, with a design element of curved bullnoses from roof to cladding.
- Best Export Project, New BioX Plant in Zimbabwe: this technically challenging structural framing project entailed detailing, fabricating and constructing a gold processing BioX plant. The primary objective thereof was to provide access to the various areas of the BioX plant and to its piping support system. ↑



Sculptural/Architectural

- Eastgate Solar Trees: in addition to their aesthetically-pleasing design and how this cleverly reflects a renewable energy focus, the access to the site during the construction phase was challenging, making for a complicated and challenging installation process.

Light Steel Frame (LSF) Building

- Jubilee Hospital: at the height of the Covid-19 pandemic, the innovative use of light steel framing in this field hospital in Hammanskraal, north of Pretoria, allowed for the addition of a significant number of hospital beds to increase existing capacity.

Metal Cladding and Roofing

- KES Aquatic Centre: this project won both the Metal Cladding and Roofing, and the Sports Facilities categories.

Tubular Steel & Best Project KwaZulu-Natal

- Babanango Travellers Camp: this innovative tourist accommodation is situated within the Babanango game reserve in northern KwaZulu-Natal. A number of interesting technical details included reconciling complex issues regarding the use of different materials of construction and geometrical factors, to achieve the project's architectural objective: roofing reflecting shapes used in traditional African shields.

