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OFFICIAL JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF CONSTRUCTION

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THE SOUTHERN AFRICAN INSTITUTE OF STEEL CONSTRUCTION

Tel.: +27 (O)11 726 6111 **Website:** www.saisc.co.za

Instagram: @saisc_steel

@steelawards

YouTube: http://bit.ly/SAISCYouTube
LinkedIn: http://bit.ly/SAISCLinkedIn

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LAYOUT: Sandra Addinall, +27 (0)11 868 3408 | +27 (0)83 601 7209 REPRO AND PRINT: TYPO Colour Printing Specialists cc

SAISC MANAGEMENT TEAM:

CEO: Paolo Trinchero, paolo@saisc.co.za | Technical Director: Amanuel Gebremeskel, amanuel@saisc.co.za | ISF: Neels van Niekerk, neels@saisc.co.za | SASFA: John Barnard, john.barnard@saol.com | SAMCRA: Dennis White, dennis@saisc.co.za | POLASA: Kobus de Beer, kobus@saisc.co.za | STEASA: Keitumetse Moumakoe, keitumetse@steasa.com



SAISC COMMENT

PAOLO TRINCHERO CEO. SAISC

PERSISTENCE AND COLLABORATION

IN THE FACE OF ADVERSITY

WE WOULD LIKE TO **ENCOURAGE** OUR MEMBERS TO

CONTINUE TO CONTRIBUTE TO THE

CONVERSATION, PARTICULARLY WITH RESPECT TO

THE **URGENT PRIORITIES** THAT NEED TO BE ATTENDED TO.

Steel Awards judging has wrapped up and I must say we are really impressed with the entries this year. Despite massive challenges being felt across the industry our members are still able to deliver projects which show innovation and excellence.

Things are moving slowly on the economic front and we seem to be a conflicted country and industry in just about every respect. I guess it's only natural to put survival ahead of collaboration, but in the long term industry collaboration will show benefits for all.

Following on from our industry meetings and CEO forum we have developed an industry paper and a number of to do lists which we will share with our members, other associations, labour and government stakeholders. We have done a great deal of work over the last few years and need to continue to push on and get our beloved steel industry back on track.

We had a wonderful site visit to Kusile Power Station and HSM (Ex Highveld Steel) together with the dti, DMR, ITAC and a few members which was a real privilege. HSM stands out as to how you can revitalize a business in business rescue. Thank you to everyone involved.

On the project front there are certainly some green steel consuming shoots on the horizon so we must ensure that we stay positive and hopeful that we can stop the bleeding in our industry and begin to regrow (Renewable Energy Projects, Mercedes Benz Investment, IDZ investments).

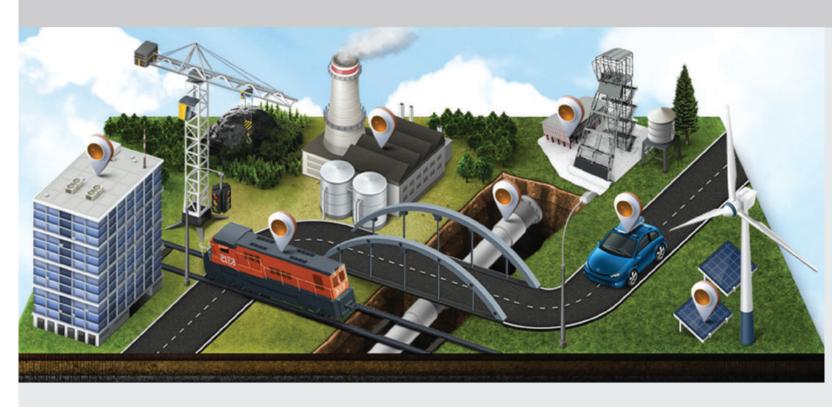
We would like to encourage our members to continue to contribute to the conversation, particularly with respect to the urgent priorities that need to be attended to. I again have highlighted a few below but there are many more.

- Market demand. We need our mining industry to recover.
- Pressure on margins, inventory, cost cutting. Industry is caught in a downsizing loop.
 (What can we do that is not

- commercially sensitive and steers clear of competition concerns?)
- Overcapacity across the industry.
 (Discussions around rationalizing parts of the industry are high level and would require competition commission engagement.)
- Industry relationships and collective action. "The Steel Supply Chain"
- Government Policy including procurement and BBBEE
- Access to new investments
- Export competitiveness

It is still my view that competitiveness needs to form part of our relentless focus to rebuild our steel industry. It is the only certainty we have that countries and companies that invest in innovation, people and skills will survive and grow.

With the above in mind what does the SAISC do and what should it do to keep the industry moving in the right direction? Where do you think we should focus?



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EDITOR'S NOTE

DENISE SHERMAN
MARKETING MANAGER, SAISC

ESCAPING THE HAMSTER WHEEL

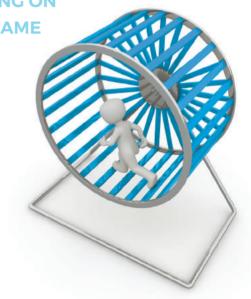
ARE WE ACHIEVING RESULTS, OR ARE WE RUNNING ON A HAMSTER WHEEL, PERPETUALLY FACING THE SAME ISSUES AND CHALLENGES WITHOUT ANY REAL END IN SIGHT?

A couple of months ago our family welcomed its newest member. Before you start sending through hearty congratulations emails, allow me to clarify. Through the careful and calculated machinations of our children, my husband and I were coerced into allowing a dwarf hamster into our house.

Those of you who have been down this road will know that hamsters have two settings... "off" and "run on my hamster wheel at break-neck speed." What place does this information have in an editor's note for Steel Construction? I'm a great lover of metaphors and philosophy, so the hamster's habits got me thinking about parallels with the steel construction industry. How effective are the activities we are pursuing, as individuals, companies and as an industry? Are we achieving results, or are we running on a hamster wheel, perpetually facing the same issues and challenges without any real end in sight? Movement, especially frantic movement, does not necessarily equate to progress.

So how do we escape this wheel? Perhaps, acknowledging that we're on a wheel is a start. We need to gnaw our way through our cages, unhelpful paradigms, faulty assumptions and perhaps even unconscious bias that prevents us from making real progress. We're an industry of men and women with tenacity and energy.

Let's take a step back, off the hamster wheel, and seek out opportunities instead of fixating on the many negatives. Let's make some real progress. Let's stuff our cheeks full of dried fruit, seeds and nuts, and make a run for the wild!



SAISC CALENDAR 2018

EVENTS

28 September Steel Day Breakfast

(AR and VR in the Built Environment)

11 October Steel Awards (JHB/CT/DBN)

November POLASA, SASFA, SAMCRA, ASTPM, STEASA and ISF AGMs

7 November SAISC AGM

7 November SAISC Cocktail Function

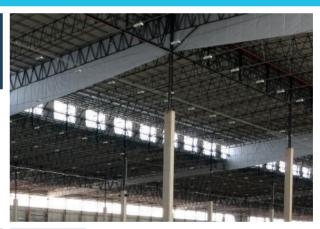
PROJECT PROFILES





WAREHOUSE AND INDUSTRIAL











Nominator - Macsteel Service Centre SA | Client/Developer - Corruseal Group
Structural Engineer - Alan McNaughton & Associates | Main Contractor - JNM Construction
Steelwork Contractor 1 - Avellini Bros (Pty) Ltd | Steelwork Contractor 2 - Union Steel | Steel Erector - Union Steel
Cladding Manufacturer - Blue Scope Steel | Cladding Supplier - Global Roofing Solutions
Cladding Contractor - Chartwell Roofing (Pty) Ltd

The 135 000m² site is situated in Croydon in Cape Town and is bounded by the R102, the Eerste River, the railway line bordering Stellenbosch and the Steyne Road. Their requirement was a factory/warehouse of approximately 30 000m² and associated offices of approximately 500m² on two levels. They stipulated that the factory/warehouse should have a width of at least 150m and allow for future extension.

The first challenge was to determine the overall shape of the structure. Due to the overall size of the building, the most efficient roof structure was determined to be a barrel vault. A double pitched roof would have resulted in an unnecessarily high apex with concomitant high gables and a significant increase in the quantity of steelwork and sheeting. Costs of services too would have increased. Valley gutters were not considered to be an option because of the potential for roof leaks. A distinct advantage of the barrel vaulted roof is that when the slope is very flat rainfall runoff is negligible, but when the runoff is at its maximum, the slope is at its steepest.

An extremely large radius of 600m was selected for the curve of the roof for aesthetic as well as functional reasons to limit the height of the crown of the roof to reasonable proportions. Natural lighting was introduced through the use of monitors which also enhanced the general aesthetics of the structure. Secret fix Klip-Tite sheeting was selected for



its slightly deeper profile and its advanced clipping system. Sheeting was kept to manageable lengths by dividing the curve into three approximately equal sections, with the middle sheet raised by 80mm to avoid a butt joint at the crown where slopes were extremely flat.

The curve of the roof made the use of cellular beams an obvious choice because of the ease of introducing a radius to the rafters. Cellular rafters were selected for their aesthetic appeal and elegant proportions.

The second challenge was to determine column centres which would accommodate Corruseal's large manufacturing plant, operating system and warehousing requirements. Through a process of trial and error, the optimum grid for the structure was 6.75m in both directions. Columns were fixed at $20.25\text{m} \times 13.5\text{m}$ centres with the curved cellular rafters spanning the 20.25m dimension and transverse parallel chord girders spanning 13.5m. The overall size of the building (centre line to centre line) was set at $162 \times 162\text{m}$.

The structure was initially designed using steel columns. However when it came to determining where to locate internal vertical bracing, every position selected clashed with Corruseal's operation and reinforced concrete columns were the only alternative. This decision led to the columns being precast which helped to reduce the overall duration of the project.

For functional and aesthetic reasons cantilever rafters were introduced at the eaves. This will ensure that rainwater will be discharged away from the sides of the building in the unlikely event that the gutters will be overtopped. The cantilevers would obviate the truncated appearance on the sides if they were left off.

Detailing of the steelwork was achieved using Tekla software which ensured that only a few minor issues had to be dealt with on site.

Tons of structural steel used: 596 Tons

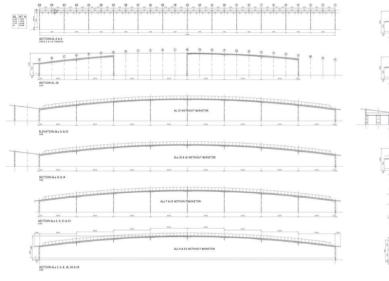
Structural profiles used: Curved cellular beams and

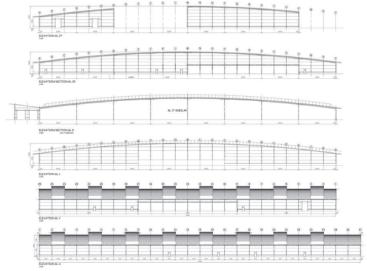
structural sections

Cladding profile/type used: Klip-Tite 700 AZ 200

Zincalume 0.53

Cladding area/coverage and tonnage: 30 000m²









Nominator - AECOM | Client/Developer - Gibela | Architect - AECOM | Structural Engineer - AECOM | Engineer - AECOM | Project Manager - AECOM | Main Contractor - Trencon | Steelwork Contractor | Churchyard and Umpleby | Steelwork Contractor | Churchyard and Umpleby | Steelwork Contractor | Churchyard | Cladding Manufacturer - Powersteel (Louwill Lefa) | Cladding Supplier - Global Roof Solutions (GRS) | Cladding Contractor - Global Roof Solutions (GRS)

What is the purpose of the structure/project?

The purpose of this project was to provide a $\pm 50~000\text{m}^2$ industrial facility designed for the manufacturing of 580 trains for PRASA (Passenger Rail Association of South Africa), accommodating overhead cranes ranging from 2t to 2 x 10t tandem cranes.

What was the brief to the architect?

The brief to the Architect was to design a facility which encompassed the entire manufacturing process, from the extrusion of the raw steel, assembly of the coach, electrical wiring and internal fitting, filming, static testing and through to the final dynamic testing of the completed train.

Was the project envisaged in steel from the start? If not - why was it built in steel in the end?

Mostly yes. There were several iterations of the design to value engineer the buildings. The initial gable structure was concrete, but later changed to steel to speedup construction and reduce the size of the foundations.

Give a brief description of the structural framing. What type of sections were used (e.g. hollow, cellular, I beams, etc.) and why?

The main frame of the buildings consists of both lattice columns and I-Columns at 8 meter grid spacing. The roof consists of steel trusses made up of angle sections. Purlins and girts consists of Metsec profiles. Metsec purlin and side

rail systems are manufactured from higher strength steel, with minimum yield strength of 390 MPa in comparison to the common and local Z and C sections, which generally have yield strength in the order of 200 MPa. This allows for larger purlin and girt spacing and an overall lighter structure.

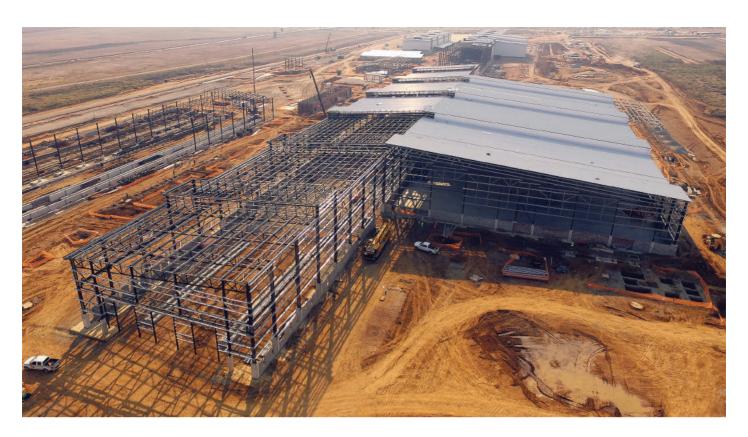
The Gate House roof consists of curved cellular beams. This was mostly an architectural feature, because it is the main entrance to the site.

Were there any challenges in the fabrication of the project from the engineer's design - if yes, please tell? Tell more about fabrication and erection process if it was complex, difficult, innovative etc.

Some roof spans were more than 29 meters. This meant splicing of trusses for ease of erection. The erection process was quite conventional. It was a challenge to obtain the correct curvature for the curved cellular beams at the building entrance.

What is special/unusual/innovative/aesthetic about the steelwork/cladding in this project?

One of the buildings has a 12.5 meter cantilever canopy, with a gutter on the edge, spanning over a 10 x 48m hardstand which would be used as a laydown area. The client required a clean working space below to ease the movement of vehicles.



How did the project team work together (e.g contractor involved early, challenges/ease of communication etc.)

The engineer communicated directly with the steel fabricator to finalise fabrication drawings. The contractor was copied in all communication and witnessed the meetings. The engineer shared the 3D Revit models and hard copies (serving as the master files) with the fabricator to ease in the translation to Tekla structural steel. The fabricator also shared his Tekla 3D model as supporting documents with his set of fabrication drawings. This

workflow was implemented in an effort to speed up the approval process.

Tons of structural steel used: 2396

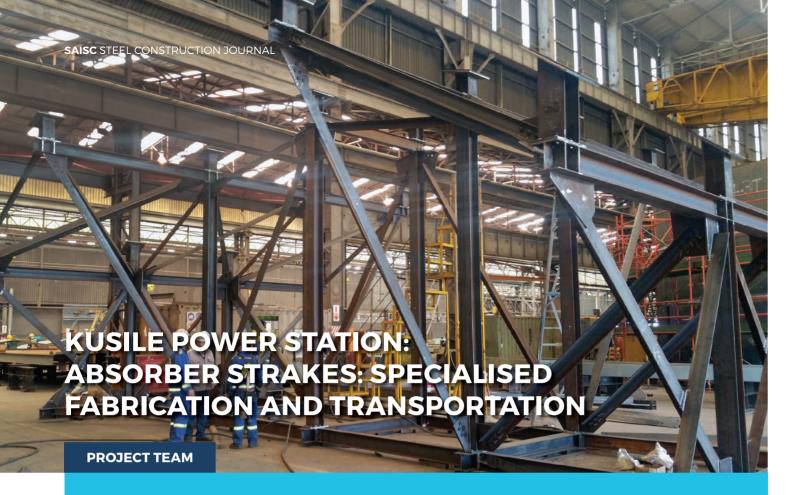
Structural profiles used: Curved cellular beams, Metsec

purlins, Hot rolled sections

Cladding profile/type used: 0.55mm Saflok 700 profile (roof) 0.55mm Trimflute profile (vertical/side)

Cladding area/coverage and tonnage: 77 352m²





Nominator - GENREC I Client/Developer - GE (at time of project) I Structural Engineer - LSL Consulting

Engineering Manager - GENREC I Main Contractor - GENREC I Steelwork Contractor - Burger & Company

Steelwork Contractor - Nessa Engineering I Steelwork Contractor - One Steel

Nature of the project

The purpose of the project was to decrease "time to site" as well as "time on site" as well as to simplify onsite erection. Manufacturing the Absorber Strakes in the largest possible assemblies enabled a market improvement in fabrication and manufacturing quality.

The largest components moved were 1200 segments of a 20m diameter, 9m high, circular absorber tower section, fabricated from 14mm steel plate.

The following considerations came into play when determining the feasibility of the "large assembly transport":

Positive considerations

Conditions inside the fabrication workshop at Genrec were controllable and assembly could take place without interference from the elements.

Quality control was easier, and automated welding methods could be used.

Time to/on site (i.e. site costs) was drastically reduced.

Negative considerations

Bespoke transport cradles, as well as lifting equipment needed to be designed and fabricated. This was mainly due to the flimsy nature of the 1200 segments.

Due to the highly specialised nature of the design, specialist design expertise would have to be outsourced.

It was decided that the positives outweighed the negatives and LSL Consulting Engineers were appointed to design the lifting and transportation equipment.

Design process

Since the absorber towers are not constant in diameter, some sections were reducer sections and some were smaller sections. Therefore, a "one size fits all" system could not be used. All in all 4 different lifting arrangements and transportation cradles were used.

Due to a design process involving people from management right down to the factory floor, it was possible to design the





different cradles and lifting beams in such a way that they could be disassembled and modified to suit the specific requirements of the particular component to be moved. Thus the same cradle components could be re-used.

As far as possible, standard hot-rolled structural sections were used (I-beams and H-profiles) due to ease of availability. Specialised spreader beams were however required to carry out the "top-and-tail" operations required to rotate the absorber segments from a vertical manufacturing position, to a horizontal transportation position. The spreader beams were manufactured using bespoke box girders due to considerations of lifting capacity.

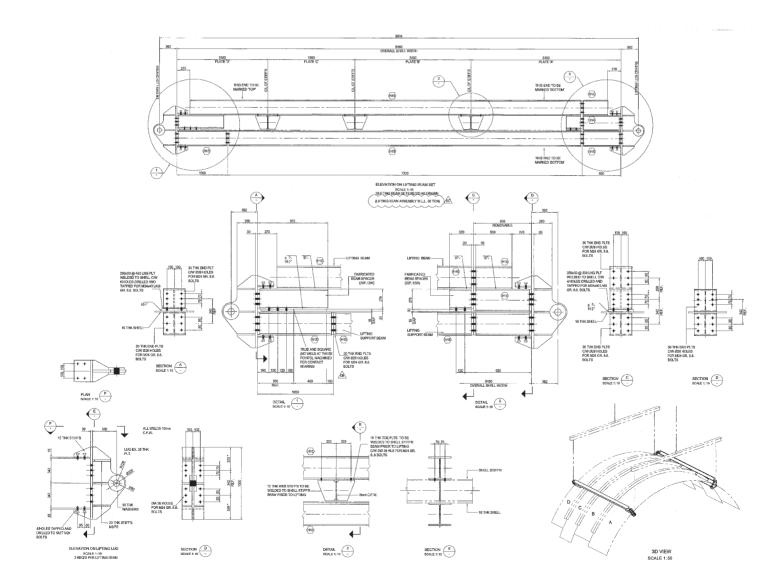
The most interesting part of the process was that the spreader beams, as well as the lifting beams which clamped onto the shells, had to be positioned in such a way that the centre of gravity of each shell would act as the rotational pivot point.

Fabrication and Transportation

Fabrication of the cradles were done partly in-house and partly outsourced, and transportation and transport coordination was outsourced to a specialist contractor.

Tons of structural steel used: 309

Structural profiles used: Box girders, I-beams, H-sections





Client/Developer - Rokwil Property Development I Architect - T C Design Architects I Project Manager - Dave Armstrong
Quantity Surveyor - MHS Consulting Quantity Surveyors I Main Contractor - Abbeydale Building and Civils (Pty) Ltd
Steelwork Contractor - Cadcon Steel Construction and Engineering I Steel Erector - Fanie Leibrandt Steel Erectors
Cladding Manufacturer - Macsteel Service Centres (Pty) Ltd I Cladding Contractor - Impact Engineering (Pty) Ltd
Cladding Supplier - Macsteel Service Centres (Pty) Ltd I Corrosion Protection/Galvanizing - Dram Industrial Coating

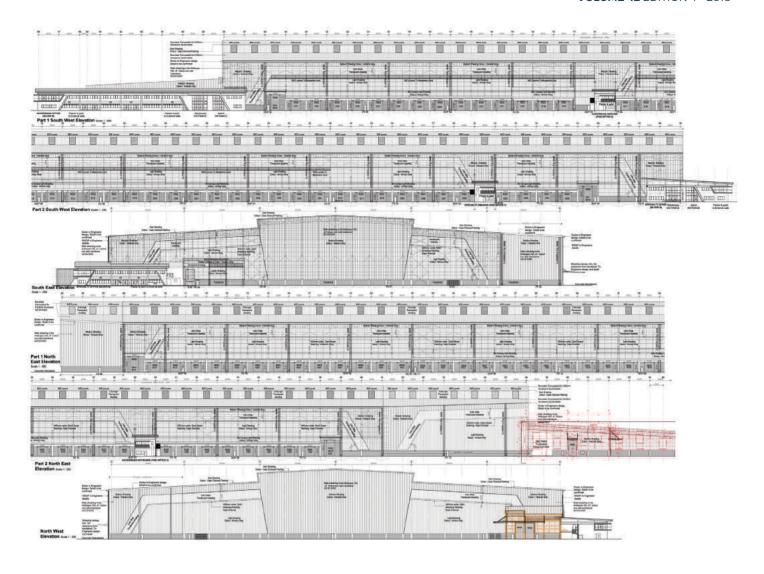
The purpose of the Pepkor Warehouse in Hammarsdale is to serve as a distribution centre for the Pepkor group. The distribution centre consists of the following aspects:

- Total of 80 000m² of covered warehouse space (180m wide and 440m long).
- Main Ackermans office and a main Speciality office with 3 000m² and 1 800m² respectively.
- A total of 4 node offices of 500m² each.

The brief to the architect and the team for the structural portion of the project was the following:

 Warehouse to be ±55 000m² for Ackermans and ±25 000m² for Pepkor Speciality in one building as per the layout plan.





- Approximately 17.35m clear height to underside of eaves.
- Reinforced concrete and structural steel all to structural engineer's design incorporating appropriate corrosion protection where necessary.
- Internal column spacing based on a 33.2m x 30.5m grid (4 doors @ 8.3m centres = 33.2m).
- The structure steel was strengthened locally to allow for the installation of solar panels to a roof area of approximately 15 000m².

The warehouse was always envisaged to be constructed mainly out of structural steel. The main support columns of the warehouse were designed and constructed out of concrete up to 12.6m and 17m from FFL. The remainder of the structure was constructed out of structural steel.

The structural system used for the building was based on a girder truss system carrying lateral trusses that makes up the main elements of the roof. Various steel profiles were used for the building from hot rolled I-beams, angle irons, circular hollow sections, cold rolled lipped channels and so forth.

The remarkable aspects of this project were the speed at which the steelwork was erected as well as the completion of the overall project. A total of 2 500 ton of structural steel was erected (main warehouse 2 180 tons and

canopies/offices 320 tons = 2 500 tons), with the erection commencing on 14 November 2016, and reaching completion of the main warehouse structure (2 180 tons) at the end of March 2017 (which includes a builder's break). This remarkable achievement took place over a period of 90 working days to erect on average of 24 tons per day over a period of 4.5 months, using on average 8 cranes on site over the same period.

A sensitive construction program had the steel contractor under pressure from 19 August 2016 which was the date of appointment. Cadcon Steel Construction decided to enter in a joint venture with A. Leita Steel construction to reach the delivery various dates for erection. The on-site production required to meet the construction program resulted in an average of 485 ton of structural steelwork to be erected per month.

The entire project team worked together successfully throughout the entire duration of the project. Effort was made to design the structure in a manner that suits the various contractors involved at each step of the project to reach the various project milestones.

Tons of structural steel used: 2 500 tons Structural profiles used: Hot rolled I-, H-, angle section, cold rolled lipped channels



Nominator - Earthworld architects & interiors | Client/Developer - REH Group Architect - Earthworld architects & interiors | Structural Engineer - Aurecon | Main Contractor - Eigenbau

Architect's motivation

Situated in the rolling foothills of the Drakensberg Mountains, along the banks of the Ash River, the Stortemelk Hydroelectric Plant attempts to celebrate the importance the plant holds in producing clean, responsible electricity in South Africa.

Comprised of a number of building skins, the design approach intended to create different experiences of the plant from the exterior, & from within the interior. Clad in Corten Steel and Polycarbonate sheeting, the architecture is intended to be of its landscape, while still allowing for good light quality to penetrate into the plant interior. Articulating the façade with slotted window openings allowed for the perception that the electrical production of the plant is spilling out into the surrounding environment, creating a beacon in the landscape.

On approach to the site, the Corten sheeting reaches up into the skyline, announcing the building and adjacent river from a distance. The lightness of the steel construction is then contrasted by the far more stereotomic design of the rest of the plant, which protrudes from the river bank as a plinth.

The challenge in the project was to create spaces for production, with minimal human interaction. Working hand-in-hand with an exceptional client made the realization of this celebration of production possible, creating architecture with respect for the responsible electrical generation the client creates.

Client's motivation

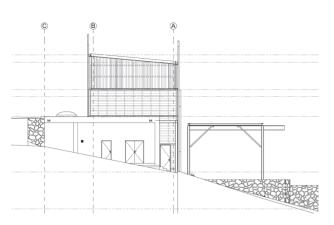
The client's brief for the Ash River site was to create a housing for a hydro-electric plant that blended seamlessly with the surrounding landscape while also celebrating the responsible production of electricity. Many of their hydroelectric sites have been in operation for decades, which therefore requires an approach that does not become a burden on the landscape or surrounding community.

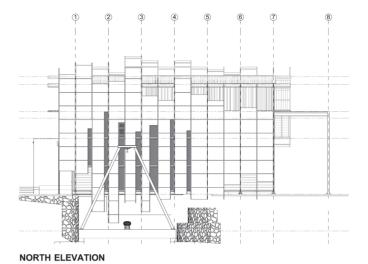
The response to this brief from the architect achieved every aspect that the client required, succeeding in both blending into the landscape, while also celebrating the plant's functions. Beyond this, the design managed to create a spectacular light quality in the work areas of the plant through the use of polycarbonate sheeting.

The plant stands as the perfect mediation between the production of electricity from the river, and a well-considered addition to the Golden Gate landscape. In its entirety the client believes this piece of production architecture fits wholly within their ethos of responsible creation, standing as a testament to what can be achieved without negatively affecting the unique countryside.

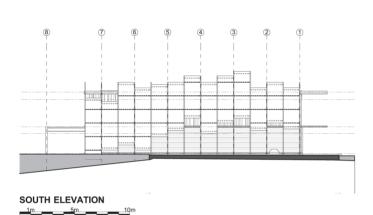
Profiles used: 406 x 140 x 46mm galvanized steel I-Beams and Columns, IPE-AA 120 galvanized, IPE 200

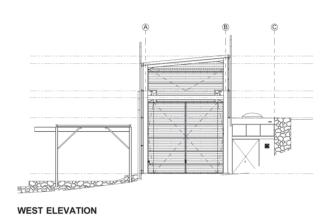
Type of cladding: 3mm Corten sheet panels and polycarbonate sheeting















Nominator - KRU Detailing cc | Client/Developer - Fortress Fund Developers | Architect - ICM Architects Structural Engineer - EDS Engineering Design Services | Structural Steel Detailer - KRU Detailing cc Engineer - EDS Engineering Design Services | Quantity Surveyor - Quanti Cost Quantity Surveyors Project Manager - Fortress Fund Developers | Main Contractor - SE Steel Fabrication Steelwork Contractor - SE Steel Fabrication | Steel Erector - SE Steel Fabrication Cladding Manufacturer, Supplier and Contractor - Pinnacle Cladding

What is the purpose of the structure/project?

The main purpose of the structures is to serve as a warehouse facility.

What was the brief to the architect?

The architectural brief was to design a warehouse that had large internal column spacing, creating a versatile open storage area and dedicated racking layout with minimal loss of space due to column interference. The warehouse spanned over a total of 30 000m² in total comprising of three storage segments inside with a 12m clear eave height.



Was the project envisaged in steel from the start? If not - why was it built in steel in the end?

The structure was designed as a combination of a face brick plinth wall with cladding onto a steel structure above plinth wall with roof structure and canopies. A structural steel truss system comprising of large span girder trusses and secondary lattice trusses was chosen to provide the required clear span attributes.

Give a brief description of the structural framing. What type of sections were used (e.g. hollow, cellular, I-beam etc) and why?

A combination of hot-rolled H-, I- and angle iron sections were used in parallel with cold rolled lipped channels.

Were there any challenges in the fabrication of the project from the Engineer's design - if yes, please tell? Tell more about fabrication and erection process if it was complex, difficult, innovative etc.

The uniformity in structural shape and sections selected for the design made the fabrication process easy, which enabled the erection process to be streamlined.

How did the project team work together (e.g. Contractor involved early, challenges/ease of communication etc.)?

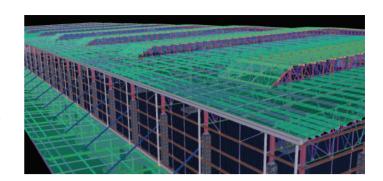
The use of Tekla Structures as primary draughting tool facilitated in the communication between design, engineer, structural steel detailer and contractor. Quick response, effective communication, and the ease of understanding

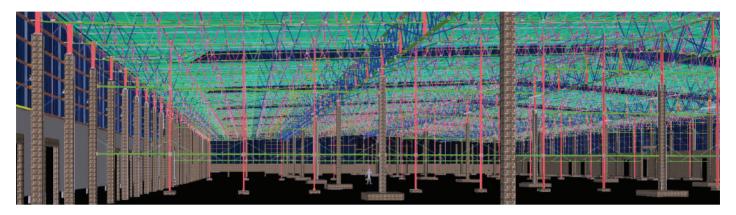
the structural scope, that combined with professional team meetings and inspections.

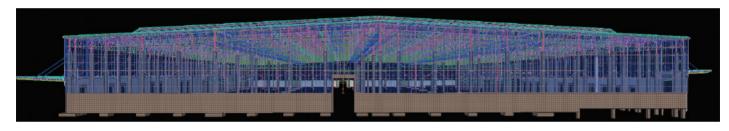
Tons of structural steel used: 720 Tons

Structural profiles used: Profiles used were standard columns, beams, lattice trusses and girders (angle irons), some of the ties were circular hollow sections and the purlins and girts used were pre-galvanized 2mm lip channel sections

The completion date of cladding: September 2017 Cladding profile/type used: NOVOTEXi Roof Sheeting











OPINION

AMANUEL GEBREMESKEL
TECHNICAL DIRECTOR, SAISC

STEEL TO THE RESCUE -

MEETING THE AFRICAN CONTINENT'S RAPID URBANISATION NEEDS

I was surprised to learn that the celebrated author Simon Sinek lived in Joburg for a while as a child. In his 2009 book, *Start With Why*, he compares the two main ways to influence human behaviour – manipulation and inspiration. Sinek argues that inspiration is the more powerful and sustainable of the two.

Sinek says that people are inspired by a sense of purpose or "Why", and that this should come first when communicating, before "How" and "What".

Why we do what we do

Urbanization presents an incredible opportunity for those of us who are motivated by a desire to build things for people. For instance we can design, fabricate and construct inspiring residential, office, shopping and leisurely buildings in order to create viable cities that can absorb millions of people a year. This opportunity exists for us not only in South Africa but all over the continent.

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We are able to solve many of the problems that arise when building such monumental structures by innovating. For instance anything that we can do to reduce the amount of fresh water that is used in construction can leave more water for human use. One way to do this is to avoid the use of formwork that requires cleaning, and to use less materials in general.

Innovation typically involves successful commercialization of new products and services, or at times older ones that are to be used in new ways. Over the past century adoption rates of successful innovations have been getting faster. This means, in order to benefit from urbanization, we need to urgently support all those people who are involved in innovation. There is little time to spare.

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POLASA NEWS

GARY WHALLEY
Business Unit Managing Member,
Babcock Ntuthuco Engineering



THE TRANSMISSION LINE INDUSTRY IN SOUTH AFRICA

"A SINKING SHIP?"

Introduction

The South African local transmission line industry finds itself in extremely choppy waters. No new high voltage transmission line projects have been launched into the market since late 2016.

Eskom, as the sole provider of high voltage transmission line infrastructure, faces a severe cash crisis which calls into question its ability, or desire, to launch necessary new capex projects to market when it is struggling to address its operating cash needs. While there is a need for additional infrastructure to evacuate power from its new power stations and reinforce the network's capability to supply remote demand areas, its regulated grid code requires an N-1 grid capability not yet addressed.

The local South African transmission industry, having largely delivered on Eskom's projects, finds itself in distress, experiencing significant job and capacity losses through business downscaling, distress or business exits from the sector.

Is the local industry doomed to failure or will a concerted South Africa first approach between stakeholders create a sustainable industry able to underpin South Africa's grid requirements as a first priority.

Executive summary

This paper is an attempt by POLASA to table the significant issues that must be addressed and resolved by stakeholders to avoid further job losses, loss of manufacturing capability and the destruction of a local industry, which would result in South Africa becoming a price taker for critical and necessary transmission line infrastructure.

Despite its niche nature, with peculiar skills and unique operating environment, this industry plays a vital and critical role in enabling Eskom to meet its mandate of delivering critical transmission infrastructure, to integrate electricity generation with its broader electricity distribution, to underpin the growth and development of the nation.

The paper primarily focusses on the transmission line construction industry but is indicative of all underpinning manufacturers and suppliers to this industry who are facing short-time, retrenchments and business closure as a result of the current state of the industry.

Framework

In a consistent manner Eskom has, from 2006 onwards, exhorted the local transmission line industry to invest in and increase its capacity to deliver on its requirement to build 1 000km of

transmission lines per year. In keeping with Eskom's social mandate, local industry was encouraged to incubate smaller contractors to further enhance and develop capacity, as well as ensure that safety of the industry remained a non-negotiable imperative.

POLASA's mission reflects Eskom's position, seeking to establish and support a "viable and sustainable power line industry".

In a concerted and earnest response, the local industry increased capacity over the period from 2006 to 2018 through:

- capital investment in specialist equipment and new technologies;
- extensive recruitment and training of personnel;
- incubation of smaller contractors to increase capacity;
- concentrating on localization of manufacturing, skills and expenditure for the benefit of the areas of operation and the country;
- transformation of local companies to address the imperative of BBBEE; and
- the establishment of POLASA in 2013.

The demand for transmission line infrastructure peaked in a bubble of work released by Eskom to the market in 2011 when 1 700km of lines were

CONNECT WITH POLASA: Contact: Kobus De Beer Email: kobus@saisc.co.za Web: www.polasa.co.za

put out on enquiry. A concerted effort by local industry saw it win and execute 40% of these projects or about 680km through 2011 and 2012. The balance of contracts were awarded to five multinational companies who struggled to deliver the circa 1 000km through 2011, 2012 and 2013.

By 2013, the local industry faced a "burning platform", with some 5 000 jobs jeopardized and a complete interruption of work for 12 months due to a lack of projects being put into the market by Eskom, despite its ongoing insistence that the imperative to continue increasing capacity to address 1 000km of new transmission lines per annum. POLASA published its "Burning Platform" Industry paper as a platform to engage stakeholders on the crisis in the industry. Inherent risks in the roll-out of transmission infrastructure were identified. Eventually four of the five multinationals involved in the industry left South Africa, some vowing not to return due to inherently difficult operating environment.

"Sinking Ship?" or "Sinking Ship!"

Despite extensive engagements with stakeholders from 2013, another peak in demand arose in 2015 when Eskom launched some 2 200km of transmission line enquiries to market.

Despite the intensely difficult operating conditions, the local industry has risen to Eskom's needs.

To date, of the 1 300km of this tranche of work which is completed, 92% or about 1 200km has been built by local companies. Of Eskom's Shareholder Compact kilometers, local industry delivered 95% in 2016/2017 and 100% in 2017/2018. The local industry certainly has not been without fault in its delivery of these kilometers, struggling to deliver work contractually on time and within contracted cost.

The majority of the 900 kilometers left to build are in the hands of multinational companies that continue to struggle to deliver transmission line infrastructure in South Africa. In certain instances, Eskom has been obliged to remove contracted work from these companies due to non-performance arising from parent companies being in business rescue in their home countries, either at or around the time of contract award from Eskom.

In the interim, the local industry is confronted by the crisis of no new work coming to market for over 18 months and unless serious interventions are made, over 6 000 jobs will be lost at a time when the country can ill-afford additional unemployment.

Local companies, whether large contractors, smaller incubatee contractors or secondary suppliers are in financial distress, are downsizing or exiting the industry. The inherent risks identified in 2013 remain unchanged and have in fact been exacerbated by the sociopolitical environment in the country. Without intervention it is highly likely that the local capacity to deliver on new transmission infrastructure will be destroyed.

Is this sustainability?

Over the period 2009 to 2018 eighteen contractors have participated in the construction of Eskom transmission infrastructure. During that time fourteen contractors or 77% have exited the South African Industry. The minority of these voluntarily due to the extreme challenges posed. But the vast majority through business imperative, voluntary liquidation or business rescue.

In the last twelve months incubatee contractors are in severe business distress and face the real prospect of business failure.

The award of contracts to multinational companies has repeatedly resulted in:

- Project delivery either exceptionally late or completely failed;
- Various South African smaller subcontractors in business distress through non-payment for work done;
- Local contractors sanitized from participating in necessary transmission infrastructure



- construction, despite now having excess capacity to build;
- Minimal to no Supplier
 Development and Localisation
 having been contractually obliged,
 as well as no incubatee development
 obligation being contracted –
 contrary to such contractual
 requirements being imposed on local
 contractors.

No industry can achieve sustainability when there is no continuity of work.

Unintended consequences?

In the early part of the new century, faced by an exceptionally large infrastructure demand, Eskom established its Group Capital Power Delivery Projects structure. In this structure, project delivery was primary and various functional departments, fundamental to successful project delivery, were subjugated to Power Delivery Projects. These included lands & rights, procurement, engineering and SHEQ.

In circa 2010 this structure was dismantled, and each department was made independent of Power Delivery Projects. The result was a loss of focus on project delivery, with each department developing and working towards its independently identified priorities.

One cannot fault the procurement strategy of achieving the lowest price for a contract from the Eskom Commercial team in its efforts to deliver cheap electricity to the country. However, the question of whether that strategy has deliberately resulted in the current and prior crises in the local industry, or these crises have been the unintended consequence of that strategy.

Were the 2011 and 2015 "bubbles" of work an intentional strategy to elicit lowest prices through creating a boom or bust demand cycle of work on the industry?

The drive for cheapest price has resulted in some unusual procurement practices which smack of the extreme leverage of customer power:

- Transmission line construction projects are competitively bid as would be expected:
- However, despite a stated

- commitment to transparency, in Eskom funded projects, no bid prices are read out at tender opening;
- Then on evaluation as the most competitive bidder, a process of further aggressive negotiation is undertaken with the preferred bidder to extract further discounting or cost reductions; and
- Contract award prices are not published.

Once the project is awarded, the procurement team has completed its mandate and has no accountability for the completed cost of the project.

In certain well accepted project environments, the cheapest price bids are eliminated to remove the risk to successful project execution of an underpriced contract and a resulting underperforming contractor.

On award of contract the project is handed over to the Power Delivery Projects team whose mandate, quite understandably, is founded on the successful delivery of the project: safely; on time; to specified quality; and within budget (defined by the contract price).

In the circumstances the project team, through contractual terms and leveraging of customer power, seeks to manage its risk through acts that severely impact the contractor's cash flow:

- The demand for excessive contract security through:
 - high payment retentions which reduce free cash flow to fund project operations; and
 - high performance guarantees. This requirement particularly constrains smaller emerging contractors who must obtain such guarantees out of credit facilities from their banks (which are already reluctant to extend such facilities due to the emerging nature of the contractor).
- Further constraint on free cash flow by:
 - the introduction of unrealistic interim completion dates with associated penalties. Even where such penalties may be later reversed on successful meeting of the overall completion date, free cash flow during critical

- construction operations is reduced;
- slow resolution of Compensation Events (CE's) resulting in Contractors incurring construction costs arising from CE's but only recovering these much later when settlement is finally reached on the CE.
- Compensation event management through:
- the subjugation of the NEC Project Manager to a Compensation Event panel which excessively delays resolution of the CE. This effectively nullifies the intent of the NEC which mandates the Project Manager to act in the best interest of the project and resolve CE's as they arise;
- Pass on risk to contractor despite the contractual definition of where that risk lies or, in circumstances where risks not contemplated by the contract arise neither of which are priced for by the contractor.
- Then, despite extensive and intense contractor capability qualification, micro management of every aspect of the contractors' performance on site through often externally contracted site management and supervision with little or no experience in the transmission line industry resulting in excessive delays and unnecessary on-site conflict.

The way forward to sustainable

POLASA seeks to engage with its client at the proposed PDP Indaba to flesh out the risks to sustainability of the industry to deliver on the critical transmission line infrastructure and seek solutions to avoid the cyclic nature of work that leads to inevitable job losses.

Further positive stakeholder engagement is being sought by the Association to positively engage with its broader stakeholders including; executive management of Eskom; government ministers and broader industry stakeholders.

It is the local industry's view that it is imperative to create a sustainable industry and that the local industry have indeed shown through empirical evidence that it has the ability and capacity to support the transmission roll-out plan through re-aligned Supplier Development & Localisation.



SAMCRA FEATURE

DENNIS WHITE
DIRECTOR, SAMCRA



COLOUR COATED CLADDING

With the increased use of colour coated metal cladding in the residential market we feel it is important to make consumers aware of what influences the performance of these materials in the different environments experienced within the RSA.

The colour coating on coil used in the manufacturer of cladding can range from a thin layer of paint (5 microns) applied atop a chemically treated metallic coating to a multilayered system comprised of a pretreatment, primer and top coat (18 to 30 microns thick). Whilst the finished colour may initially look the same the overall performance of colour coated products in a given environment is dependent on the combination of the paint system, thickness of individual layers, plus type and thickness of the underlying metal coating.

In addition to providing the colour and finish (gloss, matt or textured) the top coat provides the barrier against the effects of solar radiation such as fading and chalking plus influences the amount of heat absorbed by the cladding. There are numerous formulations for these coatings each designed to meet the rigors of the environment in which they are to be installed. The most common of which are polyester or polyurethane based.

The principal function of the primer coating is protection against corrosion of the underlying metallic coating. This layer needs to be of a thickness that is not penetrated by minor mechanical damage during handling and installation.

Finally the metallic coating protects the underlying steel core particularly at cut edges and deep scratches. The effectiveness of this layer is directly proportional to its thickness and composition in a given environment e.g. galvanised or aluminium/zinc alloy.

Not all paint systems are equal. Performance of paints is directly linked to their formulation plus quantity and quality of the ingredients used. Paint systems with the same formulation composed of lesser quantity and quality of materials will not have the same durability as those made with better quality materials. The extremely high levels of UV radiation experienced in Southern Africa quickly reveal the quality of the pigments and resins used. It is therefore advisable to specify brands with a proven track

record rather than accept an unproven paint system.

Reputable coil manufacturers mark their products with their registered brand name plus details of the type and thickness of the underlying metallic coatings. In addition they provide performance warranties/ guarantees and technical assistance.

Most importantly do not rely on the given name of a colour to ensure you are getting a specified product. In order to ensure you are getting the coating system you require we recommend that you specify the trademarked system plus the related colour when purchasing colour-coated cladding. Furthermore include the provision of a written warrantee/guarantee, issued by the coil producing mill, as a contractual requirement of your purchase.



CONNECT WITH SAMCRA: Contact: Dennis White Email: dennis@saisc.co.za Web: www.samcra.co.za





STEASA NEWS

KEITUMETSE MOUMAKOE (K.M)
DIRECTOR. STEASA



THE STEEL TUBE EXPORT ASSOCIATION OF SOUTH AFRICA

ATTENDS BRICS BUSINESS FORUM

The Steel Tube Export Association of South Africa was cordially invited to take part in the BRICS Business Forum on the 25 July 2018 at the Sandton Convention Centre. The business forum formed one of the pillar collaborations among representatives from the various BRICS nations who were made up of captains of industry, heads of state-owned entities, government leaders, civil society groups and media sectors of the respective nations.

South Africa played host to the 10th BRICS Summit which ran from 25 – 27 July 2018 after taking over the rotational chairship of the emerging economies grouping Brazil, Russia, India, China and South Africa (BRICS). The theme for the 10th BRICS Summit was: "BRICS in Africa: Collaboration for Inclusive Growth and Shared Prosperity in the 4th Industrial Revolution". The theme is reflective of the core priorities of each one of the BRICS members, notably to strive towards the creation of an inclusive society and global partnerships that will bring prosperity to all humankind.

The Minister of Trade and Industry, Dr Rob Davies, Deputy Minister Mr Bulelani Meganiche and the Chairperson of the BRICS Business Council, Dr Iqbal Survé delivered speeches at the opening session of the forum. Their addresses were followed up by four thematic sessions that cover various topics. The Ministers of Trade, Commerce, Industry, Economic Development and External Relations of the five BRICS countries were all panelists in the sessions where "The Role of BRICS in Trade and Investment facilitation amidst a Changing Global Political Economy" was discussed.

The five BRICS countries account for 26 percent of the world's landmass and are home to 43 percent of the world's population. The bloc is composed of emerging markets and the developing world. There has been substantive progress achieved since South Africa joined in 2011, as seen for example in the launch of the Africa Regional Centre of the New Development Bank (NDB) in South Africa. The formation has strengthened its cooperative mechanism for institutional development, most notably witnessed in the

creation of the New Development Bank and the recently launched Africa Regional Centre in Johannesburg.

The business forum provided a platform to showcase the economic prowess of the African continent with a particular focus on advanced manufacturing, energy, technology, rail, aviation, information and communication technology, financial services and beneficiation (agro-processing and mining), as well as to enhance the flow of foreign direct investments from the BRICS bloc into the continent. The Business Forum also provided an opportunity to facilitate the creation of manufacturing value-chains on the African continent, to stimulate dialogue on the utilisation of financing packages offered by the New Development Bank, and to promote synergies with development finance institutions on the continent.

A key commitment needs to be made by the BRICS nations not to trade amongst themselves in products or commodities that are commonly manufactured in the respective nations but rather look to trade in products and commodities that are not produced in their respective countries. This would ensure the sustainability of each countries manufacturing sectors i.e steel and prevent the demise of one nations industry by another.



CONNECT WITH STEASA: Contact: Keitumetse Moumakoe (K.M) Email: keitumetse@steasa.com Web: www.steasa.com

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CADEX SYSTEMS SA PHOTO COMPETITION



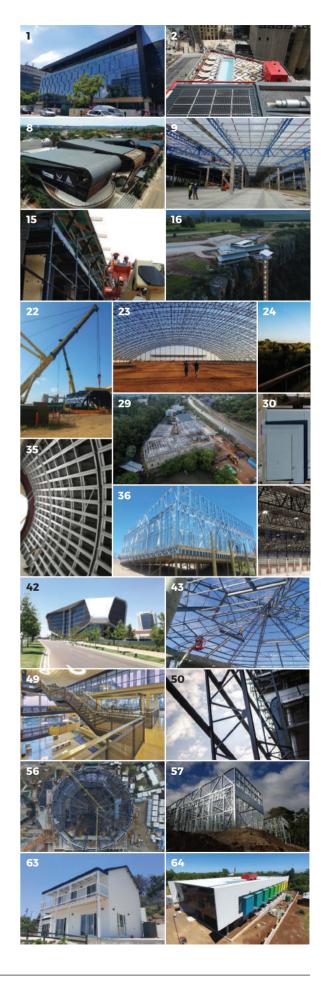
The CADEX Systems SA photo competition is a key feature element of the SAISC Steel Awards. Currently in its 7th year, the photo competition has expanded in order to promote the use of steel to a broader audience. Photographs submitted by project nominators have been shared on the Steel Awards' Instagram account (@SteelAwards) and on members own accounts using the hashtags #SteelAwardsPC and #BeautyOfSteel.

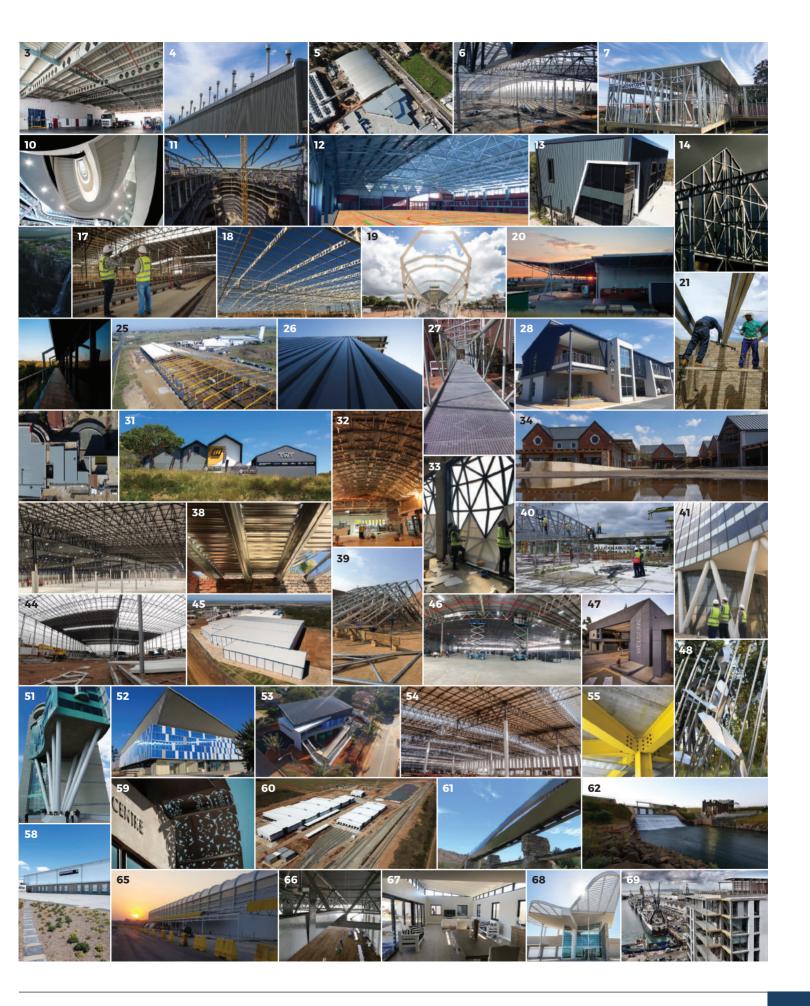
"We're constantly looking at new ways to engage with specifiers and promote the benefits of steel" says Denise Sherman, Marketing Manager of the Southern African Institute of Steel Construction. "Instagram is a very visual platform, and we're excited about the opportunities it presents to showcase the fantastic work our industry produces." she concludes.

The shortlisted and winning photographs will be showcased at the Steel Awards event on 11 October 2018. If you haven't already done so, cast your "vote" for the best photograph by double tapping the image in Instagram. Where images were not specified for the competition by project nominators, the SAISC team picked the top images submitted as part of a Steel Awards entry. These were selected purely for their artistic appeal, and include the following:

- 1 33 Baker Street
- 2 Silo 6
- 3 Ashgate
- 4 BMW Paintshop Re-roof
- 5 Campus Square Shopping Centre
- 6 Cilmor DC Cape Town
- 7 Pienaar
- 8 Club 2
- 9 Corruseal
- 10 Discovery Head Office Sandton
- 11 Discovery Head Office Sandton
- 12 Durban Girls High Facility Centre
- 13 Empowered Spaces Office High Definition Interiors
- 14 Gilson
- 15 Future Africa Campus
- 16 Graskop Gorge
- 17 Gibela New Manufacturing Facility Dunnotar
- 18 Macro Riversands
- 19 Go Durban Integrated Rapid Public Transport Network (IRPTN)(Bus Stations)
- 20 Heineken SA Project BIG
- 21 Ngezi Lounge
- 22 Kusile Absorber Strakes
- 23 Hoopstad Westfert Fertilizers
- 24 House Matthews
- 25 Inoxa
- 26 Invicta
- 27 JRA Gantry
- 28 Kaap Agri
- 29 Libertas Office Park
- 30 Loftus Park
- 31 Momsens Blkes (Two Wheels Trading)
- 32 Limpopo Mall
- 33 Grain Silo Internal during Installation

- 34 St Johns
- 35 Gateway West
- 36 Labus
- 37 Pepkor
- 38 MacEdwards House Extension
- 39 Old Apostolic Church Roof
- 40 Mediclinic Stellenbosch
- 41 PWC Tower
- 42 Gateway West
- 43 Our Lady of Lourdes Rivonia
- 44 Wilcox Road
- 45 Woodlands Dairy
- 46 City Logistics
- 47 Mintek
- 48 Nike The Pulse
- 49 RCL Foods
- 50 Rosebank Link
- 51 Time Square Hotel
- 52 Soweto Sports Centre
- 53 Spectacle Warehouse
- 54 Tradeport City Deep
- 55 Vldeojet Paarl56 Sun Arena
- 57 Schmitz
- 58 Woolworths DC Cape Town
- 59 Victor Daitz Mathematics Centre, KES
- 60 Gibela Train Station Cladding
- 61 Wupperthal Pedestrian Bridge
- 62 Stortemelk Hydropower
- 63 Wilcox Jones
- 64 Pre-eminence Studio
- 65 Macro Riversands
- 66 Mercedes
- 67 Van Rooyen
- 68 Whalecoast Mall
- 69 Silo 3





THE GOOD

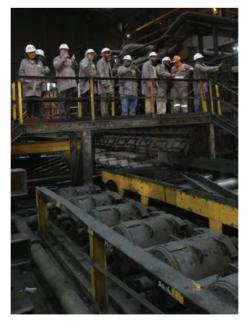
UPDATES FROM OUR TEAM, OUR MEMBERS AND THE BROADER CONSTRUCTION INDUSTRY

NEWS

HSM INDUSTRIAL PARK SITE VISIT



A team from the SAISC, as well as key representatives from the DTI, DMR, ITAC and other stakeholders, visited the Highveld Industrial Park on 21 June. All in attendance were pleasantly surprised and suitably impressed with the incredible progress achieved despite some seemingly insurmountable difficulties. After a brief introduction and inspiring presentation on the trajectory of Highveld Industrial Park, visitors were treated to the "once-in-a-lifetime" experience of seeing the structural mill in operation. These visits have an important influence on the insights and attitude of various Government officials and provide a fantastic opportunity for engagement. The road ahead requires tenacity, innovation and effective stakeholder engagement in order to benefit the local community and the economy as a whole.

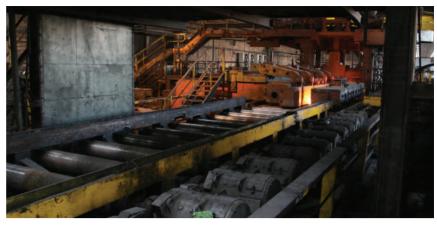




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Let us know what you're celebrating as a company, or what you're proud of that we can share with the industry! **Email denise@saisc.co.za**



















WOMEN OF STEEL



On 17 August the SAISC made history by hosting its first "Women of Steel" event, at the Johannesburg Country Club – Auckland Park. The positive response from ladies across the industry was phenomenal and the event was a resounding success, boasting a full house of professionals, managers, administrative staff and even engineering students from 3 different universities!

"Women of Steel" was initiated by the SAISC as a mechanism for recognising the vital role that women play in the industry, and to encourage them to be proactive about connecting and contributing. SAISC CEO, Paolo Trinchero, delivered a short welcome and implored attendees to engage with the SAISC on an ongoing basis. "We believe that we need a lot more diversity within the SAISC, and that speaks to gender, to race and to the









South Africa that we live in." says Trinchero. The SAISC welcomes input from all individual and company members, and would like to encourage active participation – from grassroots to boardroom level.

The SAISC would like to thank guest speakers Eileen Pretorius (Procurement Director from Aveng Trident Steel), Nicolette Skjoldhammer (Managing Director of Betterect) and Raksha Mahabeer (Entrepreneur and Co-Owner of Summertime Creative Agency) for sharing their insights. The event was punctuated with knowing nods, laughs, tears, and above all inspiration for the future of women of steel.

The impact of the event can be elegantly summed up in the feedback received from final year civil engineering student, Gaelle Mabasa:

"Thank you so much for last weekend's Woman of Steel function. It was very enlightening. I am a very shy girl and I always hate leadership roles or speaking up. Friday gave me a little push. Thank you so much!"

eNCA news produced a short video insert on the event which can be found here: https://www.youtube.com/embed/iTiQ1VSa0rM















SAISC MEMBERS

STEEL PRODUCERS

ArcelorMittal South Africa

Representative: Mohamed Adam Tel +27 16 889 9111 Mohamed.Adam@arcelormittal.com www.arcelormittal.com

Cape Gate

Representative: Martin Friedman Tel: +27 16 980 2121 friedmnm@capegate.co.za www.capegate.co.za

Columbus Stainless (Pty) Ltd

Representative: Lucien Matthews Tel: +27 13 247 2805 matthews.lucien@columbus.co.za www.columbus.co.za

Scaw South Africa (Pty) Ltd

Representative: Dudu Ndlovu Tel: +27 11 621 1524 d.ndlovu@scaw.co.za www.scaw.co.za

STEELWORK CONTRACTORS

Eastern Cape

Industrial Services Group

Representative: Errol Thomson Tel: (043) 707-2700 ethomson@isgeng.co.za www.isgeng.co.za

Uitenhage Super Steel cc

Representative: Ginkel Venter Tel: +27 41 922 8060 ginkel@uss.co.za

Gauteng

African Steel & Associated Projects

Representative: Colin Wilson Tel: + 263 4 621584 ops@thesteelbuildingco.co.zw www.agristructures.co.zw

Betterect (Pty) Ltd

Representative: Nicolette Skjoldhammer Tel: +27 11 762 5203 nicolette@betterect.co.za www.betterect.co.za

Cadcon (Pty) Ltd

Representative: Richard Butler Tel: +27 12 664 6140 richbutler@cadcon.co.za www.cadcon.co.za

Central Welding Works

Representative: Stephen Horwitz Tel: +27 12 327 1718 stephen@cwwpta.co.za

Ferro Eleganza (Pty) Ltd

Representative: Chris Narbonese Tel: +27 12 803 8035 admin@ferroe.co.za www.ferroe.co.za

Energy Fabrication (Pty) Ltd

t/a Genrec Engineering Representative: Sicelo Buthelezi Tel: +27 11 876 2309 sicelo.buthelezi@genrec.co.za www.genreceng.co.za

IVMA Engineering cc

Representative: Mauro Munaretto Tel: +27 11 814 3124 ivma@ivma.co.za www.ivma.co.za

Khombanani Steel (Pty) Ltd

Representative: Marten Spencer Tel: +27 11 975 0647 marten@tasseng.co.za

Louwill Engineering (Pty) Ltd

Representative: Juan Sliep Tel: +27 11 818 5186 juan@louwill.co.za www.louwill.co.za

Magnet Engineering (Pty) Ltd

Representative: Diniz Belo Tel: +27 11 908 3500 magnetgr@global.co.za www.magnetengineering.co.za

MPW Steel Construction (Pty) Ltd

Representative: Nic Tallarico Tel: +27 11 450 3380 nic@mpwtalmac.co.za www.mpwtalmac.co.za

Nancy Engineering

Representative: Ricardo Adriano Tel: +27 11 493 1585 nanceng@mweb.co.za

NJW Engineering Services cc

Representative: Nick Van Deventer Tel: +27 12 541 3931 nick@njw.co.za

SE Steel Fabrication (Pty) Ltd

Representative: David J Essey Tel: +27 11 953 4584 sesteel@icon.co.za

Sectional Poles (Pty) Ltd

Representative: Phil M Koen Tel: +27 12 348 8660 pkoen@sectionalpoles.co.za www.sectionalpoles.co.za

SMEI Projects (Pty) Ltd

Representative: Sandy Pratt Tel: +27 11 914 4101 afpratt@smei.co.za

Spiral Engineering cc

Representative: Colin Kirkland Tel: +27 11 474 9119 colin@spiralengineering.co.za www.spiralengineering.co.za

Steel Band Construction cc

Representative: Steven Smit Tel: +27 11 425 4569 steelband@icon.co.za www.steelbandconstruction.co.za

Tass Engineering (Pty) Ltd

Representative: Tim Tasioulas Tel: +27 11 975 0647 tim@tasseng.co.za www.tass.co.za

Trentbridge Engineering cc

Representative: David Hunter Tel: +27 16 365 5327 trentfab@intekom.co.za

Tudor Engineering & Draughting cc

Representative: Braam Beukes Tel: +27 11 914 5163 tudora@mweb.co.za

Viva Engineering (Pty) Ltd

Representative: Collen Gibbs Tel: +27 11 392 3926 colleng@vivaeng.co.za www.vivaeng.co.za

WBHO Services North

Representative: Andrew Breckenridge Tel: +27 11 265 4000 andrewb@wbho.co.za www.wbho.co.za

KwaZulu-Natal

Avellini Bros (Pty) Ltd

Representative: Pietro Avellini Tel: +27 31 464 0421 ravellini@iafrica.com

DAVGO cc

Representative: Bryce Goss Tel: +27 31 765 2994 bryce@davgo.co.za www.davgo.co.za

Churchyard & Umpleby

Representative: Keith Ball Tel: +27 31 701 0587 keith@candu.co.za www.candu.co.za

Cousins Steel International (Pty) Ltd

Representative: Adam Oldfield Tel: +27 31 312 0992 adam@cousinssteel.co.za www.cousinssteel.co.za

Impact Engineering cc

Representative: Douglas Nidd Tel: +27 32 947 1054 impact@saol.com www.impacteng.co.za

Ogilvie Engineering (Pty) Ltd

Representative: Allan Olive Tel: +27 31 736 1643 allan@ogilvieengineering.co.za

Rebcon Engineering (Pty) Ltd

Representative: Warren Butler Tel: +27 31 705 5851 warren@rebcon.co.za www.rebcon.co.za

SpanAfrica Steel Structures (Pty) Ltd

Representative: James Pinnell Tel: +27 33 346 2555 jamesp@spanafrica.co.za

Steelkon Projects

Representative: Konrad Karcz Tel: +27 82 971 5916 konrad@steelkon.co.za www.steelkon.co.za

Mpumalanga

B & T Steel

Representative: Bryan Wilken Tel: +27 13 665 1914 marketing@btsteel.co.za www.btsteel.co.za

Da Costa Construction Welding cc

Representative: Tobie Oosthuizen Tel: +27 17 647 1130 tobie@dcconstruction.co.za

GPM Services

Representative: Wessel Venter Tel: +27 71 697 5802 / 82 452 9306 wessel@gpms.co.za www.gpms.co.za

Tubular Holdings (Pty) Ltd

Representative: Mike Lomas Tel: +27 11 553 2012 mlomas@tubular.co.za www.tubular.co.za

Steel Services and Allied Industries

Representative: Kevin Harris Tel: +27 18 788 6652/3 kevinh@steelservices.co.za www.steelservices.co.za

North West

Tetra Con (Pty) Ltd

Representative: Kappie Kleinsmit Tel: +27 14 538 0050 kappie@tetracon.co.za

Western Cape

Inenzo Water (Pty) Ltd

Representative: Jan Cloete Tel: +27 21 948 6208 admin@inenzo.com www.inenzo.com

Mazor Steel cc

Representative: Shlomo Mazor Tel: +27 21 556 1555 judy@mazor.co.za www.mazor.co.za

Prokon Services (Pty) Ltd

Representative: Martin Lotz Tel: +27 21 905 4448 martin@prokonservices.co.za www.prokonservices.co.za

Union Structural Engineering Works

Representative: Mike N Papanicolaou Tel: +27 21 534 2251 michael@unionsteel.co.za www.unionsteel.co.za

STEEL MERCHANTS AND SERVICE CENTRES

Gauteng

Allied Steelrode (Pty) Ltd

Representative: Justin Dax Cloete Tel: +27 10 216 0189 justinc@alliedsteelrode.co.za www.alliedsteelrode.com

Aveng Trident Steel

A division of Aveng Africa (Pty) Ltd Representative: Eileen Pretorius Tel: +27 11 861 7102 eileen.pretorius@trident.co.za www.avengtridentsteel.co.za

Macsteel Service Centres SA (Pty) Ltd

Representative: Granville Rolfe Tel: +27 11 871 4677 granville.rolfe@mactrading.co.za www.macsteel.co.za

Macsteel VRN

Representative: Jimmy Muir Tel: +27 11 861 5200 jimmy.muir@vrn.co.za www.vrnsteel.co.za

NJR Steel Services (Pty) Ltd

Representative: Greg Mollett Tel: +27 11 477 5515 gmollett@njrsteel.co.za www.njrsteel.co.za

SSAB SA (Pty) Ltd

Representative: Raymond Rautenbach Tel: +27 11 724 5046 Raymond.Rautenbach@ssab.com www.ssab.com

Stewarts & Lloyds Holdings (Pty) Ltd

Representative: Mandy de Lange Tel: +27 11 553 8500 mandyd@sltrading.co.za www.stewartsandlloyds.co.za

TW Profile Services (Pty) Ltd

Representative: Leon Coetzee Tel: +27 894 3031 leonc@twprofile.co.za www.twprofile.co.za

KwaZulu-Natal

BSi Steel Limited

Representative: Keith Whiting Tel: +27 11 861 7611 keith.whiting@bsisteel.com www.bsisteel.com

Macsteel Trading Durban

Representative: Marcus Nel Tel: +27 31 913 2600 marcus.nel@mactrading.co.za

Western Cape

Macsteel Trading Cape Town

Representative: Maria Francis Tel: +27 21 950 5506 maria.francis@mactrading.co.za

Transcape Steels (Pty) Ltd

Representative: James van Rooyen Tel: +27 21 534 3211 jamesvr@transcape.co.za www.transcapesteels.co.za

STEEL PRODUCT MANUFACTURERS

Almec Manufacturing cc

Representative: Joan Basson Tel: +27 18 469 3202 joanalmec@gds.co.za www.almecmanufacturing.co.za

Amanzi Storage Solutions (Pty) Ltd

Representative: Duane Ramos Tel: +27 11 493 1197 duane@amanziss.co.za

AQUADAM (Pty) Ltd

Representative: Willie Palm Tel: +27 12 810 0940 willie@aquadam.co.za www.aquadam.co.za

Augusta Steel (Pty) Ltd

Representative: Nico Erasmus Tel: +27 11 914 4628 nico@augustasteel.co.za www.augustasteel.co.za

Capital Star Steel SA

Representative: Pierre Willemse Tel: +27 12 347 5595 pwillemse@capitalstarsteel.co.za www.capitalstarsteel.co.za

Ficep SpA

Representative: Nick Blackwell Tel: +39 0332 876 111 nick.blackwell@ficep.it marketing@ficep.it www.ficepgroup.com

George Stott & Co (Pty) Ltd

Representative: Johan Venter Tel: +27 11 474 9150 johanv@geostott.co.za www.geostott.co.za

Grating World (Pty) Ltd

Representative: Dean Charsley Tel: +27 11 452 1150 dean@styria.co.za www.gratingworld.co.za

Mentis Sales

Representative: Dean Weil Tel +27 11 255 3200 deanw@mentis.co.za www.mentis.co.za

Project Materials Southern Africa (Pty) Ltd

Representative: Neil Myburgh Tel: +27 11 465 4247 Tel: +27 79 898 2086 neil.myburgh@pmpiping.com

Robor (Pty) Ltd

Representative: Glen Nolan Tel: +27 11 971 1600 glenn@robor.co.za www.robor.co.za

Rufco Engineering

Representative: Gandeloro Ruffini Tel: +27 53 313 1651 info@rufco.co.za www.rufco.co.za

SBS Water Systems (Pty) Ltd

Representative: Hlengiwe Matiwane Tel: +27 31 716 1820 hlengiwe@sbsmarketing.co.za www.sbsgroup.co.za

Swasap (Pty) Ltd

Representative: Derek Anderson Tel: +27 11 873 6666 derek@swasap.com www.swasap.co.za

Vital Engineering & Angus Mcleod (Pty) Ltd

Representative: Dodds B Pringle Tel: +27 11 898 8500 dodds@gratings.co.za www.gratings.co.za

Void Pro Manufacturing (Pty) Ltd

Representative: Andries Botha Tel: 0861 106 275 info@voidcon.co.za www.voidcon.co.za

CORROSION AND FIRE PROTECTION TO STEEL

ARMCO Superlite (Pty)Ltd

Representative: Anthonie de Wit Tel: +27 11 974 8511 dewit.anthonie@armco.co.za www.armco.co.za

Corrosion Institute of Southern Africa

Representative: Donovan Slade Tel: +27 10 224 0761 president@corrisa.org.za www.corrisa.org.za

Hot Dip Galvanizers Association Southern Africa

Representative: Robin Clarke Tel: +27 11 456 7960 hdgasa@icon.co.za www.hdgasa.org.za

Pyro-Cote cc

Representative: Trevor Miller Tel: +27 11 864 5205 pyrocotejhb@pyrocote.co.za www.pyrocote.co.za

CRANES

RGM Cranes

Representative: lan O'Hara Tel: +27 11 422 3690 ian@rgm.co.za www.rgmcranes.com

CONSULTING ENGINEERS, DETAILERS AND PROJECT MANAGERS

Gauteng

AECOM SA (Pty) Ltd

Representative: Lara Lombard Tel: +27 12 421 3832 Lara.Lombard@aecom.com www.aecom.co.za

Anglo Operations Ltd

Representative: Kurt Waelbers Tel: +27 11 638 9111 kurt.waelbers@angloamerican.com www.angloamerican.com

Aurecon South Africa (Pty) Ltd

Representative: Tomme Katranas Tel: +27 11 305 0300 Tomme.Katranas@aurecongroup.com www.aurecongroup.com

Arup (Pty) Ltd

Representative: Kimon Comninos Tel: +27 11 218 7739 kimon.comninos@arup.com www.arup.com

Bigen Africa Services (Pty) Ltd

Representative: Daneel Strydom Tel: +27 12 842 8840 daneel.strydom@bigenafrica.com www.bigenafrica.com

Blue Bear Detailing Projects

Representative: Barry De Beer Tel: +27 72 038 7870 Tel: +27 83 296 7408 barry@bluebeargroup.com

Clearspan Structures (Pty) Ltd

Representative: Jeff Montjoie Tel: +27 11 823 2402 jmo@clearspan.co.za www.clearspan.co.za

Consultaurie Design (Pty) Ltd

Representative: Mark Phillips Tel: +27 11 234 6787 mark@ctauri.com

DRA Projects (Pty) Ltd

Representative: Ryan Males Tel: +27 11 086 2325 ryan.males@draglobal.com www.draglobal.com

EDS Engineering Design Services (Pty) Ltd

Representative: Hergen Fekken Tel: +27 12 991 1205 hergen@edseng.co.za www.edseng.co.za

Fluor South Africa (Pty) Ltd

Representative: Colin Morris Tel: +27 11 519 6000 colin.morris@fluor.com www.fluor.com

Hatch Africa (Pty) Ltd

Representative: Morne Fourie Tel: +27 11 239 5422 morne.fourie@hatch.com www.hatch.com

Imbabala Contractors

Representative: Michael Mamotte Tel: +27 11 902 2952 mikem@imbacontra.co.za www.imbacontra.co.za

International Drafting Services (Pty) Ltd

Representative: Frans Vivier Tel: +27 11 472 4466 frans@idrafting.co.za

KRU Detailing cc

Representative: Johann Strauss Tel: +27 11 462 8296 johann@kru.co.za

Malani Padayachee and Associates (Pty) Ltd

(shortened version MPA (Pty) Ltd)
Representative: Malani PadayacheeSaman
Tel: +27 11 781 9710
admin@mpaconsulting.co.za

Pollock Williams James & Partners cc

Representative: Tim James Tel: +27 11 679 2282 pwp@iafrica.com

www.mpaconsulting.co.za

Roytec Global (Pty) Ltd

Representative: Bjorn Leistner Tel: +27 11 608 0000 Bjorn.Leistner@roytec.co.za www.roytec.co.za

Tenova TAKRAF Africa

Representative: Leon Olwage Tel: +27 11 201 2542 leon.olwage@tenova.com www.takraf.com

VLE Draughting (Pty) Ltd

Representative: Benandi Page Tel: +27 65 876 8840 benandi@vledraughting.co.za www.vledraughting.co.za

WorleyParsons RSA

Representative: Ian Robinson Tel: +27 11 218 3000 ian.robinson@worleyparsons.com www.worleyparsons.com

WSP Group Africa (Pty) Ltd

Representative: John Truter Tel: +27 11 300 6000 john.truter@wspgroup.co.za www.wspgroup.co.za

Kwa7ulu-Natal

DMV Richards Bay (Pty) Ltd

Representative: Le Roux Fourie Tel: +27 35 789 1828 admin@dmvrb.co.za

Gavin R Brown & Associates

Representative: Gavin R Brown Tel: +27 31 202 5703 gavbrown@global.co.za www.gavbrown.co.za

SDN Drawing Services cc

Representative: Sagren Govender Tel: +27 31 464 8186 sdndrawings@gmail.com

Young & Satharia Structural & Civil Engineering

Representative: Rob Young Tel: +27 31 207 7252 rob@yands.co.za www.yands.co.za

Mpumalanga

Bulkcon cc

Representative: Desmond Enslin Tel: +27 17 811 7520 desmond@bulkcon.co.za www.bulkcon.co.za

ljubane Projects (Pty) Ltd

Representative: Willie Greyling Tel: +27 13 243 4390 willie@glps.co.za www.glps.co.za

J.A.M.S. Geological Services cc

Representative: Pieter Vermeulen Tel: +27 17 632 2990 pieter.vermeulen130969@gmail.com

Lategan Bouwer Civil & Structural Engineers

Representative: Anton Van Dyk Tel: +27 17 634 4150 avandyk@latbou.co.za www.latbou.co.za

Western Cape

By Design Consulting Engineers

Representative: Barend Oosthuizen Tel: +27 83 287 1995 barend@bydesign.org.za www.bydesign.org.za

Kantey & Templer (Pty) Ltd

Representative: Chris Von Geusau Tel: +27 21 405-9600 chrisvg@kanteys.co.za www.kanteys.co.za

Mondo Cane cc

Representative: Rob Chalmers Tel: +27 21 852 2447 rob@mondocane.co.za www.mondocane.co.za

SMEC South Africa (Pty) Ltd

Representative: John Anderson Tel: +27 21 417 2900 john.anderson@smec.com www.smec.com

International

Walsh Draughting Services

Representative: Donal Walsh Tel: 00 353 57 8624913 walshds@eircom.net www.walshds.ie

CIVIL ENGR CONTRACTORS

Maccaferri SA (Pty) Ltd

Representative: Adriano Gilli Tel: 087 742 2710 Adriano.gilli@maccaferri.co.za www.maccaferri.co.za

SUPPLIERS OF GOODS AND SERVICES TO THE INDUSTRY

C. Steinweg Bridge

Representative: Willem Fourie Tel: +27 11 625 3000 Willem.Fourie@za.steinweg.com

Cadex Systems SA (Pty) Ltd

Representative: John Swallow Tel: +27 11 463 1857 johnswallow@cadexsa.com www.cadexsa.com

Bentley Systems South Africa (Pty) Ltd

Representative: Tennyson Maimbo Tel: +27 11 253 3016 tennyson.maimbo@bentley.com www.bentley.com

Dram Industrial Painting Contractors

Representative: Martin Gossayn Tel: +2711 660 7594 admin@dram.co.za www.dram.co.za

First Cut (Pty) Ltd

Representative: Steve Van Wyk Tel: +27 11 614 1112 stevev@firstcut.co.za www.firstcut.co.za

Lindapter International

Representative: Louise Foster Tel: +44 (0) 1274 521444 Ifoster@lindapter.com www.lindapter.com

Peddinghaus Corporation of South Africa

Representative: Miranda Dutour Tel: +1 815 937 3800 miranda-dutour@peddinghaus.com www.peddinghaus.com

Retecon (Pty) Ltd

Representative: Hans-Peter Neth Tel: +27 11 976 8600 neth@retecon.co.za www.retecon.co.za

SGS Metlab (Pty) Ltd

Representative: Jacoline Botha Tel: +27 11 917 5173 jacoline.botha@sgs.com www.metlab.co.za

Southey Holdings (Pty) Ltd

Representative: Viloshini Pillay Tel: +27 11 579 4600 vpillay@southey.co.za www.southey.contracting.co.za

Timrite (Pty) Ltd

Representative: Deon Kruger Tel: +27 11 475 1600 d.kruger@timrite.co.za www.timrite.co.za

EMERGING/DEVELOPING

Four Tops Engineering Service cc

Representative: Nyameko Ntsulumbana Tel: +27 72 229 9128 fourtopseng@vodamail.co.za

ISILO Stee

Representative: Michael Perimal Tel: +27 11 861 7612 michael.perimal@isilosteel.co.za www.isilosteel.co.za

Zamani Engineering Services cc

Representative: David Nkosi Tel: + 27 13 690 1978 david@zamaniengineering.co.za

SASFA MEMBERS MAJOR MATERIAL SUPPLIERS

ArcelorMittal South Africa

Representative: Melvin Hickers Tel: +27 16 889 4046 Melvin.hickers@arcelormittal.com www.arcelormittal.com

Marley Building Systems

Representative: Annemarie Robertson Tel: +27 82 568 1358 annemarie.robertson@marlev.co.za

Saint-Gobain Gyproc SA (Pty) Ltd

Representative: Atisha.Gopichund-Lutchman Tel: +27 12 657 2800 Atisha.Gopichund-Lutchman@saintgobain.com www.gyproc.co.za

Saint-Gobain Isover

Representative: Atisha.Gopichund-Lutchman Tel: +27 12 657 2800 Atisha.Gopichund-Lutchman@saintgobain.com www.isover.co.za

OTHER MATERIAL AND COMPONENT SUPPLIERS

Izinga Roofing (Pty) Ltd

Representative: Jerred Micholson Tel: +27 (031) 466 1968 jerred@izinga-sa.com www.izinga-sa.com

Kare Industrial Suppliers

Representative: Reitze Hylkema Tel: +27 11 941 3170 reitze@kare.co.za www.kare.co.za

LSFB MANUFACTURERS

AV Light Steel

Representative: Vincent Bender Tel: +27 79 954 1374 vincent@avlightsteel.co.za www.avlightsteel.co.za

Dezzo Roofing (Pty) Ltd

Representative: Brandon Harding Tel: +27 87 057 8550 brandon@dezzoroofing.co.za www.dezzoroofing.co.za

Kwikspace Modular Buildings Ltd

Representative: David van Zyl Tel: +27 11 617 8000 davidvz@kwikspace.co.za www.kwikspace.co.za

MiTek Industries South Africa (Pty) Ltd

Representative: Uwe Schluter Tel: +27 11 237 8700 marketing@mitek.co.za www.mii.com/southafrica

Rajan Harinarain Construction (Pty) Ltd

Representative: Rajan Harinarain Tel: +27 74 184 8881 rhconstruction1@gmail.com www.rhconstruction1.co.za

Razorbill Properties 127 (Pty) Ltd

Representative: Vernon van der Westhuizen Tel: +27 16 423 1749/50 vernon@razorb.co.za www.razorb.co.za

Simmers and Jack (Pty) Ltd

Representative: Daniel Watson Tel: +27 11 706 6552 daniel.w@simmers.co.za www.simmers.co.za

Siteform Roofing and Framing

Representative: Johan Fourie Tel: +27 51 451 2166 info@siteform.co.za www.siteform.co.za

Steel Frame Developments

Representative: Ryan Minietti Tel: +27 83 296 3078 ryan@steelfd.co.za www.steelfd.co.za

Trumod (Pty) Ltd

Representative: Peter Thompson Tel: +27 11 363 1960 peter@trumod.co.za www.trumod.co.za

Zambezi Roofing & Steel

Representative: David Gale Tel: +260 211 287684 / +27 76 301 5096 david.gale@zambezi-roofing.com www.zambezi-roofing.com

SERVICE CENTRES AND DISTRIBUTORS

Framecad

Representative: Sello Tlhotlhalemajoe Tel: +27 11 064 5759 SelloT@framecad.com www.framecad.com

Global Innovative Building Systems

Representative: Tammy Bywater Tel: +27 11 903 7080 tammy@gissa.co.za www.gissa.co.za

Global Specialised Systems KZN (Pty) Ltd

Representative: Thys Visagie Tel: +27 31 468 1234 gmkzn@globaldbn.co.za www.globalsystems.co.za

Scottsdale

Representative: Steve Cullender Tel: +27 11 486 4195 steve.cullender@scottsdalesteelframes.com www.scottsdalesteelframes.com

United Fibre Cement Company

Representative: Leon Bekker Tel: +27 21 933 0052 leon@ufcc.co.za www.ufcc.co.za

DESIGN CONSULTANTS

By Design Consulting Engineers

Representative: Barend Oosthuizen Tel: +27 21 883 3280 barend@bydesign.org.za

C-Plan Structural Engineers (Pty) Ltd

Representative: Cassie Grobler Tel: +27 11 472 4476 kc@cplan.co.za www.cplan.co.za

Hage Project and Consulting Engineers

Representative: Gert Visser Tel: +27 16 933 0195 gert@hage.co.za

Hull Consulting Engineers cc

Representative: Mike Hull Tel: +27 11 468 3447 hull@iafrica.com

Martin & Associates

Representative: lan Upton Tel: +27 31 266 0755 ibu@martinjw.co.za

ASSOCIATE MEMBERS

AAAMSA Group

Representative: Hans Schefferlie Tel: +27 11 805 5002 aaamsa@iafrica.com

ABSA Bank

Representative: Deon Brits Tel: +27 11 350 3287 deonbr@absa.co.za

CSIR (Built Environment)

Representative: Llewellyn Van Wyk Tel: +27 12 841 2677 lvwyk@csir.co.za www.csir.co.za

HDGASA

Representative: Robin Clarke Tel: +27 11 456 7960 robin@hdgasa.org.za www.hdgasa.org.za

IZASA

Representative: Rob White Tel: +27 83 456 4989 robwhite@icon.co.za www.izasa.org

NASH New Zealand

Representative: Gordon Barratt www.nashnz.org.nz

NASH Australia

Representative: Ken Watson www.nash.asn.au

Pretoria Institute for Architecture

Representative: Mauneen Van Wyk Tel: +27 12 341 3204 admin.pia@saia.org.za www.saia.org.za

Standard Bank

Representative: Johann Strydom Tel: +27 11 631 5977 Johanjj.strydom@standardbank.co.za

Steel Framing Alliance (USA)

Representative: Mark Nowak www.steelframingalliance.com

University of Cape Town

Department of Civil Engineering Representative: Sebastian Skatulla Tel: +27 21 650 2595 sebastian.skatulla@uct.ac.za

University of Pretoria

Faculty of Engineering

Representative: Riaan Jansen Tel: +27 12 420 4111 riaan.jansen@up.ac.za

University of the Witwatersrand

School of Mechanical Engineering Representative: Terrance Frangakis Tel: +27 11 717 7333 terrance.frangakis@wits.ac.za

BUILDING INDUSTRY

Ambient Contracting Services (Pty) Ltd

Representative: Carlos Ferreira Tel: +27 11 663 9100 acstenders@ambient.co.za www.abecontracting.co.za

Bakhusele Business Solutions (Pty) Ltd

Representative: Edwin Mkhabela Tel: +27 13 755 4480 edwin@bakhusele.co.za www.bakhusele.co.za

Container Consumables & Industrial Supplies

Representative: Leslie Sivasunker Tel: +27 32 533 2266 lez@containerconsumables.co.za

Delca Systems (Pty) Ltd

Representative: Dr Mercy Mafara Tel: +27 31 266 5900 info@delca.co.za www.delca.co.za

E4 Construction (Pty) Ltd

Representative: David Welsh Tel: +27 82 688 9988 david@e4construction.com www.e4construction.com

Futurecon

Representative: Gerrit Burger Tel: +27 82 826 0948 gerrit@futurecon.co.za

Group Five Housing (Pty) Ltd

Representative: Paul Thiel Tel: +27 10 060 1555 pthiel@groupfive.co.za www.groupfive.co.za

Halifax Projects

Representative: Marc Barnfather Tel: +27 79 852 8572 marc@umgeniprojects.co.za

Lakeshore Trading 102 cc Representative: Linky Delisile

Tel: +27 31 706 3695 deli@lakeshore.co.za

Ohlhorst Africa LBS (Pty) Ltd

Representative: Sergio Ferreira Tel: +27 12 327 2411 info@ohlhorst.co.za www.ohlhorst.co.za

Rancor

Representative: Charl van Zyl Tel: +27 82 881 6879 charl@rancor.co.za www.rancor.co.za

Rapid Build Technologies (Pty) Ltd

Representative: Andre Schlunz Tel: +27 72 647 2533 andre@rbtafrica.com www.rapidbuildtechnologies.co.za

Shospec (Pty) Ltd

Representative: Bjorn Kahler Tel: +27 33 386 0100 bjorn@shospec.co.za www.shospec.co.za

SMC Africa

Representative: Andrew Dewar Tel: +27 82 491 2717 andrew@smcafrica.com www.smcafrica.com

Stag Homes cc

Representative: John Schooling Tel: +27 21 794 0904 johns@stagprop.com www.stagprop.com

Top Plan

Representative: Sarel Oberholzer Tel: +27 21 903 3189 info@topplan.co.za www.topplan.co.za

Zamadunga Business Enterprise

Representative: Thandi Ngcobo Tel: +27 31 701 5431 info@zamadunga.co.za

Zookie Construction and Projects

Representative: Reshoketswe Nakene Tel: +27 12 767 8820 zookiecp@gmail.com

SAMCRA MEMBERS

ALLIED PRODUCTS

Ash & Lacy South Africa (Pty) Ltd

Representative: Dion Marsh Tel: +27 11 792 9283 dion.marsh@ashandlacv.com

Butyl Seal (Pty) Ltd

Representative: Ken Atkinson Tel: +27 11 462 1840 atkinsonkh@gmail.com www.butylseal.co.za

Butyl Technology (Pty) Ltd

Representative: James Graham Tel: + 39 976 1114 james@butech.co.za www.butech.co.za

GCF Projects

Representative: Dale McLeod Tel: +27 855 1243 info@gcfprojects.co.za www.gcfprojects.co.za

Kare Industrial Suppliers (Pty) Ltd

Representative: Reitze Hylkema Tel: +27 11 334 0922 reitze@kare.co.za www.kare.co.za

PIA Solar SA (Pty) Ltd

Representative: Colin Muller Tel: +27 41 366 1911 colin.muller@piasolar.com www.piasolar.com

Saint Gobain Construction Products South Africa (Pty) Ltd

Isover Division

Representative: Bernard Asquith Tel: +27 12 657 2800 bernard.asquith@saint-gobain.com www.isover.co.za

CONTRACTOR

Chartwell Roofing (Pty) Ltd

Representative: Mike Read Tel: +27 83 625 1557 mike@chartwellroofing.co.za www.chartwellroofing.co.za

Doublejack Construction (Pty) Ltd

Representative: Jason Knight Tel: +27 11 828 3453 jason@doublejack.co.za

Roofline (Pty) Ltd

Representative: Terry Thorp Tel: +27 11 900 3250 tthorp@roofline.co.za www.roofline.co.za

Tate & Nicholson

A division of Southey Holdings (Pty) Ltd Representative: Martin Bakker Tel: +27 11 464 0910 mbakker@tn.co.za www.southey.co.za

PRODUCER/MILL

ArcelorMittal South Africa

Representative: Jan Kotze Tel +27 16 889 9111 jan.kotze@arcelormittal.com www.arcelormittal.com

SAFAL Steel (Pty) Ltd

Representative: Sally Stromnes / Raghu Raghuram Tel: +27 11 944 6800 / 31 782 5569 sally.stromnes@safalgroup.com / raghu.ram@safalgroup.com www.safalgroup.com

PROFILER/MANUFACTURER

Global Roofing Solutions

a Division of Consolidated Steel Industries (Pty) Ltd

Representative: Johan van der Westhuizen Tel: +27 11 898 2902 johan@globalroofs.co.za www.global-roofing-solutions.co.za

Heunis Steel (Pty) Ltd

Representative: Anton Heunis Tel: +27 12 372 0021 anton@heunis.co.za www.heunis.co.za

Macsteel Roofing

Representative: Lance Comber Tel: +27 11 878 7500 Lance.Comber@macroofing.co.zaa

Safintra South Africa (Pty) Ltd

Representative: Rainer Straussner Tel: 0861 723 542 rainer.straussner@safalgroup.com www.safintra.co.za

POLASA MEMBERS

Ablon Construction cc

Representative: Mel Steyn Tel: +27 57 352 1081 mel@ablon.co.za www.ablon.co.za

ARB Electrical Wholesalers

Representative: Jason Burke Tel: +27 31 910 0201 jasonb@arb.co.za www.arb.co.za

Avlock International

Representative: Tommy Holmes Tel: +27 11 748 7000 tommy@avlock.co.za www.avlock.co.za

Babcock Ntuthuko Powerlines

Representative: Gary Whalley Tel: +27 11 739 8240 gary.whalley@babcock.co.za www.babcock.co.za

CIS Engineering

Representative: Christo Marais Tel: +27 16 422 0082 christo@cisengineering.co.za www.cisengineering.co.za

Consolidated Power Projects

Representative: Mduduzi Mabaso Tel: +27 11 805 4281 Mduduzi.Mabaso@concogrp.com www.conco.co.za

Cullin Africa

Representative: Krish Chetty Tel: +27 11 848 1400 krish@cullin.co.za www.cullin.co.za

Down Low Construction & Projects 56 cc

Representative: Calvin Mutize Tel: +27 84 993 5599 dlc56projects@gmail.com www.dlcgroup.co.za

Dyambwini Construction & Project Solutions

Representative: Vincent Kanyongolo Tel: +27 12 332 5898 vincent@dyambyini.co.za www.dyambwini.co.za

EBM

Representative: Roger Martin Tel: +27 11 2880000 roger@ebm.co.za www.ebm.co.za

IMAB Power

Representative: Fleming Adamson Tel: +27 11 814 6248 fleming.adamson@imab.co.za www.imab.co.za

Jewll Industries (Pty) Ltd

Representative: Wilhelm van der Lingen Tel: +27 86 153 9550 wim@jewll.co.za www.jewll-flameproof.com

Jyoti Structures Africa

Representative: Bruno DalBianco Tel: +27 11 586 0100 bdalbianco@jyotiafrica.com www.jsl.co.in

KEC International Limited

Representative: Sherwin Chetty Tel: +27 11 018 4000 chettysb@kecrpg.com www.kecrpg.com

McWade Productions

Representative: Marc Hindle Tel: +27 11 316 2262 march@mcwade.co.za www.mcwade.co.za

Metoress

Representative: Sagren Moodley Tel: +27 11 825 5334 sagren@metpress.co.za www.metpress.co.za

Mkhulu Electro Distribution Projects

Representative: Zola Hlatshwayo Tel: +27 11 814 4169 systems@mkhulu-edp.co.za

Murray & Roberts Power & Energy

Representative: Gordon Sneddon Tel: +27 11 372 8585 gordon.sneddon@murrob.com www.murrob.com

Pfisterer

Representative: Geoff Myburgh Tel: +27 33 397 5409 geoff.myburgh@pfisterer.co.za www.pfisterer.co.za

Powerpro Technologies & Training Facility

Representative: Ernest Coetzee Tel: +27 11 739 4200 ernest@powerpro.co.za www.powerpro-training.com

Preformed Line Products

Representative: John Buyers Tel: +27 33 397 5800 johnb@preformedsa.co.za www.preformedsa.co.za

Ramagale Holdings

Representative: Peter Ramaite Tel: +27 11 234 4045 peter@ramagale.co.za www.ramagale.co.za

Resolute Environment Solutions

Representative: Alfred Ayres Tel: +27 72 146 6937 alfred@resoluteenviro.co.za www.resoluteenviro.co.za

SCAW South Africa (Pty) Ltd

Representative: Morgan Pillay Tel: +27 11 876 2644 mpillay@scaw.co.za

Sicame South Africa

Representative: Jean-Luc Lagarde Tel: +27 21 511 8267 jll@iafrica.com

Siyazama Professional Management Services

Representative: Enrica Furlan Tel: +27 11 814 4169 info@siyazama-training.co.za

Structa Technology

Representative: Hercules Rossouw Tel: +27 16 362 9100 hercules@structa.co.za www.structa.co.za

Tel-Screw Products

Representative: Ronald Teleng Tel: +27 11 917 9710 info@telscrew.co.za ronnieteleng@me.com www.telscrew.co.za

TESMEC SA

Representative: Simone Fiorini Tel: +27 11 397 2386 info@tesmecsa.co.za www.tesmecsa.co.za

The Aluminium Federation of South Africa

Representative: Mark Krieg Tel: +27 11 455 5553 markk@afsa.org.za www.afsa.org.za

Trans-Design

Representative: Robin Page Tel: +27 83 254 6598 robin@trans-design.co.za

Tricom Structures -

A subsidiary of Robor Representative: David van Staden Tel: (011) 971 1816 DvStaden2@tricom1.co.za www.tricom1.co.za

ASTPM & STEASA MEMBERS

Arcelor Mittal South Africa

Representative: Hannes Basson Tel: +27 16 889 3419 hannes.basson@arcelormittal.com www.arcelormittalsa.com

ArcelorMittal SA Seamless Tube Division

Representative: Roche Bester/ Nigo Dladla Tel: +27 16 450 4220 roche.bester@arcelormittal.com www.arcelormittal.com

Augusta Steel (Pty) Ltd

Representative: Paul Bowman/ Nico Erasmus Tel: +27 11 914 4628 paulb@augustasteel.co.za www.augustasteel.co.za

Aveng Trident Steel Tube Division

Representative: Peter Curr Tel: +27 11 389 8752 peter.curr@trident.co.za www.avengsteel.com

Barnes Tubing Industries (Pty) Ltd

Representative: Andy Smith Tel: +27 11 923 7340 andy@barnestubing.co.za www.barnestubing.co.za

Garsin Engineering

Representative: Walter Novelli Tel: +27 11 828 9732 walter@garsin.co.za www.garsin.co.za

Group Five Pipe

Representative: Gerald Blackburn Tel: +27 21 386 1923 gblackburn@groupfivepipe.co.za www.g5p.co.za

Hall Longmore (Pty) Ltd

Representative: Kenny Van Rooyen Tel: +27 11 874 7300 kenny.vanrooyen@hall-longmore.co.za www.hall-longmore.co.za

Honingcraft (Pty) Ltd

Representative: Gerhard Hauptfleisch Tel: +27 11 824 5320 gerhard@honingcraft.co.za www.honingcraft.co.za

Macsteel Tube and Pipe (Pty) Ltd

Representative: Werner Petrick Tel: +27 11 897 2100 werner.petrick@mactube.co.za www.macsteel.co.za

New Concept Mining

Representative: Charles Hart/ Morne Smuts Tel: +27 11 494 6000 charlesh@ncm.co.za www.ncm.co.za

Pro Roof Steel Merchants (Pty) Ltd

Representative: Peter Potgieter Tel: +27 16 450 5800 peter@proroof.co.za www.proroof.co.za

Unispan Manufacturing

Representative: Thomas Spykerman Tel: +27 11 462 8965 thomass@uni-span.co.za www.uni-span.co.za





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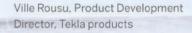
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