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**JUNE / JULY 2018** VOL. 42 ISSUE 3







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INDICATES A SURGE IN
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### PUBLISHED BY:

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### SAISC MANAGEMENT TEAM:



### **SAISC COMMENT**

PAOLO TRINCHERO CEO. SAISC

### A WAY FORWARD, TOGETHER



# "IT IS NOW MORE IMPORTANT THAN EVER FOR MEMBER COMPANIES TO GET INVOLVED AT THE CEO LEVEL TO ENSURE THAT CRITICAL ISSUES ARE BROUGHT TO THE ATTENTION OF ALL STAKEHOLDERS."

It seems that the steel industry just can't find momentum. The SAISC, in conjunction with its membership, decided to arrange an industry mobilization meeting in May this year. We have all been working on a number of initiatives with our members, other associations and government departments but we have so far been unable to translate our efforts into positive growth across the sector.

It is now more important than ever for member companies to get involved at the CEO level to ensure that critical issues are brought to the attention of all stakeholders. There has been large scale restructuring across the sector with significant job losses being reported by almost all members. Unfortunately it will take time for initiatives and policy certainty to translate into GDP growth.

### What do we do in the interim?

We all know that our industry is a can do industry. We are self-reliant and we know we have to reinvent and regrow the industry. We have identified a number of priorities and will be launching a CEO's forum going forward to drive some of the initiatives together with other associations and stakeholders.

We would like to encourage our members to contribute to the conversation, particularly with respect to the urgent priorities that need to be attended to. I have highlighted a few below but there are many more. The idea is for each and every association to work together and share initiatives to address these critical challenges.

- Low demand and a significant drop in the size of the market.
- 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.

SAISC fabricator issues need some special attention and include lack of payment, contractual and measurement issues and availability of steel, steel sections and 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

Eating the proverbial elephant is best done one spoon at a time. Of course, it helps if you have many hands, wielding many spoons, feeding many mouths, chewing in unison.

As people with a passion for the steel construction industry, we have a mammoth task ahead of us (see what I did there? Can I have a drum roll please somebody?). There are some enormous challenges, but we need to address them, and we need to do it together.

It may seem like it's all doom and gloom, but it isn't. There are many proactive, tenacious and innovative people doing great things in our industry.

Let's shift perspective for a second to Steel Awards 2018. We have received a whopping 74 entries for this year's awards, and will be giving each project its time to shine between now and 11 October! Good luck to all who nominated a project. Keep an eye out on our website, the Steel Construction Journal and our social media sites to see the great things people of steel are accomplishing.

# IT MAY SEEM LIKE IT'S ALL DOOM AND GLOOM, BUT IT ISN'T. THERE ARE MANY PROACTIVE, TENACIOUS AND INNOVATIVE PEOPLE DOING GREAT THINGS IN OUR INDUSTRY.

The current industry challenges we're facing require big picture thinking and focus on a common goal. Not sure where to start or how to get involved? Connect with the SAISC. Let's have a cup of coffee together. Let's talk. Our events are always a great opportunity to connect, both with the SAISC team, and your fellow steel construction industry elephant eaters.

### **SAISC CALENDAR** 2018

### **TECHNICAL TRAINING**

16 - 17 July Structural Inspection and

**Maintenance Management for** 

Mines and Plants (JHB) R6500 (SAISC Members) R7500 (Non Members)

Presented by Geoff Krige

(2 CPD Points)

#### **BUSINESS AND SOFT SKILLS TRAINING**

(1/2 Day workshops - R 800p/p)

29 June Writing for Digital Platforms

1 July Mobile Photography: Tips for

taking quality photos onsite

23 August Introduction to Public

**Relations for the Steel Industry** 

7 September Social Media for the Built

Environment

### **EVENTS**

20 June #Re\_Construction: AR and VR

in the Built Environment (Informal networking event -

7 - 9pm)

20 July Industry Mobilisation Breakfast

(JHB)

17 August Women in Construction -

High Tea Event (1/2 Day JHB)

13 September Business Development

Breakfast: Building a Resilient

**Business** 

11 October Steel Awards (JHB/CT/DBN)

### PROJECT **PROFILES**





### METAL CLADDING AND LIGHT STEEL FRAME BUILDING







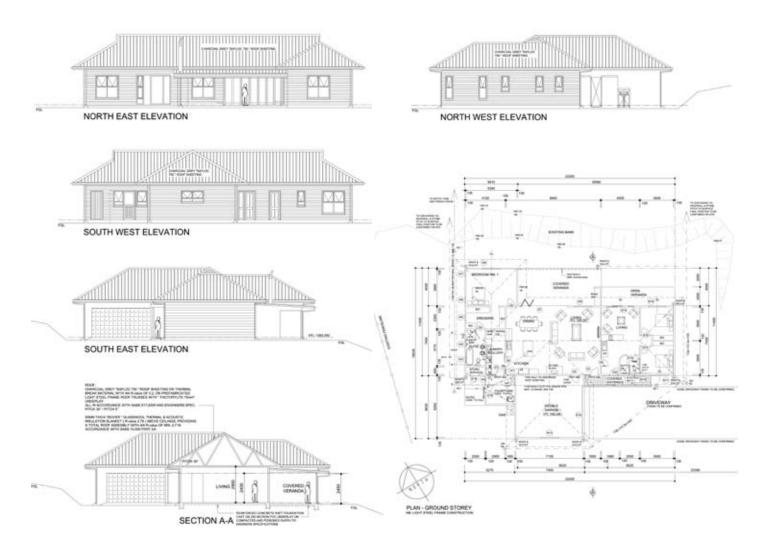


Client/Developer - Private | Architect - Equilibrium Architectural Solutions cc Structural Engineer - Martin & Associates | Quantity Surveyor - Shospec (Pty) Ltd Project Manager - Shospec (Pty) Ltd | Main Contractor - Shospec (Pty) Ltd | Steel Erector - Shospec (Pty) Ltd Cladding Manufacturer/Walls - SHERA & CAPCO | Cladding Supplier/Roof - Safintra Cladding Contractor - Four Seasons Industrial Roofing (Pty) Ltd

The House Wolhurter project entailed the construction of a new residence for a Showspec client, who was familiar with the benefits of using an LSFB system as a result of a previous project. While the house design was standard, site access posed some challenges due to excessive rain.

The client supplied Shospec with drawings from the recommended architect who is familiar with light steel frame construction. Once the design was completed and ready, Shospec took over the project, from earthworks to the final completion of the home ready for occupation.





The structure included Framecad Light Steel Frame section 40 x 90mm C-Channel, and Shera Shiplap Wood Grain Plank cladding. All walls, trusses and roof panels were constructed from LSF.

The client put their full trust in our team to run and implement and complete the project with minimal involvement from any other parties. Communication was great and mostly done electronically with minimal site meetings required.

Tons of LSF used: ±8.4 tons

Span of trusses and Kg/m<sup>2</sup>: Longest truss = 7.4m Profiles used: 0.8mm Plate bent to channel Type of cladding: Shera Plank Teak Wood Grain Cladding area/coverage and tonnage: ±250m<sup>2</sup>





Main Contractor - Stahlbau Construction | LGS Contractor - Rancor | LSF Structural Engineering - EMC Engineering Overall Structural Engineering and Architect - De Kock en Vernnote

The striking and functional Kaap Agri building in Paarl, Western Cape, symbolises the professionalism and success of an organisation that has been operating for more than 100 years.

Recently Charl van Zyl, CEO of Rancor, leading light steel frame (LSF) construction company, was asked for a solution to add a second floor to the Kaap Agri's existing building, adding 570m<sup>2</sup> to the floor area by vertical extension.

The stipulations for the new structure were clear: it had to be cost-effective; it had to comply with building regulations; be acoustically well insulated; be energy efficient and had to be built in double-quick time. "Taking all these into account, a light steel frame solution was certainly the most appropriate," van Zyl says.

The initial design – before Rancor was called in – was based on brick and mortar with concrete beams to support the second floor, but after the foundation footings were uncovered , it was apparent that additional footings would add so much cost and time to the project that the design was not a viable option.

Rancor was then invited by architect/engineering firm De Kock & Vennote to provide a solution in LSF that would comply with the requirements.

This was done successfully. "LSF met all the requirements and, in addition, resulted in lower loading of the existing walls," van Zyl says adding that Stahlbau Construction, the main contractor, accepted the solution without hesitation.

### Scope of works and description

Apart from adding a second floor to the building, the interior of the existing ground floor had to be totally refurbished.

LSF floor joists, 350mm deep, were installed at 300mm spacing to support the new light weight floor. The joists span 6.5m and are supported by the existing brickwork.

The flooring consists of 21mm thick shutterply boards laid over the floor joists, followed by 12mm thick fibre cement boards supplied by Marley Building Systems. Special sound mats were placed between the joists to reduce sound transmission. The sound insulation was further enhanced by installation of suspended acoustic ceilings with an ample ceiling cavity. Excellent acoustic insulation was a nonnegotiable requirement.

The walls for the second floor consist of LSF wall panels, clad on the outside with a Magnesium Oxide board, followed by Tyvek vapour permeable membrane. Top hat sections, 20mm deep, were then horizontally fixed to the structure, serving as brandering to fix the external Diamond Deck pre-painted profiled sheeting, thus providing a durable and robust external skin. Glass wool Cavity Bat insulation, supplied by Isover, was installed in the wall cavities created by the LSF, providing the required thermal insulation (R >  $2.2m^2.K/W$ ). The internal lining consists of 15mm thick fire rated Marley Gypsum boards.

Light steel trusses were used for the roof structure, spanning 17 meters, with wide openings onto the front deck over the exterior stagger glass doors. Top hat cold formed steel sections, 40mm deep, were used as purlins to which the prepainted Diamond Deck profiled steel sheet was fixed.

'The LSF shell of the project (floor, walls and roof) was completed in three months with internal finishing taking a further three months. The client moved in to his new head office on the planned date with great enthusiasm – another satisfied customer!', added Van Zyl.

### Sustainability is the name of the game

John Barnard, Southern African Light Steel Frame Building Association (SASFA) director, says it is encouraging that an increasing number of construction professionals are recognising the environmental benefits and long-term cost savings of LSFB. He says that sustainability with regard to buildings is essentially based on three criteria: social acceptability, affordability and energy efficiency and that LSFB rates highly on all of the sustainability considerations:

- LSF buildings appear no different to 'conventionally' built structures, except that the quality of finishes is typically better with the former. It has found rapidly growing acceptance for 'affordable' as well as up-market buildings in South Africa.
- It is a cost-effective building method, with financial savings emanating mainly from significant time savings to complete building projects, less rework, reduced logistical costs which are of growing importance due to the escalation of fuel prices and general construction inflation and a drastic reduction of wastage and rubble on building sites, when compared with the brick-and-mortar alternative.
- LSF building is significantly more energy efficient than heavy construction methods both with regard to 'embodied energy' of the materials and components, as well as 'operational energy' relating to heating and cooling of the building over its design life.

All three of Barnard's criteria are met on the Kaap Agri project. In fact, as far as energy efficiency is concerned, the R-value (the measure of thermal insulation) of the Kaap Agri external walls is greater than 3 m<sup>2</sup>.K/W which is more than four times better than what would have been achieved using a double brick wall.

Barnard says that the Kaap Agri project is indicative of an area of construction where LSF is increasingly playing an important role. "It is not only perfect for extensions of existing buildings, but, also, LSF building is becoming increasingly relevant in a construction environment that is striving to reduce impact on the environment." So successful was the solution brought by Rancor to Kaap Agri, Rancor was asked asked to assist with a solution to the Kaap Agri Simonduim project, about halfway through the Paarl Head Office construction period.

Both projects were finished on time and within budget.

#### Kaap Agri

Kaap Agri began formally with the establishment of De Westelike Graanboeren Koörporatiewe Vereniging (Wesgraan) in 1912 as a cooperative. Over the years the company expanded in the neighboring towns and areas. In 1981 a large amalgamation took place when Western Province Fruitgrowers and Wesgraan joined forces to form WP (Koörperatief) Beperk.

In 1995 WP (Koörporatief) was converted to a public company, WPK Landbou Beperk. The current Kaap Agri had its origins when WPK and Boland Agri amalgamated in 2005.

Today the Kaap Agri area of operation includes the Swartland, Boland, Wynland, Overberg, Langkloof, Namaqualand, Orange River, Sundays River Valley, Namibia, and the areas in between, as well as Limpopo, Mpumalanga and Gauteng.

#### Rancor

Charl van Zyl (CEO and Founder of Rancor) has more than 25 years of international business experience and has been specializing for the last 10 years in the Light Steel Frame Industry. He started his own company in South Africa in 2007 beginning with delivering roof truss systems to the local market. Within 8 months his business became the largest LGS roof truss business in the province. After specializing in LSF roof truss systems, Charl developed his business to residential and commercial building projects with much success. Charl started Rancor after selling his previous company in 2016 and brings with him the experience of more than 500 individual projects in LSF, where he has been involved in all aspects of design, project management, pre-planning, and the construction of projects - always with a hands-on approach to projects, leading to successful completion.





Client/Developer - Woolworths (Pty) Ltd | Architect - R&L Architects (Pty) Ltd

Structural Engineer - Aurecon Engineers | Engineer - Aurecon Engineers | Quantity Surveyor - iQS Qunatity Surveyors

Project Manager - MDSA Project Managment | Main Contractor - Stefanutti Stocks | Steelwork Contractor - Mazor Steel

Steel Erector - Mazor Steel | Cladding Manufacturer - Safintra | Coil Manufacturer (Cladding Supplier) - Safal Steel

Cladding Contractor - Chartwell Roofing

The brief to the architect was to co-ordinate the considered logistics, to build to a set budget in the most robust manner and to future proof in terms of a 5 year, 10 year and 15 year vision with multi campuses in mind. The DC also needed to be as vermin proof as possible and simple in terms of upkeep and cleaning.

The project was always going to incorporate steel into the design, as this becomes the most economical and column free way to extend a "shed" type space over a vast span, allowing free flow and staging areas for numerous product flows.

The structural framing is a simple truss and girder configuration, all connected down by steel columns onto what essentially is a vast concrete ring beam that surrounds and protects all the low level docking stations. The economy and design principle that makes this otherwise semi-unconventional, is that 2 separate grid structures were used throughout the build; one below for the concrete portals and one above for the steel. The concrete responds to the most efficient dimensions for maximising docking stations, being extremely robust, and the second grid responding to the steel structure above in the making of the most economical spanning steel structure above. The steel structure is a combination of I-sections, H-sections, Channels, Angles, Circular hollow sections, and Cold formed lipped channels. All these different sections were

used for their different qualities to fulfil specific functions whether it's a sag bar or a bearer beam.

The cladding was a simple vertical clad design, the IBR sheeting was fixed broad flute out with a Colorplus AZ 200 material. The upper 1 100mm of the vertical cladding is a continuous polycarb sheet which tucks behind a large structural gutter, then Lapps onto the Colorplus AZ 200 sheeting below. The cladding starts here and is fixed as a single span extruded sheet to the drip trim slightly above the brickwork on top of the continuous concrete ring beam. The resultant gap between the sheet and the brickwork is closed with flashing. The polycarb sheeting to the top, allows natural light to filter into the warehouse and at a level where the building enjoys air extraction, thus allowing the light without contributing to the heat loading of the space. The natural light contributes to our green points in terms of access to the outside, humanising the space, and saving on the day time lighting.

In terms of the fabrication, the major issue we experienced was in terms of the steel accuracy and the cladding and roofing sub-contractors' challenges with the system implemented. In a building of this scale it is virtually impossible to survey and hand over with everything level and true. We found the implemented cladding and roofing systems were able to deal with the challenges, but with special focus from the design and sub-contracting team.



The resultant meetings met with agreement in terms of getting the structure and the covering membranes to work together, especially when fast track is integral to the project. The systems we have developed will certainly be used as a template going forward and improving these aspects of implementation.

Tons of structural steel used: 835.5 Tonnes Structural profiles used: I-sections, H-sections, Channels, Angles, Circular hollow sections, Cold formed lipped channels

Cladding profile/type used: IBR sheeting Cladding area/coverage and tonnage: 7 653m<sup>2</sup>





Client/Developer - Atterbury I Architect - Hoffman Architects I Structural Engineer - DG Consulting

Quantity Surveyor - GK Project and Cost Engineering I Main Contractor - Wilson Bayly Holmes Construction

Steelwork Contractor and Steel Erector - LTS Steelwork I Cladding Contractor - Cladco

Cladding Manufacturer and Supplier - Global Roofing Solutions

The new Club 2 Building in Hazelwood, Pretoria, is set to become a landmark property in the city. The modern, industrial yet retro look and feel, combined with the striking curved roof, has made it a hotspot for local tenants.

In 2015, Atterbury Properties appointed Hofman Architects to design a space that would accommodate a gym as well as office spaces. Situated on the corner of Pinaster Avenue and 18th Street in Pretoria, Club 2 builds on the prestigious Club One office building that was designed and completed in 2011. The five office floors of Club One are leased to the University of South Africa, with popular retail areas such as Hogshead Craft Beer and Hudsons The Burger Joint occupying the ground floor section.

The brief from the client to the architect evolved over time. Initially, the brief was to design a building for Planet Fitness on the intersection South of the precinct, with an office component to make up the bulk on the Northern end of the property. When the design was presented, Atterbury was so impressed that they decided to move their head office to the new building.

This decision changed the brief to the architect in a few ways. The office component had to mirror the design of the client's offices and it had to move to the prominent South corner of the building. The gym, in turn, had to move to the Northern section of the property without it losing visibility and exposure from passers-by.

The ideal design for a gym of this magnitude is a "warehouse" type structure. With this in mind, the design was always envisaged as a steel structure. The office component has a beautiful, industrial theme, which can easily be accommodated by steel structures.

The building is constructed of a curved portal frame structure with large I-beam sections.

The roof cladding that was specified for the project is KlipTite by Global Roofing Solutions. The cladding was cranked around the curves of the portal frames with custom made flashing detail to accommodate the curved roof. The walls were constructed out of a combination of brickwork and the Imison lightweight wall system.

One challenge that the design team encountered was cladding the curved radius of the large section I-beams. To overcome this challenge, these sections were manufactured and not rolled. Ensuring that the exact placing of these sections aligned with the columns on site was challenging, as were the flashings that were needed. The design team had a few flashing prototypes made and in the end a custom designed flashing had to be created to accommodate the curved roof.

The curved portals on the property are particularly unique, innovative and aesthetic. The portals step up and down



over box gutters to let natural light into the interior spaces, and they step in and out over the façade to create deep overhangs to accommodate shaded public spaces over the entrances of the building. This design element is what gives the building its unique appearance.

When working on a steel structure, attention to detail is of paramount importance as any design flaws and errors can be quite unforgiving. The contractors, engineers and architects worked well together to resolve any details as and when they arose. Ongoing inspections of the steel work and a culture of collaboration and innovation led to the successful outcome of Club 2.

Cladding profile/type used: Klip-Tite Cladding area/coverage: 3 400m<sup>2</sup> Cladding tonnage: 18 Tons





Client/Developer - Shoprite Checkers Properties | Architect - Steyn | Roux Truter

Structural Engineer and Engineer - WSP Group Africa (Pty) Ltd | Quantity Surveyor - iQS | Project Manager - SiVEST

Main Contractor - Stefanutti Stocks | Steelwork Contractor and Steel Erector - Mazor Steel

Cladding Manufacturer - Global Roofing Solutions (Pty) Ltd | Cladding Supplier - Safal Steel

Cladding Contractor - Scheltema | Corrosion Protection (Calvanizing) - Advanced Galvanising (Pty) Ltd

Corrosion Protection (Paintwork Contractor) - Nu Nation Protective Coatings

The *Shoprite Cilmor Distribution Park* is the latest installation of the national distribution centre rollout for the owner/ operator client, *Shoprite Checkers*. The project comprises more than twenty buildings, the largest of which are three warehouses serving as the core of the development. The biggest is the 76 000m<sup>2</sup> Dry Goods warehouse, followed by the 18 000m<sup>2</sup> Refrigerated Building and the 12 000m<sup>2</sup> Returns Centre.

The architectural brief was to deliver purpose-fit infrastructure that is aesthetically pleasing, given the facility's prominence from the adjacent freeway and surrounding neighbourhoods, while also maximising the value of the client's investment. The architectural and structural teams collaborated closely to allow function to define form, yet ensure refined aesthetics and a wow-factor to the overall appearance.

Structural steel was the natural choice to realise the large open span roof structures and curved architectural features. The operational design required a 32 x 32m internal grid for the ambient warehouses and 24 x 24m for the refrigerated warehouse. No construction material other than structural steel could achieve the same construction economics for these light-weight, large-span roof structures under the given programme constraints.

The design of the buildings and the subsequent construction methodology were all centred around safe and fast erection on site, delivering a light yet failure-tolerant structure. The buildings are stabilized by large cantilevering concrete tilt-up columns that were constructed during the fabrication period of the steel. The largest of these columns was 24.3m tall, weighing more than 44 tons. Starting off with a stable structure greatly reduced the risk during the erection of the long-span structural steel girders and trusses.



The girders were built-up from horizontally orientated UB chords laced with double equal angle web members. This configuration allowed optimized utilisation of the material and produced a girder that was easier to handle on site due to the lateral and torsional stiffness of the box-shaped assembly. The trusses for the ambient warehouses were classic lattices made from equal angle chords and web members. To provide a flat fixing surface for the refrigeration panels, the trusses for the refrigerated buildings were also boxed lattices with channels as chords.

The connection design and detailing, especially for the girder-to-column and truss-to-girder nodes, also aimed at a reduction of risk during the erection process. All major connections are first seated and secured, after which the main structural bolts or plates are fastened. This greatly reduced handling of heavy bolts and plates while girders or trusses were suspended from cranes.

The appointed specialist steel contractor, *Mazor Steel*, delivered 2 963 tons of structural steel on time and to highest quality standards following a strict safety plan under constant scrutiny by main contractor, *Stefanutti Stocks*, who achieved over one million lost-time injury free man-hours on this project.

The size of the building and the resulting rainwater run-off lengths of the Dry Goods building supported the choice of a curved roof structure for these buildings. As a result of the curve, the roof angle increases with increasing run-off length, thus improving run-off performance of the roof. A jointless sheet transition from -0.5° to 0.5° was incorporated at the apex of the roof in order to avoid a large flat zone. Typical step laps were detailed to facilitate watertight installation and minimise the effects of temperature strain with the first sheeting laps occurring at slopes of more than 2°.

In order to ensure transparency of the sheeting tender, all tenderers were required to submit test compliance data as an entry criterion to the bidding process. This data was to be derived using the methods of the draft cladding code,



SANS10237, which is in development by the *South African Metal Cladding and Roofing Association*.

Scheltema won the sheeting tender with GRS KLIP-TITE as the product of choice, rolled from Safal's AZ150 Colorbond. Similar to the structural steel erection, the contractor deployed safe erection methods far above industry standard while tight collaboration between Safal, GRS and Scheltema ensured a high quality installation with an uncompromised guarantee for the client.

The project was completed on time and within budget while impressing with outstanding design and way-leading quality of works.

Tons of structural steel used: ±2 963 tons

Structural profiles used: UB, UC, C, EA, CFLC, CHS, SHS, RHS

**Cladding profile/type used:** GRS KLIP-TITE™ roof sheeting, IBR side cladding

**Cladding area/coverage:** 118 140m<sup>2</sup> roof surfaces, 19 914m<sup>2</sup> side cladding

Cladding tonnage: ±787 tons





### **TECH TRENDS**

AMANUEL GEBREMESKEL
TECHNICAL DIRECTOR, SAISC

# HOW TO USE LIGHT STEEL TO REDUCE NOISE POLLUTION

I have been spending some quality time in a baby hospital over the past few days. The hospital is really worldclass, the equipment relatively new and the staff absolutely professional. It is too bad the building performance is not keeping up. The issue has to do with noise and, I believe, is easy to remedy by using a few kilograms of steel.

In a ward with many babies one would expect that noise reduction was a primary criteria of design. As monitor alarms go off they initiate a cacophony of baby cries that cause a great deal of stress to the already overstretched nurses and anxious parents.

Noise is unwanted sound. Sound may be understood as a propagating vibration of air. It involves small air pressure waves that the human ear drums, along with the brain, can sense. These pressure fluctuations are referred to as sound pressure. For instance at 1m distance from a person speaking normally the sound pressure is about one-millionth of the atmospheric pressure.

The sound pressure level (SPL) in a given frequency band is related to the root-mean-square sound pressure, p, in that band:

 $SPL = 20 \log p/p_{ref}$ 

Where:

SPL =sound pressure level, dB

p =sound pressure, Pa

 $p_{ref}$  = reference value of pressure, Pa (commonly 20 µPa and corresponds roughly to the weakest sound that can be heard by humans)

Thus, the threshold of hearing perception corresponds to an *SPL* of 0 dB. In contrast, an *SPL* above 130 dB tends to produce pain in the ear. At 100m distance from a jet aircraft taking off one is likely to be exposed to an *SPL* of about 130 dB. Doubling of the sound pressure results in a 6 dB increase in *SPL* while halving of the sound pressure results in a 6 dB decrease.

Sound could both originate at a distance, and thus be airborne, or it may originate by banging against the boundary of a room – impact. Moreover people are perturbed both by noise that penetrates the boundaries of a room as well as by the reverberation of noise within a room.

As most recording studios are well aware, in order to reduce noise reverberation in a room, one must use sound absorbing boundaries. All materials can be assigned an absorption coefficient between 0 and 1 that defines the percentage of sound that is absorbed by the material. 0 represents total reflectivity and 1 represents perfect absorption. For instance an open window will exhibit perfect absorption.

A large room with mostly hard surfaces, such as a cathedral, will have a long reverberation time (the time it takes to reduce the sound by 60 dB) of 5 seconds while a smaller room with many sound-absorbing surfaces – say a recording studio – will have a short reverberation time of half a second. Classrooms should have 0.7 seconds or less in order to comply with typical standard requirements while concert halls may have reverberation times of 2 seconds when fully occupied.



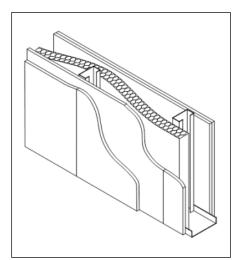
The advanced absorptive materials found in high-performance absorptive noise barriers makes it possible to better mitigate unwanted noise created by rail and aircraft.

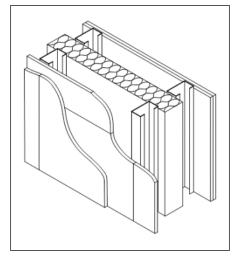
One must also provide boundary elements that reduce the transmission of sounds into a room. This can be measured by the sound isolation capacity of boundary elements. While most office rooms must have boundaries that provide sound isolation of 40 to 50 dB, hospital rooms have higher requirements in the range of 50 to 60 dB.

We will not delve into how sound isolation requirements are derived for building projects. Suffice it to say here that such requirements depend on the anticipated source of noise outside the room and the room's intended use. The design may also consider the background steady-state hum that is available within the room to mask transient private conversation.

ABSORPTION COEFFICIENTS FOR COMMON BOUNDARIES (SOUNDS IN THE 500HZ TO 1000HZ RANGE)	
Type of boundary	Noise absorption coefficient
Insulated stud wall with 15mm gypsum boards	0.04
Wood floor	0.1
Carpet on concrete	0.3
Suspended mineral fibre acoustic ceiling	0.6
Suspended glass fibre acoustic ceiling	0.9

Table 1.





Accoustic installation details.



Intelligently detailed ceiling systems can achieve floor and ceiling sound isolation of 50 to 60 dB for airborne noise and 40 to 60 dB for impact noise.

A distinct source of sound that is hard to isolate is noise from impact. The most common source is associated with people walking. Other common sources include rolling carts, floor impacts in fitness centres and rain. A boundary that is adequate for isolating airborne sound may be found to be inadequate for impact isolation – and in-situ testing may be required on some projects.

A typical insulated steel stud wall with 15mm gypsum board on either side can achieve airborne sound isolation of up to 50 dB. This can be higher than that for typical single and double skin brick walls. Higher insulation is possible by increasing the stud depth, board thickness or insulation. This makes steel stud walls excellent at separating spaces in hospitals where light-weight, quick and reconfigurable walls are a critical acoustic asset.

When it comes to sound isolation between floors a key requirement for acoustic performance seems to be the use of well detailed ceiling systems. Precast plank, cast-in-place and other floors without ceilings typically have poor acoustic isolation performance, both for airborne and impact noise. Intelligently detailed ceiling systems can achieve floor and ceiling sound isolation of 50 to 60 dB for airborne noise and 40 to 60 dB for impact noise.

The solution to the noise pollution in the hospital wards could thus have been as easy as using absorbent walls, floors and ceilings, while also adding stud walls and isolating ceilings around the baby units. In addition to providing privacy for the babies' families this may, in the long run, result in healthier babies, happy parents and a more productive hospital staff.

It would be wise for architects who work for the department of health and private hospital groups to consider acoustic performance in the design of future hospitals. As for the existing hospitals it may make more sense to carry out retrofit work that can be completed economically by South African Light Steel Frame Building contractors without the need to rebuild new wards.



### **SAMCRA FEATURE**

**DENNIS WHITE**DIRECTOR, SAMCRA



# THE SIGNIFICANCE OF A COLOUR'S NAME

All producers of colour-coated coil offer a standard range of colours the names of which may be unique to the producer mill or generic such as red, blue, yellow, listed in a national standard e.g. SANS 1091 or other internationally recognised standards such as RAL and Pantone. Most producers that offer warrantees/ guarantees against branded or trademarked products use names exclusive to their brands as a means to differentiate their coating systems from those of competitors, albeit the same colour. In the past consumers could specify a colour and expect to receive a particular coating system.

Regrettably there are a number of unscrupulous profilers who import coil with a different, invariably inferior, coating system, but with colours matching the trademarked products and then selling them into the market using the same colour names. Unsuspecting consumers only discover the subterfuge when the coating ages or fails prematurely and that the coating system supplied carries no warrantee.

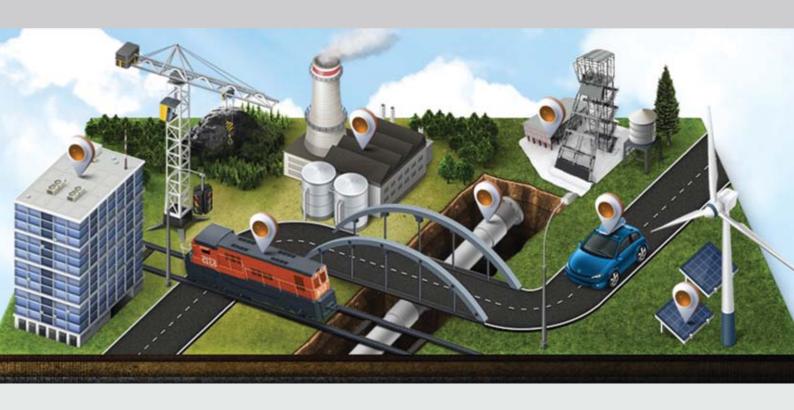
Fortunately some producer mills have previously trademark registered the names of their colours and have begun instituting infringement proceedings against the perpetrators.

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 insist on a written warrantee or guarantee issued by the coil producing mill.

Please visit our website www.samcra. co.za for other articles and papers on subjects pertaining to cladding.



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### **Engineered • Steel • Solutions**

Established in 1922, Robor is a world-class South African manufacturer and supplier of welded steel tube and pipe, cold formed steel profiles, structural steel products and associated value added products and services. Robor is active in most industries, including Mining, Transport – rail and road, Construction, Engineering, Agriculture, Energy, Water and Automotive.

Since the acquisition of Tricom, Robor supplies various telecommunication and power distribution systems, such as; Telecommunication Towers, Satellite Communication Structures and Transmission Towers for the distribution of electricity.

### [ Value Added Services ]

Our range of value added services includes but is not limited to: Hot Dip Galvanizing for corrosion protection, Pipe and Tube cutting (2D and 3D), Punching, Drilling, Coatings and Linings, Pressure Testing, Welding (robotic, stick and submerged arc), Cutting, Wrapping, Painting, Packing, Fabrication of certain components and Ultrasonic Testing.









### **Download Robor's FREE Steel Related APP!**











### **STEASA NEWS**

KEITUMETSE MOUMAKOE (K.M)
DIRECTOR. STEASA



### **ALGIERS INTERNATIONAL TRADE FAIR 2018**

The Mediterranean city of Algiers opened its doors to the international world of trade and investment when it hosted its annual Algiers International Trade Fair 2018 from the 8th May until 13th May 2018 at Palais des Expositions Algiers, Algeria and was organised by SAFEX. The tradeshow event showcased a variety of products such as fashion, textiles, home textiles, automotive, construction, agriculture, food, furniture, machinery, steel fabrication, cosmetics products and lots more. STEASA took part as part of the South African pavilion to show case its members' steel tube/pipe manufacturing capacities and offerings in the fields of oil & gas, petrochemicals, construction, water conveyance, energy, mining and agro processing.

The Algiers International Trade Fair is one of the most strategic platforms for foreign companies to reach Algerian buyers and consumers. The fair attracts exhibitors from the United States of America, France, Germany, Turkey and China, amongst others. This years Trade Fair had China as the guest nation of honour. STEASA had the opportunity to engage with Sonatrach, the largest Algerian and African company and the 11th largest oil consortium in the world regarding their procurement opportunities and how STEASA members can get a footprint in their oil and gas operations. Another strategic meeting organised by SA's Economic Counsellor in Algeria was with Redmed, who are the largest service provider to the Algerian oil and gas industry and have strong ties

with Sonatrach and the South African Embassy in Algeria. Their Marketing director alluded to the fact that they are open to partner with SA companies servicing the petrochemical industry (Oil Country Tubular Goods) and await any proposals.

STEASA commends the DTI for including the Algiers Trade Fair to their schedule of pavilions. The Algiers Fair, I believe will grow to be an appropriate forum for South African companies in the market-relevant sectors which have been selected for participation to promote their products and services, as well as to identify possible investment partnerships.

### WIRE & TUBE FAIR 2018 DUSSELDORF

On the 16th April 2018 to the 20th April 2018, The Steel Tube Export Association of South Africa as part of the South African pavilion took part in the Wire & Tube Fair 2018 in Dusseldorf, Germany. The South African pavilion consisted of 5 Tube companies, namely Robor, Delberg Engineering, Barnes Hall Longmore, Honingcraft Moser, Seascape Stainless Steel Services and STEASA as the export council. Over 1 300 tube exhibitors were present and visitors surpassed 38 000.

The Wire & Tube Fair 2018 by general consensus from the many patrons that I had the pleasure of interacting with over the week, didn't disappoint and maintained its prestige as being a renowned trade fair which is dedicated to wire and tube technologies. It brought new ideas, facilitated business deals, transactions and provided an environment

for ideas and creative solutions, paving the way for product manufacturers, raw material suppliers, components and equipment manufacturers and technology innovators to gain their foothold in regional as well as international markets. The trends ranged from those that were mega, to small dynamic innovations and the reverberating sentiment was that the Wire & Tube Fair is definitely looking into the future.

STEASA had a resoundingly successful Wire and Tube Fair 2018, with over 200 visitors to our stand and plenty of steel tube and pipe international procurement enquiries after the fair from stockists that we were able to establish solid rapport with, which bodes well for long term relations and export opportunities.

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THE SOUTHERN AFRICAN INSTITUTE OF STEEL CONSTRUCTION

# Join us for the 37th stead awards 2018

TO BE HELD ON THE 11 OCTOBER 2018

**VENUES:** 

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COST OF ATTENDANCE:

R950 PER PERSON (Bulk booking discount available for table bookings)

























# THE GOOD

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

## **NEWS**

### SAISC ANNUAL GOLF DAY 8 MAY 2018 - JOHANNESBURG COUNTRY CLUB, WOODMEAD





THE SAISC'S ANNUAL GOLF DAY is always a great opportunity for members to network! A big thank you to our sponsors Allied Steelrode, ArcelorMittal South Africa, Aveng Trident Steel, Business Dynamics Consultants, Document Excellence, Hot Dip Galvanizers Association, KRU Detailing, Macsteel, Prokon Software Consultants and Voidcon. A hearty congratulations to the winning team from BSi Steel!

To see more photos from the Golf Day, visit http://bit.ly/GolfDay2018BTS











### **TELL US YOUR GOOD NEWS!**

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



























# INDUSTRY MOBILISATION MEETING **FEEDBACK**

Our first Industry Mobilisation Meeting took place on 4 May 2018 at the Johannesburg Country Club in Woodmead.

The steel construction industry is best described as an ecosystem – where a balance needs to be established and maintained in order for all to survive and thrive. The team at the SAISC is committed to playing an active role in rebuilding a sustainable steel construction ecosystem.

We were encouraged to see how many people are passionate and committed to the same goal. Thank you to all





who attended and contributed! The challenges are ever present, but it was refreshing to see the level of engagement and willingness to put forward potential solutions. We are in this together!

A key outcome of the meeting was the establishment of a CEOs Task force (see page 26 for more), an SAISC member member-driven initiative aimed at constructively resolving crucial challenges our industry currently faces. We would like to see clear communication between all role players, robust debate and constructive action, all of which are necessary to affect positive change in the industry. Saving the industry is a team sport, and we all need to work together to win!

Full minutes from the 4 March Industry mobilisation meeting are available for download at https://www.saisc.co.za/saisc-industry-mobilisation-meeting-minutes/



### MDA ADJUDICATION SURVEY

# INDICATES A SURGE IN CONSTRUCTION ADJUDICATIONS

Construction and technology law firm and construction adjudication experts MDA Attorneys has reported an increase of 65% in the number of adjudications in the South Africa construction industry in 2017 compared to the previous year. This clearly indicates the industry's preference to embrace adjudication as an efficient way to resolve disputes, with decisions being accepted by a significant majority of the parties as final and binding.

MDA released the findings of its third annual Adjudication Survey last month – the only survey of its kind in SA. Euan Massey, MDA Director, says that the results provide some anecdotal statistical insight regarding the use of adjudication in local industry.

"The perception of the efficacy of adjudication in resolving disputes is growing, judging by the fact that in 73% of the adjudications, there was no notice of dissatisfaction issued (this means that that the decisions were accepted as final and binding). Of the remaining 27% only a few of these disputes were referred to arbitration. Many construction law practitioners criticize adjudication and advise their clients to bypass it and head directly into arbitration, but these percentages indicate that adjudication remains an effective and economical form of dispute resolution," says Massey.

The MDA Adjudication Survey reveals that there is a growing trend to conduct a hearing as part of the adjudication procedure. "The upward trend in hearings is interesting and could be cause for concern. Typically the purpose of hearings is for the adjudicator to raise questions and for the parties to make submissions. However, there are instances where hearings are used for the leading



Euan Massey - MDA Director.

of evidence and there is a risk that adjudication hearings could morph into a form of mini-arbitration. If this happens, adjudication loses its attraction as a way to deal with disputes swiftly and at lower cost," explains Massey.

Adjudicator performance is improving. "This year, we found that 92% of decisions were issued on time – a significant increase from 78% the previous year. Contractors are proving more successful than employers in

disputes with 55% of decisions in favour of contractors," he says.

The Adjudication Survey canvasses MDA clients and surveys various trends in adjudications each year. Hourly rates of adjudicators range from R1 350 to R4 000, with legally qualified adjudicators at the top end of the scale. "We find that in situations where the parties agree to the identity of the adjudicator, they tend to prefer a legally or dual qualified adjudicator," says Massey.

The results of the survey are available on www.mdalaw.co.za

### **About MDA Construction & Technology Attorneys**

MDA Attorneys is a specialist practice in the field of construction and technology law. Its services include legal advisory solutions to contracting organisations involved in infrastructure, mining, petrochemical, water processing, energy and engineering sectors within southern Africa and internationally. MDA also specialises in dispute resolution, commercial support and training. www.mdalaw.co.za.



### STEEL CEO'S TASK FORCE



The CEO task force, a collective of senior decision makers and stakeholders in the steel construction industry, met for the first time at the SAISCs office on 24 May 2018. The task force will meet periodically, with a view to identifying solutions and engaging relevant parties to prompt action that moves the industry forward.

"We believe that the industry is willing to engage more vigorously as it has been in distress for some time," says Paolo Trinchero, CEO of the SAISC. "It is now more important than ever for member companies to get involved at the CEO level to ensure that critical issues are brought to the attention of all stakeholders" concludes Trinchero.

Participants in the inaugural meeting included representatives from Allied Steelrode, Aveng Trident Steel, Betterect (Pty) Ltd, Gauteng Department of Economic Development, Genrec Engineering, Macsteel, Robor, Tass Engineering , the SAISC and Voidcon. CEOs from all organisations within the steel construction industry are welcome to

attend future sessions, and contribute to finding actionable solutions for the most pressing issues impacting our industry.

Report backs on tasks force meetings, resolutions and achievements will be communicated to SAISC members via email, and in person at future Industry Mobilisation Meetings.











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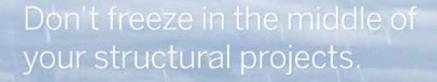


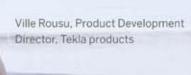
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