Africa Malls

5 new major shopping centres

Product News

Form-Scaff introduces new state of the art circular formwork solution

Form-Scaff Celebrates 50 years
Contents

Project Focus:
Sandton City

Safety Tip:
Vaughan’s Advice - Kwik-Stage Free-standing Tower

Product Feature:
Tifa-Flex
Form-Scaff introduces new state of the art formwork solution.

Cover Story:
Africa Malls
5 new major shopping centres under construction.

Inland Projects

Coastal Projects
Form-Scaff Celebrates Half a Century in Style!
We celebrate Form-Scaff’s 50 years of service to the South African market. 24

Corporate Social Responsibility
Comrades Marathon
Celebrating 30 years of bringing the Comrades to the people. 28
Ride 4 Change
Form-Scaff supports worthy cause. 30

International Branch News
Form-Scaff continues to expand Internationally. 32

Local Branch News
Local branch moves facilitates better service delivery. 33

Staff News
Latest staff appointments.. 34

Branch Contacts 35
The challenge

Mark Axelrod of consulting engineers, Aurecon, says Sandton City like so many other successful shopping centres worldwide, poses a particular challenge to owners and developers wishing to build on the success of the property. Its stature as the premium shopping and tourism node for the region makes it near impossible to close for renovations. In addition, uncertainty of design parameters used to cast slabs 40 years ago (as well as general fatigue) would almost certainly make it risky to make substantial additions to the structure.

“The only way to overcome the challenge was to avoid placing any additional load on existing slabs by constructing new slabs over the top of them suspended by the building’s own structural columns. This allows us to determine exact weight bearing capacities and remove any uncertainty that may exist about future structural integrity. It also negates the need to strip out shop fittings, ceiling and services and as a result overcomes the challenge not to disrupt the commercial undertakings of tenants within the building.”

Contracts director, Richard Amm of Grinaker-LTA explains, “Another major challenge was the crowded sidewalks and roads below the construction site, which meant that crane access would be impossible. All structural elements would therefore need to be lifted with the use of mobile cranes from road level, while concrete would need to be pumped from up to 500 metres away. The modular nature of the formwork structures and versatility of Form-Scaff’s design provided the ideal solution and ensured that even despite these massive challenges work would be able to progress quickly without disruption.”

Project requirements

Form-Scaff technical director, Chris Erasmus, reveals that the Sandton City Level 8 Parkade project was more complex than anyone ever envisioned. It required precision levelling of the entire top level of the shopping centre encompassing an area of approximately 40 000 m². All areas of differing heights needed to be remodelled, while existing air-conditioning refrigeration units, electrical units and other utilities were to be kept operational and incorporated into the works.

“With lack of crane access and other challenges facing us, we realised that the tasks that lay ahead were daunting and that they would require all our technical resources to get the job
It is always great to work with Form-Scaff because we know they are going to do it right.” – Richard Amm, Aveng Grinaker-LTA.

“This was a truly unique project and worthy of the praise it has received from the engineering fraternity,” Mark Axelrod, Aurecon.

done professionally and on time. Meanwhile, with deadlines mounting and pressure growing, these were the first of many engineering challenges that needed to be overcome by our combined teams from Form-Scaff, Aurecon, Aveng Grinaker LTA/ WBHO (joint venture) and independent consulting engineer, Richard Beneke.

He explains that Form-Scaff’s unique Super-Beam system is an easy-to-transport product that is commonly hired by contractors for bridge construction purposes. As a result the required components were more manageable on site. In addition, the off-the-shelf solution ensured stock was readily available and that no additional time would be lost waiting for custom-built supports to be manufactured and tested. The modular nature of the beams (designed to span large portals across roads and freeways) also allowed spans between columns to be easily bridged using standard 3m, 4,5m or 9m lengths or combinations used in tandem to span longer distances if required. Super-Beam’s massive weight-bearing capacity would easily be able to carry the entire weight of the support system, decking and new floors.

Scope of work

Once work began, the exact position of the existing columns needed to be located...
and core samples taken to establish the composition and strength of materials. Thereafter the top screed had to be removed from the existing floors, column toppings taken off and the original columns needed to be exposed so that new reinforced stubs could be cast onto the original column. The stubs were then used to mount Form-Scaff’s Super-Beam system to carry the main weight of the new slab using specially designed clamping systems.

These were designed and manufactured by Form-Scaff’s Specials Factory in Elandsfontein, the clamping system allowed the beams to be fastened directly to the stubs and enabled the company’s Kwik-Stage support to be placed on top of the Super-Beams. Form-Scaff’s Kwik-Deck system provided conventional flat slab formwork to receive the reinforcing steel and ready-mix concrete. Due to Form-Scaff’s large stock holding of temporary works, more than 2 500 tons of support work and formwork could be supplied and erected on site as required.

Form-Scaff’s Martin Boschoff – a highly experienced formwork coordinator was based on site and acted as a link between all role-players in the construction team.

Variances between old records and the actual position of columns proved tricky as differences were often substantial. This brought about a special requirement for Form-Scaff to ensure that the Super-Beam solution catered for any such variances – this was handled through adjustable beams and multi-pronged connection plates to attach beams. These were attached to the specially designed column stubs that would anchor and spread the weight of the new slab evenly through the column.

Post tensioning struts were attached and concrete was poured to a depth of between 300-350 mm. After curing and post tensioning, thousands of carefully torqued high tensile bolts were removed and discarded (as each bolt would have been deflected through the load imposed by the concrete).

Once completed, services such electricity and air-conditioning units could be secured to the new structure. Thereafter the mammoth task of stripping away the temporary works could be easily accomplished with forklifts and removed from the site.

The solution
Form-Scaff’s engineering expertise supported by its huge stock holding of appropriate modern product solutions ensured that the project was completed safely and within specification. Due to the off-the-shelf Super-Beam solution, there was only limited requirement for custom made propping and support materials. Through the ingenious use of available formwork and support structures tied to the building’s existing columns, the solution meant that the entire project could be carried out effectively and with accrued savings of millions of rands.

“The ground-breaking engineering solutions used on this site mean that the doors have effectively been opened for shopping centres (and other high traffic buildings) to be extensively rebuilt and upgraded while remaining fully functional throughout the entire construction process,” concludes Erasmus.

Project Focus

Form-Scaff’s modular Super-Beams bolted to the columns creating a support structure for the future decks without transferring load to the existing slabs.

Although most of the Super-Beams were placed in position by forklifts, some of the perimeter Super-Beams were lifted into position by crane.
Ensure that your Kwik-Stage Free-Standing Tower is Erected and Used Safely!

- Do not move the tower with persons or material on the platforms.
- Always install Trapdoors.
- Always attach the Hook-On Ladder using Super-Scaff Ladder Clamps.
- Always climb up and down on the inside of the tower.
- Diagonal Brace on all 4 sides.
- Plan Brace every 4 metres in Height.
- MAXIMUM HEIGHT = 3 x MINIMUM BASE DIMENSION
- Always install tower on a flat hard surface.
- Toe-Boards, Handrails and Knee-Rails at every working platform.
- Avoid advertising boards & banners on towers.
- Find out the safe working load of the Castors & Lock the Wheels, especially at the edges of the slabs.
Tifa-Flex can withstand concrete pressures of up to 60 kN/m².

Variety of Panel sizes makes the system versatile and easy to use.

The Panels can be flexed up to a minimum radius of 5000mm.

The Panels can be assembled to form circular concrete walls up to 6000mm in height.

18mm WISA-Form Plywood provides a very good concrete finish.

Access Brackets are available to support safe access platforms at the required working height.

Only one tie is required every 1.8 m² of face area.

Product overview
Tifa-Flex is a 60kN/m² circular formwork system for curved or radiussed concrete walls.
Being part of the Form-Scaff Tifa range, Tifa-Flex uses a lot of standard Tifa components such as the push-pull props, clamps and fittings.

The Tifa-Flex system is very quick and easy to install - simply adjust the turnbuckles on the back face of the Panels to achieve the required radius, attach the access platforms and propping system and lift the Panels into position. Minor radius adjustments can be done in-situ.
1. Tifa-Flex make-up Panel

2. The Tifa Fixed clamp connects Tifa-Flex Panels together side by side

3. The Tifa Adjustable clamp is used to connect panels together at the make-up panels

4. 20mm Dywidag ties inserted through Tifa-Flex Panel Walers

5. Tifa Alignment Bars & Stop-end Hooks used to maintain stop-ends in position
**Tifa-Flex Panels**

Tifa-Flex Panels are used to form circular walls. The 18mm plywood facing can be easily flexed using the different Tifa-Flex Turnbuckles, and can be radiused from a minimum radius of 5m.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152023</td>
<td>TIFA-FLEX PANEL 3000 X 2400</td>
<td>655.0</td>
</tr>
<tr>
<td>9152021</td>
<td>TIFA-FLEX PANEL 3000 X 1200</td>
<td>396.0</td>
</tr>
<tr>
<td>9152022</td>
<td>TIFA-FLEX PANEL 3000 X 600</td>
<td>227.0</td>
</tr>
<tr>
<td>9152023</td>
<td>TIFA-FLEX PANEL 1500 X 2400</td>
<td>328.0</td>
</tr>
<tr>
<td>9152024</td>
<td>TIFA-FLEX PANEL 1600 X 1200</td>
<td>194.0</td>
</tr>
<tr>
<td>9152025</td>
<td>TIFA-FLEX PANEL 1500 X 600</td>
<td>115.0</td>
</tr>
</tbody>
</table>

**Tifa-Flex Soldier Splice**

Tifa-Flex Soldier Splices are used to fix two Tifa-Flex Panels on top of one another.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152002</td>
<td>TIFA-FLEX SOLDIER SPlice</td>
<td>12.5</td>
</tr>
<tr>
<td>9152011</td>
<td>M24 X 40 GR #8 BOLT</td>
<td>0.2</td>
</tr>
<tr>
<td>9152052</td>
<td>M24 X 60 GR #8 CENTRALISING BOLT</td>
<td>0.4</td>
</tr>
</tbody>
</table>

**Tifa-Flex Walers 810**

Tifa-Flex Walers 810 are used to locate the ties in position behind two Tifa-Flex Soldiers.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152007</td>
<td>TIFA-FLEX WALER 810</td>
<td>24.0</td>
</tr>
</tbody>
</table>

**Tifa-Flex Turnbuckles**

Tifa-Flex Turnbuckles are used to set the required radius on site.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152004</td>
<td>TIFA-FLEX PANEL TURNBUCKLE 370</td>
<td>2.7</td>
</tr>
<tr>
<td>9152014</td>
<td>TIFA-FLEX LINK TURNBUCKLE 470</td>
<td>3.0</td>
</tr>
<tr>
<td>9152051</td>
<td>TURNBUCKLE PIN 16x62</td>
<td>0.1</td>
</tr>
<tr>
<td>9152053</td>
<td>R-CLIP</td>
<td>0.01</td>
</tr>
</tbody>
</table>

**Tifa-Flex Levelling Jack**

Levelling Jacks are used to level the top of the panels.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152012</td>
<td>TIFA-FLEX LEVELLING JACK</td>
<td>2.5</td>
</tr>
</tbody>
</table>
Tifa-Flex Lifting Brackets
Tifa-Flex Lifting Brackets are used to lift the Tifa-Flex Panels. The Tifa-Flex Lifting Bracket can also be used as a Top Tie Bracket.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152013</td>
<td>TIFA-FLEX LIFTING BRACKET</td>
<td>7.1</td>
</tr>
</tbody>
</table>

Tifa-Flex Prop Connecting Bracket
Tifa-Flex Prop Connecting Brackets are used to attach Props and other components to the Tifa-Flex Panel.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152010</td>
<td>TIFA-FLEX PROP CONNECTING BRACKET</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Tifa-Flex Access Bracket
Tifa-Flex Access Brackets are fixed to the Tifa-Flex Prop Connecting Brackets or the Tifa-Flex Lifting Brackets near the top of the Tifa-Flex Soldiers for access to pour concrete.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152009</td>
<td>TIFA-FLEX ACCESS BRACKET</td>
<td>10.4</td>
</tr>
</tbody>
</table>

Tifa-Flex Infill Member
21mm Plywood is fixed to either side of the Tifa-Flex Infill Members to create the required size make up panels between the Tifa-Flex Panels.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9152016</td>
<td>TIFA-FLEX INFILL MEMBER 1600</td>
<td>15.0</td>
</tr>
</tbody>
</table>

Tie System
20mm Dywidag Ties with Dywidag Combi Wing Nuts are used with the Tifa-Flex system.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MASS(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9153001</td>
<td>DYWIDAG BAR 20mm 1000</td>
<td>2.6</td>
</tr>
<tr>
<td>9153002</td>
<td>DYWIDAG BAR 20mm 1500</td>
<td>3.8</td>
</tr>
<tr>
<td>9153003</td>
<td>DYWIDAG BAR 20mm 2000</td>
<td>5.1</td>
</tr>
<tr>
<td>9153020</td>
<td>DYWIDAG COMBI WING NUT 20mm</td>
<td>1.6</td>
</tr>
</tbody>
</table>
The new 15 ml Signal Hill Reservoir was commissioned by Amatola Water for additional water storing capacity in the Mthatha Region close to Umtata. The project forms part of the bigger Presidential Infrastructure Spend Programme from government in the Eastern Cape – one of the poorest areas in South Africa.

GIBB, one of SA’s leading multi-disciplinary engineering consulting firms designed the Signal Hill Reservoir as a post-tensioned reservoir with no solid connection between the reservoir floor and walls. Walls are cast onto bearing pads to allow for any expansion and contraction. The method of construction is casting the full reservoir in four quadrants with three cast lifts per quadrant. Post tensioning will be done once the reservoir is complete and the required concrete strength has been obtained.

Placement of the first Tifa-Flex panels just after sunrise.

The circular shape starting to come together.
TVR / Mamlambo opted to use Tifa-Flex to cast the circular walls of the reservoir. Tifa-Flex is Form-Scaff’s recently launched state-of-the-art circular wall formwork system.

The system offers a high quality WISA-Form plywood face that can be set to the exact radius by adjusting the turnbuckles between the trapezoidal soldiers. A lazer-cut radius gauge is provided to the site and is used to set the required internal and external radii.

The system makes use of standard Tifa components such as Push-pull props, clamps etc. The 60kN/m² Tifa-Flex system uses a 20mm Dywidag Tie System to ensure accurate concrete wall thicknesses through-out.

The 4,5m high concrete pours were made up of standard 3,0m and a 1,5m high Tifa-Flex panels with only 3 ties in the vertical position. When compared to a Tifa-Lite Flex option, this results in 60% less ties which relates to massive time and cost savings, both in the ties itself, but also in the sealing off of the tie holes afterwards.

Form-Scaff looks forward to provide Tifa-Flex as the system of choice on many circular formwork projects in the future.

Professional Team

Client Amatola Water
Contractor TVR / Mamlambo
Contracts Manager Brian Potter
Consultants GIBB
Cover Story

Africa Malls

Kwik-Deck speeds up construction of major malls in Africa.

Contractors working on a slew of giant new shopping malls across Africa are opting to make use of an advanced new decking system that radically improves construction time while allowing easy and safe access to tradesmen working beneath deck supports.

The Kwik-Deck system, developed by Form-Scaff, is an evolution of the decades-old coffers system used to produce concrete slabs with a waffled soffit finish. The new system however takes less time to erect and can be stripped just three to four days after pouring of concrete and, as a result, significantly reducing investment in additional falsework as well as labour.

Having been designed from the outset to facilitate the use of either coffers or flat slabs, Kwik-Deck uses props to facilitate quick erection of the falsework. While this is not unique in the industry, the addition of quick-release beam supports is, and it allows the decking falsework to be removed after just three or four days (depending on curing requirements) while the props remain in position until the concrete slab has achieved sufficient design strength.

This is in contrast with other prop-based systems that require at least 21 days before coffers and falsework can be removed. Traditional stage-type systems, by comparison, also allow the removal of falsework within three to four days in most cases, but are comparatively labour intensive, take much longer to erect and limit thoroughfare underneath the deck. Breakdown and re-erection of staging is also time-consuming.

Need for speed

“Contractors working on modern construction projects strive to achieve the fastest possible pour cycles and, in doing so, still have access to wet and dry trades underneath deck pouring areas where possible.

Until recently, prop-based systems provided a reasonable solution for easy erection and access underneath, but due to the 21-day period before stripping could take place they needed an enormous amount of falsework to be employed on each site.

“This was costly and time consuming. In addition, the reduced stability of props compared with traditional staging was a concern and the benefits were, in the opinion of some, not sufficient to outweigh the drawbacks.”

“That is why we developed a system that effectively draws on the best of both types.”

“Our system is also designed to be seamlessly interchangeable with either system and for stability sake many of our contractors now choose to combine props with braced staging systems.”

“For example, they can use our staging for perimeters or on a corner of the deck for initial stability and edge protection, then use props for the rest of the floor.

This interchangeability of our system is unique and is a major advantage for clients to simplify their falsework requirements on site. It will even work seamlessly with contractors’ own staging systems,” says Klaas Pouwels, Form-Scaff business development director.

Using BS props as support work facilitates a more spacious working environment.
Showcase developments

Operations director, Darryl Voysey says these benefits have quickly been recognised and is the reason why contractors currently building the five biggest malls of their type in Africa are using Kwik-Deck to complete their projects.

- Mall of Africa in Midrand - WBHO and Group 5 (JV)
- Westhills Mall in Ghana - WBHO
- Baywest Shopping Centre in PE - Murray and Roberts
- Dainfern Square in Fourways - Murray and Roberts
- Matlosana Mall in Klerksdorp - Murray and Roberts

“These are flagship developments and the contractors are using our Kwik-Deck coffer systems because of the speed of erecting, stripping, and reerection, as well as the ability to grant access to tradesmen to complete work underneath the supports.”

“Contractors also have access to a range of props for different heights, or to suit weight and strength requirements and can supplement requirements with their own staging equipment if needed. An additional benefit is that Form-Scaff has the unique ability to maintain sufficient stock-holdings to support the sheer scale of all these projects without delay. Our engineers, technical staff and crews are also readily available to assist with requirements on each of these sites, if and when there is a requirement,” adds Voysey.

Rich in benefits

Looking at some of the technical issues and advantages of the new system, Chris Erasmus Form-Scaff technical director, says the new Kwik-Deck system can be supported on any of the company’s support-work systems. A Kwik-Deck drop-head is attached to the upper end of each prop which allows the coffers and Kwik-Deck Beams to be easily stripped for re-use. One of notable technical differences on the system is the change from the standard 900 X 900mm grid to 925 X 900mm. This additional 25 mm is to accommodate the Kwik-Deck Beams required to hold the coffers in place and translates into beams in one direction being 25 mm wider and using slightly more concrete.

“We initially viewed this as a potential stumbling block, but our customers (contractors) on all of the projects where the new system is being used easily managed to convince their clients that the advantages of speed, space, transport and lower labour requirements of the new system far outweigh the need to resize drawings etc. In future architects and engineers wanting to use the system will simply take the new grid size into account and design accordingly. In addition, a slightly wider rib adds extra strength to the floor and may even increase the loading capacity of floors in certain circumstances,” concludes Chris.
Menlyn Park is a Super Regional Shopping Centre opened in 1979 and is currently facing challenges from surrounding developments which are now emerging to challenge its position.

The opportunity presented with the reconfiguration is well timed and a significant opportunity with the advent of Menlyn Maine being developed close by. Menlyn Park Shopping Centre is set to see a R2 billion expansion to its existing facility, despite it already being the biggest centre in the capital. The development, spearheaded by South Africa’s shopping centre investor Pareto and its partner Old Mutual Property, will see the centre expand by 50 000m². Currently the shopping centre boasts 120 000m² of floor space and has over 300 stores.

The development is envisaged to transform Menlyn Park into the biggest shopping centre on the African continent.

Sun International plans to relocate its Morula Casino, in the City of Tshwane, closer to Menlyn Park Shopping Centre. The R3 billion ‘entertainment node’ will be called Time Square at Menlyn Maine and will include a casino, a five-star hotel and an indoor entertainment arena. It is anticipated that the shopping centre will benefit from the hotel group’s foot traffic.

The total completion of the development will be in 2016.

**Phase 1**

The construction of additional shop spaces, a new food court area and a new parkade area to this major shopping centre, has created many challenges. Old shopping spaces, lift shafts and the outer entertainment pavilion had to be demolished before any new construction could commence.

The project consisted of two separate structures, the reconfiguration of the old food court and a new parkade and shopping area.

The food court required demolishing of an existing entertainment floor, strengthening of existing columns on three levels below and two additional floors to accommodate new stores. Additional to this, two new lift shafts had to be added to the outside perimeter of the existing building.

The new structure consisted of three new levels all at double volume heights. The lower floor was to create an additional parkade of 28 000m² and the same amount of space above for shops like Food Lovers Market and Pick n Pay. This area was enlarged with mezzanine interim slabs and roof slabs to create a feeling of space, accompanied by a towering steel canopy to complete the roof structure.

With the project starting in June 2014, and a hand over date of the 14th of December, the major challenge on this project was time. This left a time period of three and a half months to complete the 42 000m² structure, making this an extremely tight deadline on the program. This was made even shorter due to the three week Steel Industry strike at a critical stage of the project. This forced an even bigger acceleration to an already accelerated program necessitating additional required resources to site.

At the peak of the project Form-Scaff supplied in excess of 14 000m² of Kwik-Stage & Coffer Soffits as well as 19 000m² of double volume support. This accumulated to nearly 2000 tons of equipment on site.
A view of the new West wing under construction.

A small circular Coffer slab in the new food court.

Brand new 425 Coffers in position.
Mall of Africa

Mall of Africa is situated in Midrand between Johannesburg and Pretoria in the heart of the Waterfall Business Estate development, the fastest-growing urban node in Africa.

This new shopping centre will cost approximately R3.5 billion to complete and will include 120 000m² of retail space accommodating over 300 shops. There will be two levels of shops as well as two levels of basement parking.

This is the biggest single-phase shopping mall development ever done in South Africa to date with 12 tower cranes erected on site. The project will use over 16 000 tons of rebar steel as well as over 200 000 cubes of concrete.

In January 2014 Form-Scaff Pretoria was awarded the mammoth task to supply all horizontal formwork to site. This entailed over 35 000m² of formwork systems including: Kwik-Deck, Coffers, Kwik-Strip and Multi-Form. At the peak of the project Form-Scaff Pretoria will have supplied over 4000 tons of equipment to site. The branch has based a formwork controller (Martin Boschoff) as well as a checker (Jerry Diale), permanently on site for the duration of the project.

The inland North drawing office has spent over 2000 hours designing formwork for the project and after the 18 months duration of the contract, Neville Webster (the drawing Office Manager) approximates they will have doubled the hours.

Kwik-Deck supported on both Kwik-Stage and BS props at different levels of the new Mall of Africa.
One of the many new Coffer decks under construction.
KwaMnyandu Shopping Centre

The KwaMnyandu Shopping Centre, funded by Nedbank Corporate Property Finance, is a R273 million project.

This 34 000 bulk square metre development is set on land leased from Passenger Rail Agency of South Africa (PRASA) adjoining the KwaMnyandu railway station in Umlazi, the second busiest station in Kwa-Zulu Natal. This unique location ensures that the new shopping centre enjoys maximum foot traffic as all rail commuters using the station will access it through the centre.

KwaMnyandu Shopping Centre consists of over 23 000m² of GLA with the two major anchor tenants being Shoprite and Pick n Pay.

The fashion anchors are Truworths, Identity, Markhams, Totalsports, Exact, Jet, Edgars Active, Sterns, Foschini, Ackermans, PEP, Mr Price Apparel and many other KZN based fashion companies.

KwaMnyandu Shopping Centre and the railway station together form an integral part of the KwaMnyandu growth node in central Umlazi.

The local government has extensive development plans for the precinct, which includes a proposed mix of commercial and residential developments. This should see significant economic growth in the area in the coming decade; with over 200 000 bulk square meters approved by the eThekwini Municipality for the KwaMnyandu Node.

Aerial view of the new KwaMnyandu Shopping Centre.
Reinforcing steel being fixed.

The new South East wing.

Erection of the perfectly plumb Kwik-Stage supportwork.
South Africa’s new super-regional mall is anticipated to be complete by March 2015 in Port Elizabeth, a seaside town set along the 16km stretch of Algoa Bay, one of the country’s richest biomes for bird and marine life. With it, the retail centre will bring a new ice-rink, a greater variety of entertainment and shopping options as well as dedicated green spaces to preserve and show off the areas environment.

This incredible project will, on completion, serve the communities of the greater Nelson Mandela Bay metropolitan municipality, as well as Eastern Cape shoppers living as far afield as Grahamstown and Plettenberg bay.

The mall will be home to approximately 250 shops and has a total GLA of 90 000m², with 3200 parking bays. It is estimated that the mall will be visited by 800 000 people monthly.

Form-Scaff supplied a total of 2100 tons of equipment at the peak of the contract, the total tons of structural steel 1000 ton, concrete in excess of 65 000m³ and a total of 7 million bricks. The project also created 3000 construction jobs and 1500 long-term jobs.

Baywest began on the 15th May 2013, anticipated practical completion on the 6th of March 2015 and opening 19th March 2015.

Baywest Mall is opening doors to further construction work in Port Elizabeth. Around Baywest there will be a new suburb as well as a new interchange which will connect to the surrounding suburbs.
Aerial view of Baywest Shopping Centre.

A clear example of Kwik-Deck versatility.

425 Coffers in place.
Celebrating half
Celebration

a century in style!

Anniversary celebrations were recently held in four major centres of South Africa to celebrate the historic occasion of Form-Scaff’s 50 years of service to the South African market.

Since then just about every major construction project that has shaped the country has used Form-Scaff equipment at some point in the development. Having grown to become leaders in the supply of shoring, scaffolding and formwork systems in the country, Form-Scaff invited its prestigious clients to share the occasion and looked back at some of the highlights and projects accomplished over the years.

More than 1200 guests were present at the parties throughout the country with a guest list that represented the biggest gathering of construction firm executives in the country in recent history.

Glitz and glamour

High kicks and entertainment there was aplenty with good food along with the good company of colleagues, retired ex-staff, including one of the founder members Mike Sullivan, as well as peers and all who played a part in the ongoing success of the company. Guests were taken on an entertaining audio visual journey through the founding of the company from a humble garage in Johannesburg, to become a powerhouse in the local economy and one of the largest companies of its sort in the world.

With never a dull moment, the company’s journey has been an exciting one that has taken its staff and equipment to the top of the country’s tallest buildings, to the crest of its massive dam walls, to the high-speed Gautrain and the pitches of its World Cup soccer stadiums. It has stood up to every challenge and provided truly South African solutions that have shown the world what this country is capable of.

Form-Scaff formed the basis on which the Waco International Group was built and successfully established wholly owned operations in countries as diverse as Chile, Australia, Mauritius, New Zealand and the United Kingdom. Through this it has provided products and services for some of the most prestigious projects of their kind on the planet, including the serious business of renovating the Houses of Parliament in England, Congress Hill in the United States and some of the world’s most high-tech bridges in Hong Kong.

Future Unwritten

Looking towards the future, the company is stronger than ever before and will continue to play a leading role in support of the construction industry in South Africa and across the world. No matter where the company is operating globally, it will always maintain its South African attitude and will never walk away from a challenge, no matter how big or complex it may be. Form-Scaff will find a solution.

“We will continue to play a leading role in support of the construction industry in South Africa and across the world”.

Mike Els (CEO of WACO Africa) opens proceedings.

Left: Waco International CEO Stephen Goodburn and wife Annelie; Right: Form-Scaff Director Eric Esterhuysen and wife Cheryl.

Directors, Darryl Voysey, Eric Esterhuysen and Klaas Pauwels look back into the history of Form-Scaff.
Celebration of 30 years of bringing the Comrades 1984
Since 1984 spectators and television audiences have been brought closer to the Comrades Marathon than ever before with specialised access ways and temporary structures sponsored by Form-Scaff.

Every year organisers from the Comrades Marathon Association (CMA) in association with Form-Scaff technical staff, work tirelessly to make the start and finish venues uniquely “Comrades”, while transforming them into spectacular venues for spectators and TV viewers alike.

As one of the world’s oldest and most recognised ultra-distance races on the planet, Comrades is a legendary South African event that has grown to become a symbol of unity and hope for nations across the globe. It is therefore fitting that Form-Scaff, a truly South African company and world leader in its own field, sponsors and supports this race.

Jeff Minnaar of the CMA has overseen more than 40 Comrades Marathon finish events and says that the generosity and expertise that the company has brought to the race has transformed the event from an above-average competitive road-race, to become a true spectacle with stage shows on either-end that are fitting of one of the greatest races of all.

“We are eternally grateful for the ongoing sponsorship and technical assistance we receive from Form-Scaff. Not only does the company provide viewing areas for spectators and stages for VIPs and participants, but they also provide advertising space for the sponsors who effectively keep the race going.

“I must add that after 30 years it is a pleasure dealing with the company’s representatives. Their can-do attitudes and ability to build almost anything, or make modifications wherever we need them, gives us the confidence to be creative and try new things so that we are constantly pushing the envelope and improving on the previous years’ shows.

“This kind of relationship is not built over a short space of time. People like Cameron Bulter of Form-Scaff in Ballito and many others, are pillars that have been assisting us for so long that they are an integral part of the “Comrades Team”. This kind of involvement from Form-Scaff staff makes our jobs easier and allows us to bring the crowds closer to the action.

“For example, last year we introduced a three tiered viewing platform all the way down the main straight to the finish line. This allowed spectators to feel like they could touch the runners. We also introduced bigger and better prize-giving stands and VIP viewing platforms right where the action happens,” says Jeff.

According to Cameron Bulter, Form-Scaff Ballito branch manager, the company remains committed to the race and has custom built a substantial amount of material specifically for Comrades. These include access bridges that allow the organisers to maintain safety and security protocols while allowing the maximum amount of spectators close-up views of the finish line.

Altogether 80 tons of material is used for the start and finish extravaganzas with about 90 percent being dedicated to the finish point alone. “The majority of material we use is from our Kwik-Stage access material stock, as well as specially developed bridge structures that are solely used for the Comrades Marathon.

“There are also plenty of hook-on boards for sit-on, stand-on, presentation boards etc. Importantly for the organisers we supply enough advertising hoarding for the main sponsors to show their support and get maximum television and spectator exposure as well.

“To watch TV and see our banners is the ultimate thrill and is recognised by our customers as our contribution to a worthwhile cause. It is a big part of our social responsibility and one that we are proud to be associated with,” says Cameron.

He concludes that sister company, SGB Cape, also plays an important role in the build-up of the structures, supplying all the labour and some specialised equipment wherever it is required. In fact, the entire Waco Group is closely involved with the race and proud to be associated with one of the premier events on the world athletics calendar.
Battling rough terrain, river crossings and mountain climbs, a brave band of off-road warriors recently set out to light up the lives of the tiny children of the impoverished Manubi area on the Wild Coast.

Among them were our own Matthew Miles from Form-Scaff Durban South and Blackie Swart of SGB-Cape (Waco-Africa), who would not let the hundreds of kilometres of treacherous terrain and nearly insurmountable natural obstacles stand in their way.

The company sponsored them to take part in the Ride 4 Change initiative of the charity Touch Africa that raised funds to build the Zisukhanyo crèche (meaning to shed light) that will provide the areas’ children with the kind of caring and nurturing environment that they deserve.

**Battling the odds**
Overall, the challenge saw 14 brave sponsored riders take on all manner of obstacles to enable

*"The views at some points along the route were absolutely breathtaking*, says Matthew.
them to ride their off-road Honda motorcycles all the way from Morgan’s Bay in the Eastern Cape, through Coffee Bay and Mazepa Bay to Manubi in order to raise the funds needed to build the crèche.

Villages along the coast in this area had recently been branded among “the 10 worst places to grow up” by the Sunday Times and this added impetus and determination on the part of the riders to do their best and bring much needed assistance to the rural communities along the way.

In order to do this they provided manual labour to assist with small projects, where possible, or delivered supplies in other areas where needed. The riders even took time to stop in at the “Step by Step” crèche project, which was built with the funds raised during last year’s ride, and checked in on the bright-eyed gang of little-ones.

**Worthy cause**

At the end of the trail was their destination of Manubi, where they were welcomed with open arms by the villagers and were cheered-on by the little children who they had travelled six days and 400km to see. After a short rest the riders knuckled-down and began the necessary preparatory work and inspected the foundations that had already been laid for the 50m² crèche project. (Final construction work is far advanced and furnishing etc will be completed shortly).

All too soon the time was up though and the riders had to say their last goodbyes and begin the long and arduous trip back home. With the children’s shrieks of delight fading away behind them and the hills becoming distant, each rider was left with a special place in their hearts for these little ones.

This is the second year of the company’s participation in the Ride 4 Change charity initiative and underscores our commitment to improving the lives of everyone in our country, no matter how far away they are from us or how hard they are to reach!
Form-Scaff expands further Internationally.

Along with the local growth, Form-Scaff continues to expand its footprint Internationally with two new branches - one in Kitwe, Zambia and the other in Pemba, Mozambique.

ZAMBIA - KITWE
Karibu Business Park, Kitwe / Ndola Dual Carriageway, Kitwe
Tel: +260 96 688 0009 / +260 95 559 3676.
Cel: +260 966 923 854

Zambian Branch

MOZAMBIQUE – PEMBA
Rua Estrada Nacional 106
Muxara, Pemba
Tel: +258 84 714 3142

Mozambican Branch

Branch Manager: Barkley Wolfenden

Branch Manager: Kyle McIntosh.
Local Branch News

Local branch moves facilitates better service delivery

Four Form-Scaff branches recently moved to new locations to ensure better service delivery to our valued customers.

Cape Town

Branch Manager: Johnny Van Den Berg

6 Waboom Str, Summerville, Kuilsrivier, Cape Town
Tel: 021 528 6500

Bloemfontein

Branch Manager: Martin Westraad

26 Tibbie Visser Street, Estore S/H District, Bloemfontein
Tel: 051 432-5555

Newcastle

Branch Manager: Sean Gallagher

6 Schonland Str, Riverside Industrial Area, Newcastle
TEL: 034 375 7697

Witbank

Branch Manager: Jaques Heyns

66 Geodesic Crescent, Marelden Ext 3, Techno Park, Witbank
Tel: 013 690 2833
Staff News

Congratulations to all recently appointed Form-Scaff staff.

Accompanying the new International branches and local branch moves, Form-Scaff has made numerous changes to management and other staff members over the last 12 months. We would like to take this opportunity to congratulate all newly appointed employees of the Form-Scaff family.

New International Appointments

Jaques Bolle
Regional Manager - Africa

Ronald Westbrook
Branch Manager
Ghana Branch

Barkley Wolfenden
Branch Manager
Zambia Branch

Kyle McIntosh
Branch Manager
Mozambique Branch

Michael Reyneke
Branch Manager
Tanzania Branch

Peter Vermeulen
Branch Manager
Swakopmund Branch

John Hartley
Branch Manager
Windhoek Branch

Freddie Robertson
Branch Manager
Swaziland Branch

New Local Appointments

Ronel Harupursat
Branch Manager
Margate Branch

Sean Gallagher
Branch Manager
Newcastle Branch

Stefan Windell
Branch Manager
Pretoria Branch

Thabo Mashigo
Branch Manager
Vereeniging Branch

Eben Robert
Technical Sales Rep
Bloemfontein South Branch

Wendel Archunsalam
Technical Sales Rep
Durban South Branch

Zita Walters
Technical Sales Rep
East London Branch

Tian Rheeder
Technical Sales Rep
Kya Sand Branch

Ronald van der Walt
Technical Sales Rep
Pretoria Branch

Tatim Hanna
Technical Sales Rep
Pretoria Branch

Jean Plenaaar
Technical Sales Rep
Polokwane Branch

Rob Du Toit
Technical Sales Rep
Vereeniging Branch

Werner Greyvenstein
Technical Sales Rep
Witbank Branch

Training Department Appointments

Ian Caister
Manager FS Training Academy

Warren Walker
Trainer
Coastal Region

Craig Scott
Trainer
Inland Region

National Distribution Centre

Piet Smit
Hire Distribution Manager

Sean Campbell
Refurbishment Manager