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Agrément South Africa

PRESENTATION OF 2015/16 ANNUAL REPORT TO THE PARLIAMENTARY PORTFOLIO COMMITTEE ON PUBLIC WORKS

Date: Tuesday, 18 October 2016

M515, 5th Floor, Marks Building, Parliament, Parliament, Cape Town

Mr Pepi Silinga: Chairman: Agrément South Africa

Mr. Sammy Skosana: Ag. CEO, Agrément South Africa

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AGREMENT SOUTH AFRICA
innovative construction product assessments

WFTAO
WORLD FEDERATION OF TECHNICAL ASSESSMENT ORGANISATIONS

ANNUAL REPORT

2015 | 2016

AGRÉMENT SOUTH AFRICA

innovative construction product assessments

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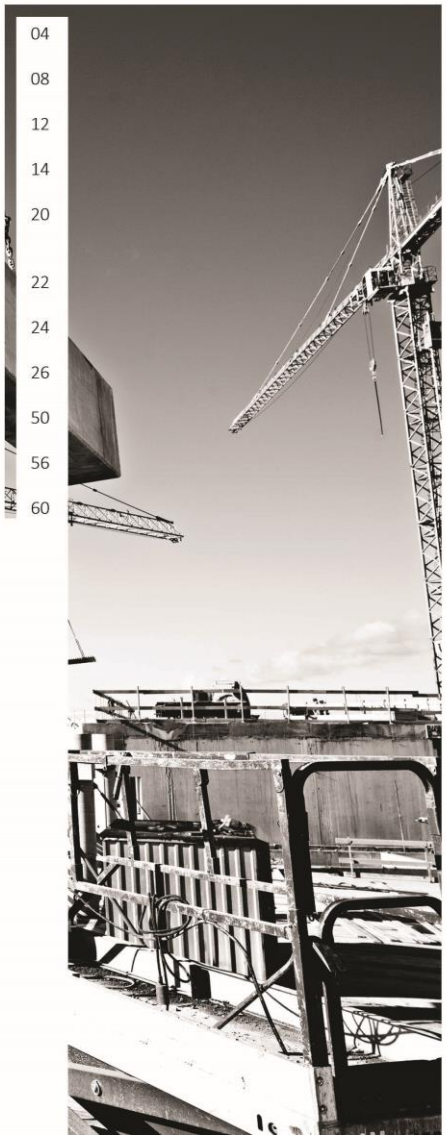


Key points of 2016 Annual Report

- Importance and use of Agrément certificates.
- Board oversight role.
- Mandate of Agrément South Africa & its promotion of innovation.
- Main stages covered in granting certificates.
- Quality inspections and validity reviews.
- Annual and quarterly targets**.**
- Achievements in reporting year measured against Agrément's mandate.
- Technical outputs
- Financial performance

Background

- Agrément South Africa was established by the then Minister of Public works in 1969.
- It serves the construction and building industry by providing valuable specialised testing of new and innovative systems.
- The technical assessment serves the construction and building control officials with an authoritative technical scientific assessment of system performance.
- This enables them to be able to make expert judgement on the suitability or otherwise of a particular product in their areas of jurisdiction.
- This strategic assistance provides valuable information and thereby enables modern construction method come to the fore.

ASA's Board oversight role

- The Department of Public Works and the Board of Agrément South Africa continued to play an oversight role over the entity.
- This is to ensure that the entity's mandate is fulfilled whilst also providing guidance under applicable circumstances.
- In this regard regular meetings, feedback sessions were held with the Department of Public works.
- Regular Board meetings were also held.
- This enabled the Agency to deliver on its mandate and fulfill its regulatory reporting requirements.

Minister's Foreword[1]

- Executive authority overseeing the activities of Agrément South Africa.
- The bill to create Agrément South Africa as a juristic persona was accented to by his Excellency, Hon. Mr Jacob Zuma, President of the Republic of South Africa on 13 December 2015.
- Agrément South Africa Act 11 of 2015 followed the prescribed parliamentary process.
- The draft bill was submitted to parliament and subsequently referred by the speaker of the national assembly to the portfolio committee for consideration.
- Agrément South Africa observed the process of the portfolio committee on public works to consider the bill until its approval with amendments. Agrément South Africa subsequently observed the consideration of the Bill by the National Council of Provinces until it was passed. Parliament then submitted the Bill to the President of the Republic of South Africa for assent.

Minister's Foreword[2]

- The enactment of the Bill paves the way for Agrément South Africa as a juristic persona and this will eliminate the previous challenge faced by the Department of Public Works with regard to the funding mechanism applied to the entity.
- The Department of Public Works is leading the newly formed Transitional Task Team that will oversee the formation of the newly formed public entity.
- The Transitional Task Team comprises representatives from the Board and management of Agrément South Africa, the Departments of Public Works and Science and Technology as well as the CSIR.
- The task team will manage the transitional arrangements to ensure Agrément South Africa continues to operate as a going concern.

Minister's Foreword[3]

- The Department of Public Works believes some of innovative construction technologies can play a key role in fast tracking much needed infrastructure development in rural areas.
- During the State of the National Address in 2016, his Excellency the President noted the role of science, technology and innovation as part of the nine-point plan to respond to sluggish growth.
- The President stated "The Department of Science and Technology will finalise the sovereign innovation fund, a public-private funding partnership aimed at commercialising innovations that are from ideas from the public and the private sectors".
- This statement clearly emphasises the important strategic role Agrément South Africa plays in the overall macro-economic development of South Africa.

Minister's Foreword[4]

- Agrément South Africa's rigorous assessment system facilitates the export of South African innovative products and construction systems to the rest of the global economy on the strength of the Agrément South Africa certification.
- The Agrément South Africa assessment procedure allows for advances in national legislation to be incorporated as part and parcel of its technical assessment criteria thus allowing the Agency to keep up with current amendments and changes in the global technical trends.
- Agrément South Africa is an important player within the Department of Public Works family and contributes to the entire Government's role of improving service delivery to the entire economy by executing its strategic mandate.

Chairman's review[1].

- The Board of Agrément South Africa continued to exercise its oversight role over the Agency.
- This ensures the efficient and sustainable management of public funds transferred from the Department of Public Works as well as the fees paid in by applicants' in the form of technical assessment and annual fees.
- This is vital for successful corporate governance of Agrément South Africa.
- The term of the current Board of Agrément South Africa was extended by the Minister of the Department of Public Works until such time as the new members of the Board take office.
- The extension of tenure of the current Board was to enable the smooth transition of the Agency to a juristic persona.
- It is viewed as a critical that the agency continue as a going concern without any disruptions in the execution of its important strategic mandate.

Chairman's review[2].

- Standard building regulations have been in existence for many years in many parts of the world,
- Globally, the Agrément system accommodate's systems and products falling outside the scope of National standards.
- The rigorous technical assessment process of Agrément South Africa ensures that once a certificate is issued the public can use the product or system with confidence as it has undergone rigorous scientific assessment and has been proven fit-for-purpose.
- Today's innovations may be tomorrow's familiar practices and many innovations currently certificated, may be considered as conventional in later years.

Board Governance[1]

- 8 Board members.
- Current Chairperson is Mr. Pepi Silinga.
- Strategic planning session held annually.
- The technical committee of the Board has the key responsibility to review evaluation reports and draft certificates and if satisfied approve them for certification.
- The technical committee relies heavily on external technical experts for their independent technical opinions. This is extremely vital for the credibility and independence of the expert opinion.
-

Board Governance[2]

- A technical expert is an individual who has the expert knowledge, experience, training or skill to provide an expert professional opinion on the fitness for purpose of a product or construction system intended for use in the construction of a building or infrastructure within the built environment.
- Agrément South Africa selects technical experts who are recognised as industry leaders within their profession.
- This enables their professional technical expert opinions to be accepted and respected within the construction industry.
- The Board ensured Agrément South Africa was well governed.
- Financial statements are audited and received a clean audit report.

Board Meetings[2]

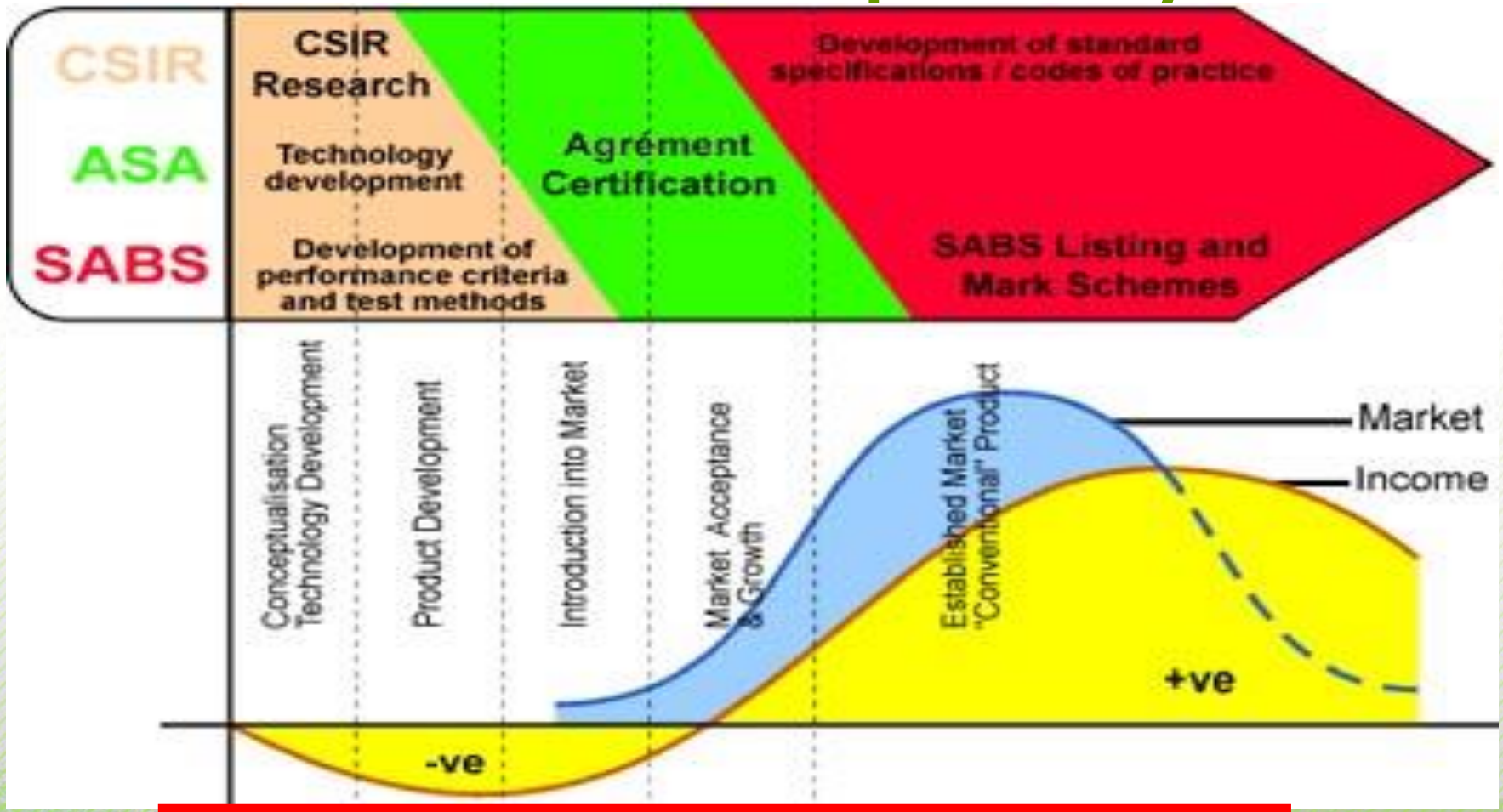
2015 -2016 ACTUAL	Rate	Board Meeting Attended	Technical Meeting Attended	Remuneration Board Meeting	Remuneration Technical Meeting	Travel Expenses	TOTAL
Adelaide Ranape	2 296.00	2	-	4 592.00	-	91.60	4 683.60
Denzil Fredericks	2 296.00	1	-	2 296.00	-	91.60	2 387.60
Hans Ittmann	2 296.00	3	2	6 888.00	4 592.00	458.00	11 938.00
Act Chair H Ittmann	3 784.00	1	2	3 784.00	7 568.00	274.80	11 626.80
Ntebo Ngcobo	2 296.00	3	3	6 888.00	6 888.00	3 297.60	17 073.60
Jeffery Mahachi	2 296.00	1	-	Public rep	Public rep	Public rep	-
Act Chair J Mahachi	3 784.00	2	3	Public rep	Public rep	Public rep	
Pepi Silinga	3 784.00	-	-	Public rep	Public rep	Public rep	-
Mariana Marneweck	2 296.00	2	3	Public rep	Public rep	Public rep	-
TOTAL				**24 448.00**	**19 048.00**	**4 213.60**	**47 709.60**

Core business

Vision: To be a world-class technical assessment agency

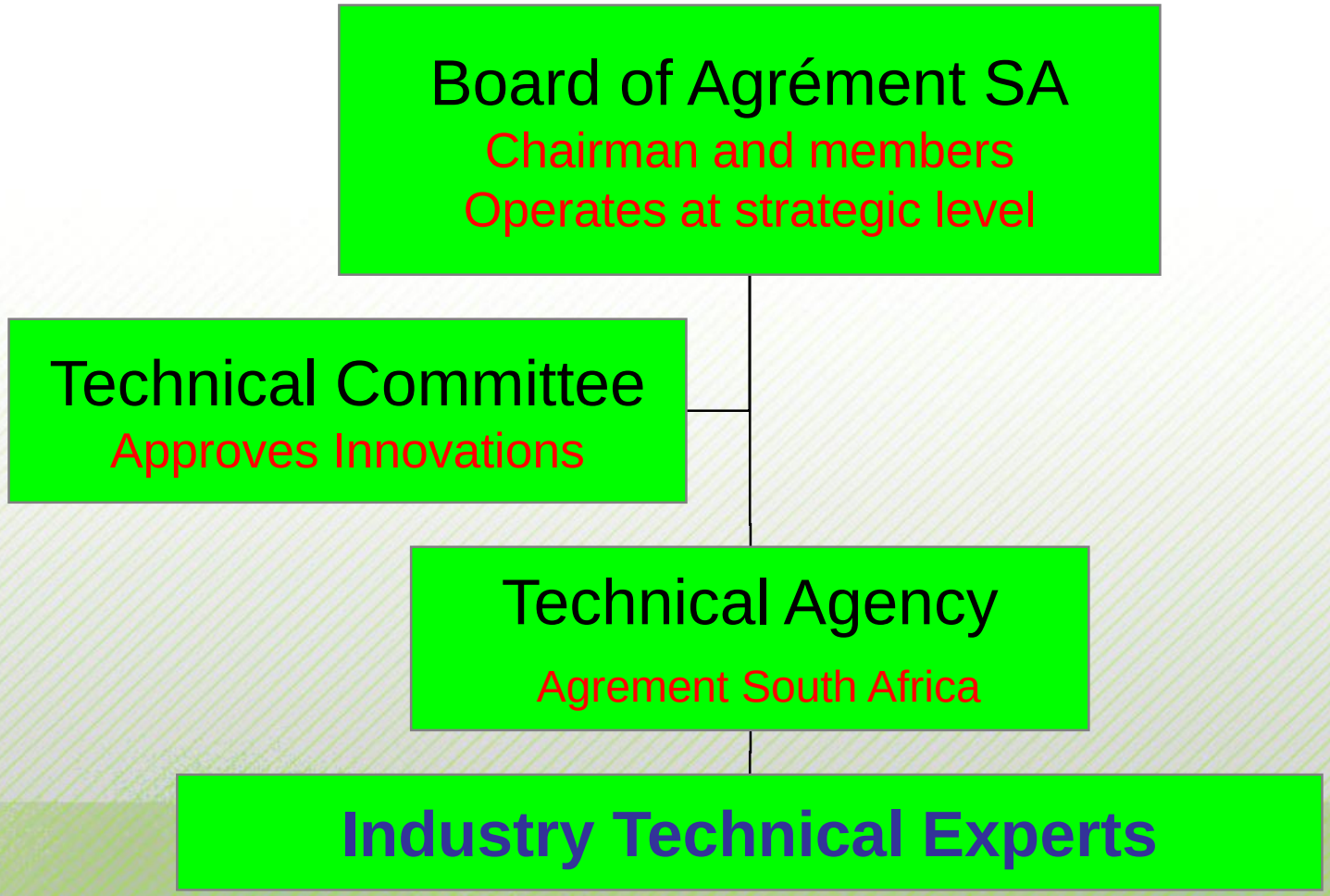
Objective South African centre for the assessment and certification of innovative non-standardised construction products, systems, materials, components and processes, which are not fully covered by a South African Bureau of Standard standard or code of practice.

Product Development Cycle



BUILT ENV. PROFESSIONALS

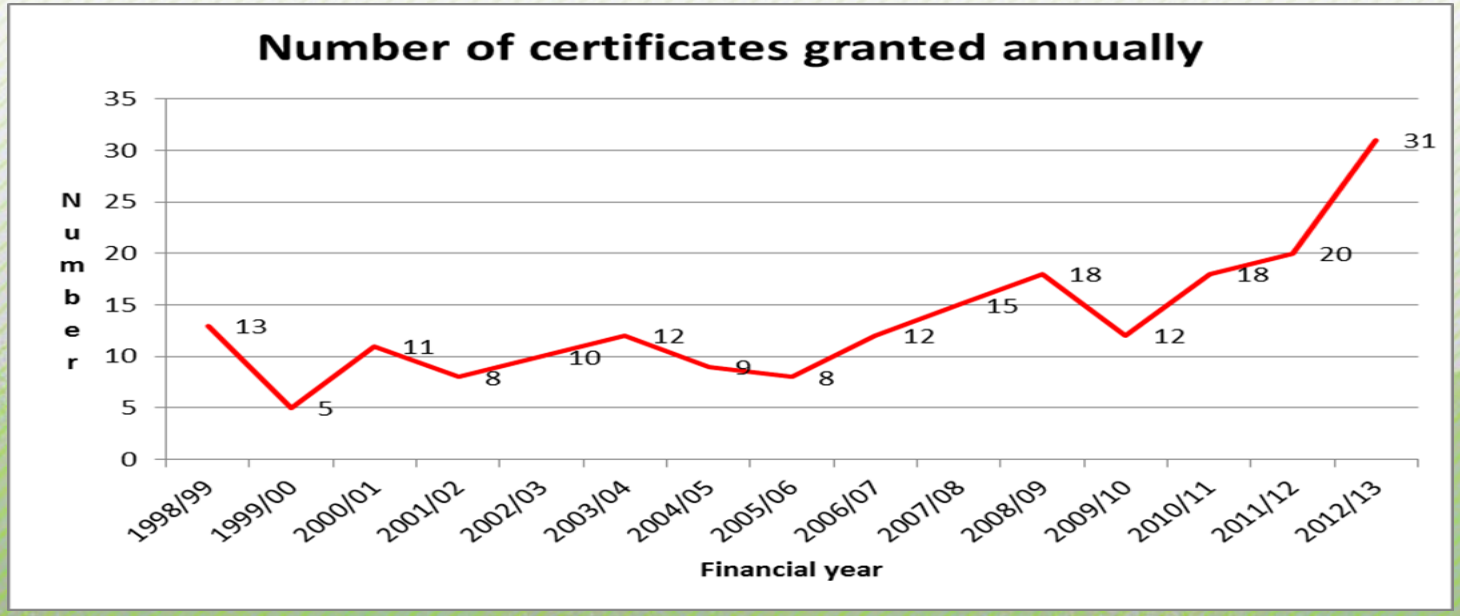
Organisational Structure



Benefits of Agrément certification[1]

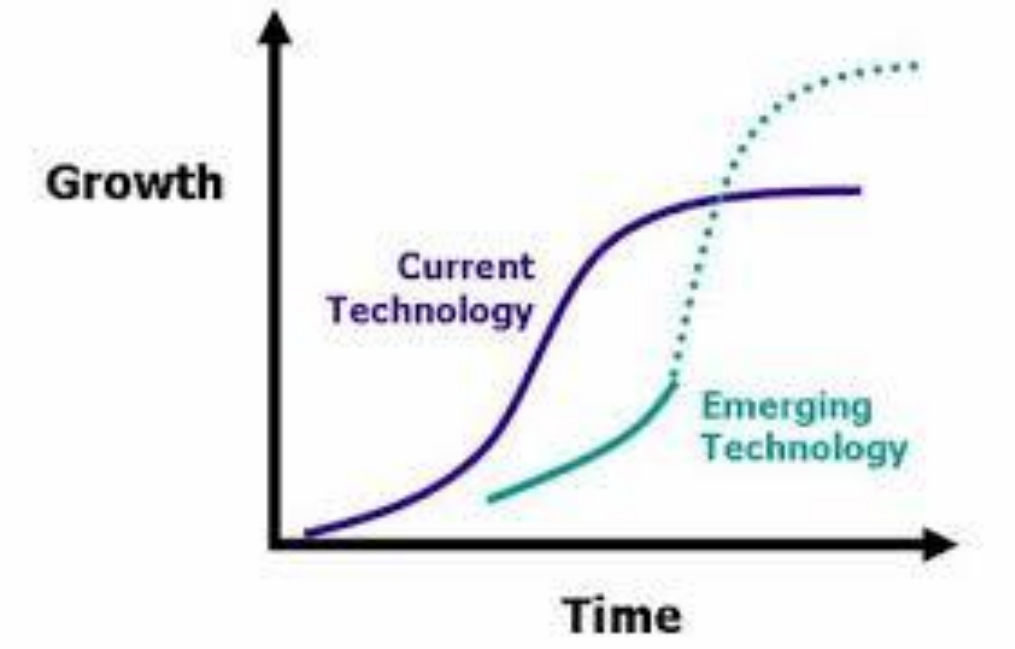
Technical conduit to modern, innovative, new and improved construction and building materials.

- Van lead to improved performance of infrastructure due to advancements in products & building systems
- Can leads to improvement of existing products
- Can lead to doing more with less



Benefits of Agrément certification[2]

- contribute to accelerated infrastructure development
- Reassurance of fitness of purpose
- Authoritative assessment of system performance
- Can effectively address housing backlog



"Modus Operandi":The Performance Concept

- Agrement South Africa receives from members of the public, innovative construction systems & products, for which there are no national standards or codes of practice.
- Agrement carries out holistic & comprehensive technical assessments to evaluate the suitability of the product or systems as being "fit for purpose" or not.
- Independent & authoritative based on actual tests carried out.
- Define performance in use without specifying how the performance will be attained.

"Modus Operandi":The Performance Concept

- Develop performance criteria (Criteria for local conditions developed by a team of experts).
- Develop suitable test methods.
- Measure actual performance.
- Judgement of acceptability in light of actual performance.

Typical Scope of Evaluation

- structural strength & stability
- water penetration and rising dampness
- thermal & energy performance
- performance in fire
- quality management system
- Conformity to National Building Regulations
- condensation
- acoustic performance
- accuracy in building
- durability

Achievements measured against mandate

- Agrément South Africa serves the consumer interest by providing assurance of fitness-for-purpose of innovative, non-standard construction products as well as on-going quality assurance.
- Agrément South Africa works with the construction industry in the development of cost-effective, innovative and non-standardised construction technology.
- Agrément South Africa disseminates correct, objective and relevant information to all concerned in respect of the technical, socio-economic and regulatory aspects of innovative and non-standard construction technologies.

Achievements measured against mandate

- Agrément South Africa continues to support policy makers at all levels to minimise the risks associated with the use of innovative technologies. The agency's staff members are actively involved in the SABS's standards generation committee and various other technical committees.
- Agrément South Africa supports the application of the National Building Regulations.
- Agrément South Africa actively maintains international links with peer organisations and continues to support the South African construction industry in its export activities by facilitating the approval of South African innovative construction products to countries abroad.
- Agrément South Africa continues to facilitate the acceptance of innovative products within the context of the government's new priorities and policies.

Performance Outputs

List of certificates granted.

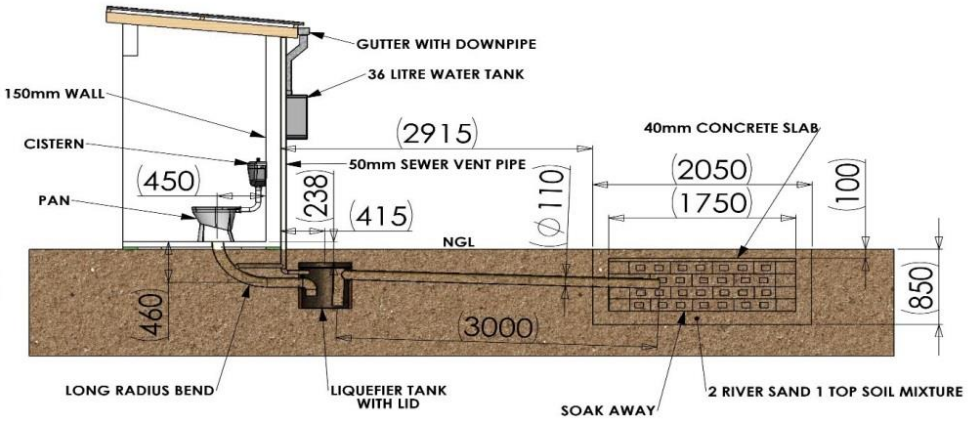
Certificates approved

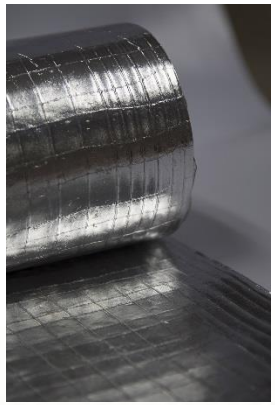
Abacus Ezee Space Building System
is made up of a standard 6100 mm long x 3050 mm wide x 2850 mm high exoskeleton steel frame. The frame comprises a steel exoskeleton with four corner posts and 1200 mm wide x 2480 mm high x 73 mm thick panels which are slotted between the corner posts.

Besta Board Building System is a single-storey structure that utilizes factory produced Fibrous Magnesium Oxide (MgO) boards and a light-weight steel superstructure that is sub-supported with a hot-dipped galvanised light-gauge steel frame.

Boen Eco Solutions Building System is constructed with prefabricated components that are assembled on site. It utilizes conventional concrete foundations and a 100 mm thick surface bed which are always the responsibility of a registered competent engineer.

Certificates approved





Bravomax Building System is a single storey structure that utilises factory produced wall panels. Foundations are conventional concrete rafts with thickened edge beams and thickened floor slabs under internal walls.

Direct Sanitation Application Low Flush System is a one-litre low flush sanitation system, owner maintained and odourless all-terrain flushing toilet.

The Durafoil DSD Reflective Roof Insulation Foil is a six layer composite consisting of two layers of aluminium foil laminated to each other with one layer of polyethylene, reinforced with one layer of fibreglass scrim and two layers of graded polyethylene**.**

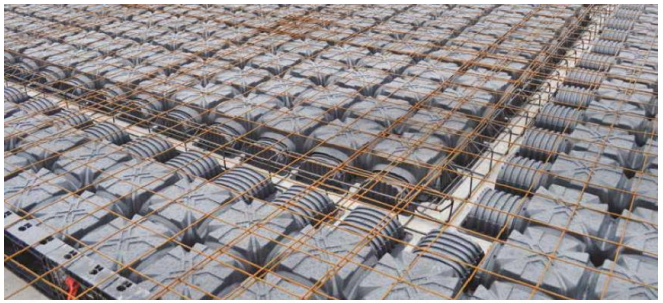
Certificates approved

Ecobond, a non-traditional soil stabilizer, is a modified bitumen emulsion polymer. It is used for stabilizing road base construction materials for both paved and non-paved gravel roads as well as in wearing course for gravel roads.

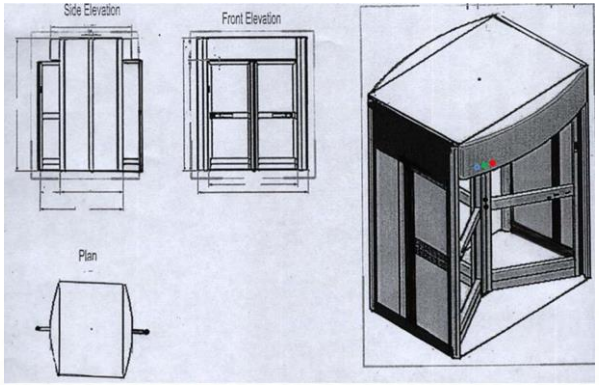
Everite Hebel Autoclaved Aerated Concrete (AAC) Building System is an ultra-light concrete masonry product that consists of basic materials that are widely available. These include sand, cement, lime, fly ash, gypsum, aluminium powder paste, water and an expansion agent.

GeoPanel Formwork System is a temporary shuttering system for the construction of concrete walls, columns and beams. It consists of a series of various sized panels joined together by the Geoplast fast-lock nylon handle. The formwork system is made of acrylonitrile-butadiene-styrene (ABS) polymer and other additives (pigments, polymer additives, antioxidants, and colourants).

Certificates approved



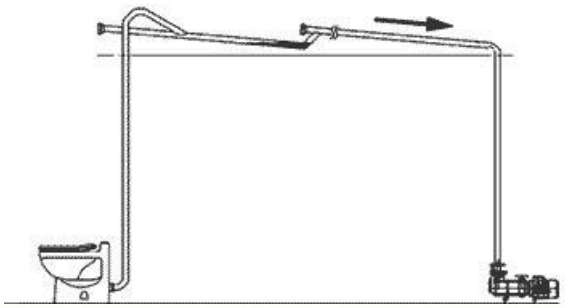
Geoplast Modulo Foundation System consists of a permanent formwork (Modulo) in recycled polypropylene (PP) that creates a system of pillars and arches supporting the ground floor slab once concrete is poured on them.



ITAS Access Control Doors are security doors that are fabricated in a factory using mainly steel, aluminium and glass. The doors include a variety of revolving, mantrap, bandit and anti-bandit doors.

I-Wall Building System is a single-storey structure that utilises factory produced panels that consist of 100 mm thick expanded polystyrene (EPS) for external walls and a 100 mm or 75 mm thick EPS for internal walls. Wire mesh, which acts as plaster key is secured to both sides of the wall panels.

Certificates approved



Jets Vacuum Sanitary System is a vacuum sewage collection and transport system designed for single or multiple flushing of toilets. The vacuum toilet system uses air, as opposed to water for the transport of sewage. A Jets Vacuumarator™ evacuates air from the drain pipes automatically upon activation of the activator button. .

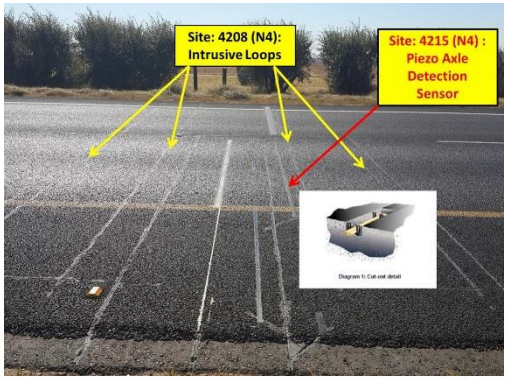
Kwikspace Modular Building System is a single storey structure that utilises factory produced wall and roof panels. An outer skin of 0.47 mm galvanised chromadek sheeting encapsulating polyurethane foam with a density of 36 kg/m3 and a 12 mm inner skin of magnesium oxide board (MgO)..

Makoro Water and Liquid Storage Tanks are moulded from polyethylene powder through a rotational moulding process. The raw materials used in the manufacture are Low Linear Density Polyethylene (LLDPE) polymer as well as H359 polymer supplied by Rotoflo and SASOL Polymers.

Certificates approved

Mikros Dual Stick-on Loop Traffic Monitoring System consist of a dual stick on loop, RAKTEL X010/20, MICROSAC Card, RAKMAN Power Manager Card, TELOOP8-100 Loop Card, Battery, Bituthene 5000 or similar tape and GPRS modem to download data (optional).

Permanent Dual Traffic Monitoring System with TELOOP8-F are permanent embedded loops into concrete or asphalt pavement covered with Colseal or similar approved sealant.

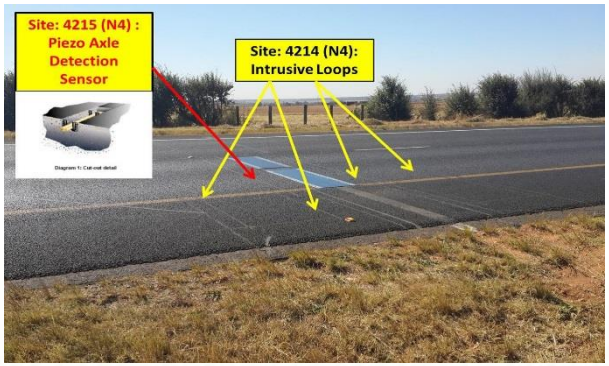


Permanent Dual Traffic Monitoring System with TELOOP8 an eight channel self-tuning high performance digital loop detector with a lightning protection unit called ZAP3 (powered using 12V).

Certificates approved

Permanent Axle Traffic Monitoring System with AUTOPIZO8 is a combination of dual intrusive loops and piezo sensors. The interface card evaluates the signals from vehicles and automatically scales the threshold.

Permanent Axle Traffic Monitoring System with PICOTEL8 is a fully digitally adjustable and does not require any potentiometer adjustments. The PICOTEL8 card allows for diagnostic (graphical) sensor display when using the TelWin program.

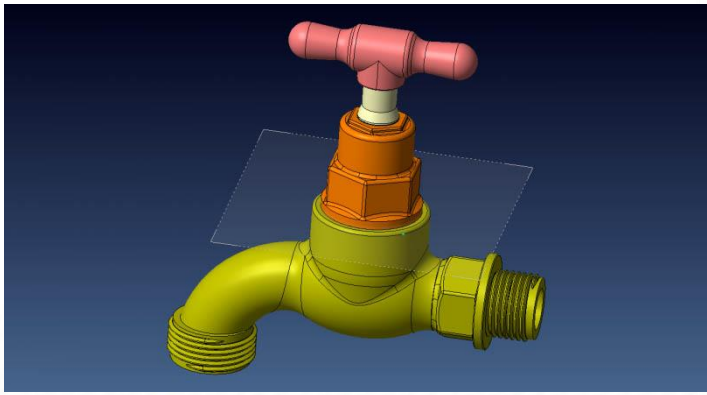


Permanent Axle Traffic Monitoring System with WYPROS I PWIMs can process the signals from up to four piezo weigh sensors.

Certificates approved

Modular Fibre Reinforced Concrete Building System is a fibre reinforced concrete structure, with a density of 900 kg/m3 to 2410 kg/m3. The walls are constructed by erecting pre-oiled temporary shutters. The internal face of the walls are further clad with a 40 mm thick EPS insulation sheet and a 6 mm thick fibre cement board.

Polyform Building System consists of expanded polystyrene (EPS) modules with a density of 12 kg/m3, forming a central core of which is filled with (reinforced) concrete of 25 Mpa. The modules are finished with 15 mm thick plaster both sides.



Pro Close slip-clutch garden bib taps are 15 mm in diameter, Class 2 screw down and manufactured from polyacetal resin.
The taps are intended for use for potable water shut off and garden hose pipe connection in all areas of South Africa.

Certificates approved

The Pro-Phalt Infrared Road Repair System is used to repair bituminous surfaces on pavements damaged by potholes and trench crossings. Repairs are effected by: heating the damaged area of the bituminous surface, reworking/recycling and raking the surface to tie in with existing surface levels and then compacting.

Shouguang Prefabricated Building System. The steel frames are manufactured from 78 mm x 1.2 mm thick hot-dip galvanised steel. The external and internal wall panels are tongue and groove steel edges consisting of 6 mm fibre cement boards on both sides encapsulating foam cement with a density of 517 kg/m3.

Selcrete™ Building System comprises a mixture of Expanded Polystyrene (EPS) beads, cement and solution of water with liquid binding agent to form hollow blocks. The blocks have a compressive strength of 7 Mpa The blocks are laid in conventional bonding method with mortar mixed with Sikalite®.

Certificates approved

Sterling Building System comprise two skins of 6 mm Fibre cement boards which are separated by 100 mm x 100 mm plastic spacers creating a 100 mm thick cavity. The cavity is filled with lightweight reinforced concrete. The internal face of the panel is further clad with a 40 m thick EPS insulation sheet and a 6 mm thick Fibre cement board.

The Sutherland Sheen Coating System is an interior and exterior two-coat application waterproofing acrylic emulsion paint for use in all regions of South Africa for all types of occupancy classifications on sound, suitably prepared, external and internal substrates

The Sutherland Tex Coating System is an exterior two-coat waterproofing marble coating system for use in all regions of South Africa for all types of occupancy classifications (SANS 10400: Table 1 of Regulations A (20) (1)), on sound, suitably prepared, external and internal substrates.

Certificates approved

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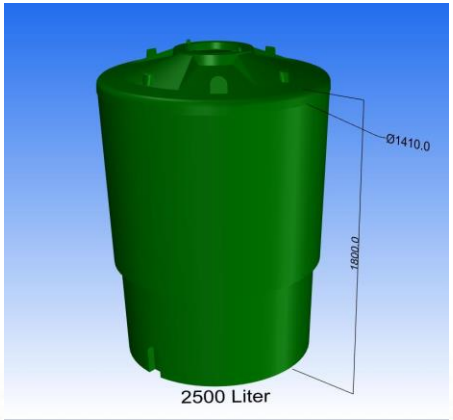

TCE Plastic Water Storage Tanks are manufactured through rotational moulding process. The raw materials used in the manufacture are Low Linear Density Polyethylene (LLDPE) polymer as well as the H359 polymer supplied by SASOL. The physical and chemical properties are specified in the SASOL Polymer data sheet.

Tensa Finger RSFD Bridge Deck Joint is a steel cantilever finger expansion joint suitable for light and heavy traffic loading, with movement range between 60 mm and 500 mm. It features noise reducing surfacing, due to the sinusoidal geometry of the interlocking fingers. The certificate covers the use in all areas of South Africa.

TES Non-Intrusive Loop Traffic Monitoring System consist of a dual stick on loop, PADVARK traffic logger, Battery, Bituthene 3000 tape and GSM modem to download data (optional). Generally, the stick-on loops are 3 m x 1 m x 50 mm (nominal dimensions) with twin flex polyvinylchloride (PVC) wires placed on concrete or asphalts pavements.

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Certificates approved

UL-M 20/10 is a thin bituminous road surfacing system generally laid to a nominal compacted thickness ranging from 20 - 40 mm. Principally it consists of a blend of modified bituminous binder Evatech U (EVA), graded crushed stone (aggregates) of nominal size 10 mm and a filler. The UL-M 20/10 is applied by a paver over a tack coat. It is designed to improve skid resistance. and, where required, reduce permeability..

Technical Outputs (Certificates Approved)

	Actual 2015/16	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
Applications received:	28	17	29	36	33	33	33
Evaluation offers made:	22	15	24	33	30	30	33
Evaluation offers accepted:	20	7	19	16	24	24	25
Certificates issued:	38	12	15	20	31	31	23
➢ Building products:	70	71	84	94	95	95	107
➢ Building systems:	53	80	98	102	116	116	127
➢ Roads products:	24	11	15	16	17	17	17
No. of Board meetings	4	4	3	4	4	4	4

Financial performance

Comparison of Actual Audited Annual Financial Performance With Previous Years

	2015/16	2012/13	2013/14	2014/15
Total Income	**13 883 126**	**9 947 491**	**11 056 266**	**11 660 485**
Grant Received	*10 268 368*	*8 692 992*	*9 121 053*	*9 667 544*
Contract Income	***3 600 093***	***1 240 339***	***1 930 963***	***1 983 429***
Local private sector	*3 326 926*	*1 138 529*	*1 688 133*	*1 823 233*
Local Public Sector	*19 000*	*31 400*	*5 000*	*0*
International Sector	*254 167*	*70 400*	*237 830*	*160 196*
Other income	***14 665***			***9 512***
Total Expenses	***13 519 369***	***10 298 870***	***10 911 181***	***11 475 091***
Employee remunerations	*7 215 711*	*5 411 237*	*5 624 813*	*5 927 633*
Depreciation	*274 623*	*439 947*	*278 171*	*516 002*
Operating Expenses(admin)	*6 029 035*	*4 447 686*	*5 008 197*	*5 031 456*
Margin before Interest	**363 757**	**-351 379**	**145 085**	**185 394**
Finance Income	162 267	185 755	162 442	181 848
Margin for the year	**526 024**	**-165 624**	**307 527**	**367 242**

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TEAM: Together Everyone Achieves More