

Agrément South Africa

PRESENTATION TO THE PARLIAMENTARY PORTFOLIO COMMITTEE

FOR

THE DEPARTMENT OF PUBLIC WORKS

ON 24th MAY 2011

ON STRATEGIC PLAN AND BUDGETS FOR 2011/12

Joe Odhiambo, CEO Agrément South Africa



Thursday, 12 May 2011

Vision & Mission

- **Vision**

To-be world class technical Assessment Agency

- **Mission**

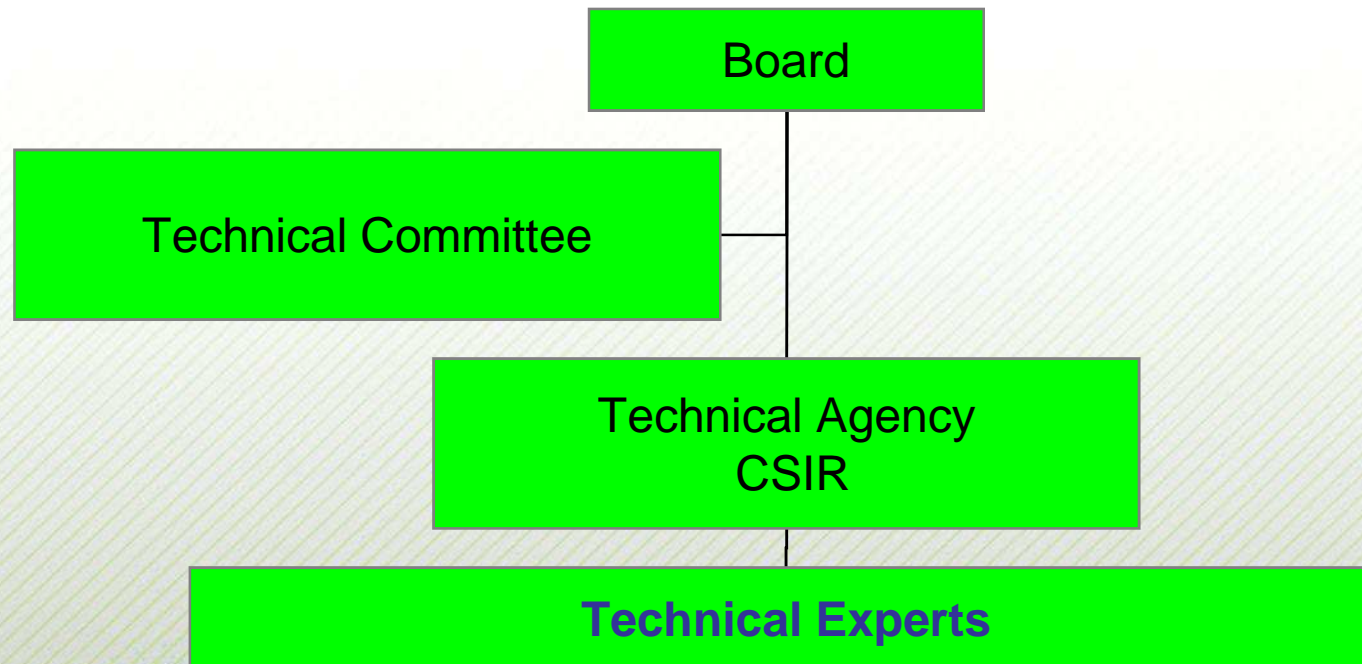
To promote the government's objectives of economic development, good governance and raising living standards and prosperity by undertaking technical assessment and certification of non-standard construction products in South Africa

Impact and Achievements¹

- Exceeded all projections of outputs to date
- Support 5 Key priority areas of Government & DPW
- Economic development
- Infrastructure
- Rural development
- Sustainable resource management
- Improve public service delivery



Organisational structure



| | Actual 2010/2011 | Target 2011/2012 |
|---|-----------------------------|-----------------------------|
| Applications received: | 36 | 38 |
| Evaluation offers made: | 32 | 34 |
| Evaluation offers accepted: | 25 | 28 |
| Certificates issued: | 18 | 20 |
| Certified systems under custodianship: | | |
| <input type="checkbox"/> Building products: | 86 | 90 |
| <input type="checkbox"/> Building systems: | 99 | 105 |
| <input type="checkbox"/> Roads products: | 15 | 18 |
| Board's Sub-Committee meetings: | | |
| •Technical | 4 | 4 |
| •Human Resources | 4 | 4 |
| •Audit and Risk | 4 | 4 |

Benefits of Agrément certification¹

Technical conduit to new and improved standardized building materials.

- Improved performance of building due to advancements in products & building systems
- Leads to improvement of existing products
- Can lead to doing more with less
- Can help service delivery by delivering housing at a faster and much cheaper rate
- Can effectively address housing backlog



Benefits of Agrément certification²

Agrement works together with Government to build better communities

- ASA certification emphasizes socio-economic aspects & contribute to accelerated infrastructure development
- Supports Governments promise of developing affordable, acceptable & suitable housing thus creating a better life for all.
- Enhance products job creation potential to support EPWP
- Sustainable products and construction systems
- Reassurance of fitness of purpose
- Authoritative assessment of system performance
- Accepted and recognised by local authorities and financial institutions

Thursday, 12 May 2011



Governance Matters

- **Institutional interaction** needs to be clarified with CSIR & DST. Agreement to report to DPW.
- Nomination of **Board chairperson**
- **Cabinet notification** of Board
- Working together with government Agrément has achieved much – but much more can be done by giving the agency **legal mandate to act** & criminalising defaulters of laws & standards
- **Financial:** Can achieve much more with further financial support
- 2011/12 amount R9 421 000 subjected to VAT

Governance

A NEW BOARD WAS ESTABLISHED

- The Board to be inducted by the Minister of Public Works and the following will be articulated:
 - **To raise standards in construction industry**
 - **Develop new objectives for quality and quantity of outputs**
 - **Make a difference in the lives of South Africans by enhancing service delivery through testing and approving improved construction products and systems**
 - **Lead to a better life to all**

Compliance issues

In compliance with corporate governance;

- The board will establish the following sub-committees:
 - Human resources and Remuneration Committee (REMCO)
 - Audit Committee
 - Risk Management (RM) Committee
 - Technical (TeCo) Committee
 - This will ensure adequate corporate governance in compliance with treasury and national requirement
 - This will ensure proper fiduciary management

B oard Members



Mr M Slinge (Chairperson)



Mr L Moshé



Ms M&E Chona



Ms N Shabalala



Mr M Marler



Mr SM Seane



Mr EJ Kruger



Mr CM Noyana



Dr MS Tayob



Ms Ngcobo



Mr S Malebye



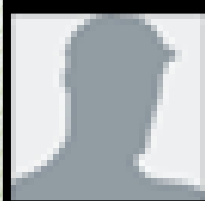
Ms Nteboheng Ngcobo
 MBA, Btech Civil Eng
 Lecturer
 University of Johannesburg



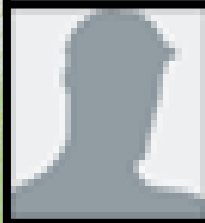
Dr Jeffrey Mahachi
 Executive Director
 NHBRC



Dr Liesbeth Botha
 PhD Electrical and Computer Eng
 Director
 CSIR



Ms Adelaide Ranape
 BProc
 Legal Manager
 WBHO

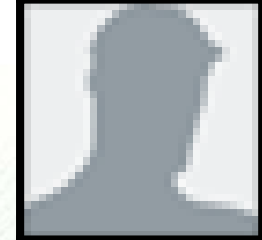


Mr AM Adam
 Former Chief
 Operations Officer
 DPW

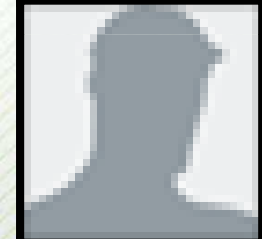
Mr Mninawe Pepi Silinga
 Masters Civil Eng
 CEO
 Coega Development Corporation



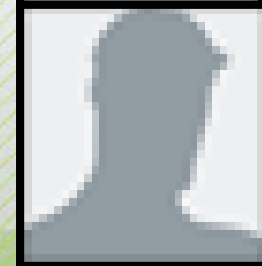
Mr MF Makamo
 Ndip Production and
 Ops Management
 Manager
 SABS



Ms Mariana Marnebeck
 B. Sc Hons Biochemistry
 Technical Specialist
 NRCS



Mr DC Fredericks
 Apprenticeship Boilermaker
 Managing Director
 OHS E-Consulting



Financial Projection 2011/12

| | | |
|--------------------------------------|-------------------|-------------|
| • Human capital costs | 5 200 000 | 50% |
| • Technical assessments, operational | 2 950 000 | 29% |
| - Quality monitoring | | |
| - Marketing | | |
| - Research into technical Criteria | | |
| • Infrastructure costs | | |
| - Overheads & Indirect Running Cost | 1 140 000 | 11% |
| - Finance, HR and administration | 1 010 000 | 10% |
| TOTAL | 10 350 000 | 100% |



Financial Projection 2012/13

| | | |
|--------------------------------------|-------------------|-------------|
| • Human capital costs | 5 600 000 | 50% |
| • Technical assessments, operational | 3 300 000 | 29% |
| - Quality monitoring | | |
| - Marketing | | |
| - Research into technical Criteria | | |
| • Infrastructure costs | | |
| - Overheads & Indirect Running Cost | 1 220 000 | 11% |
| - Finance, HR and administration | 1 120 000 | 10% |
| TOTAL | 11 240 000 | 100% |

Financial Projection 2013/14

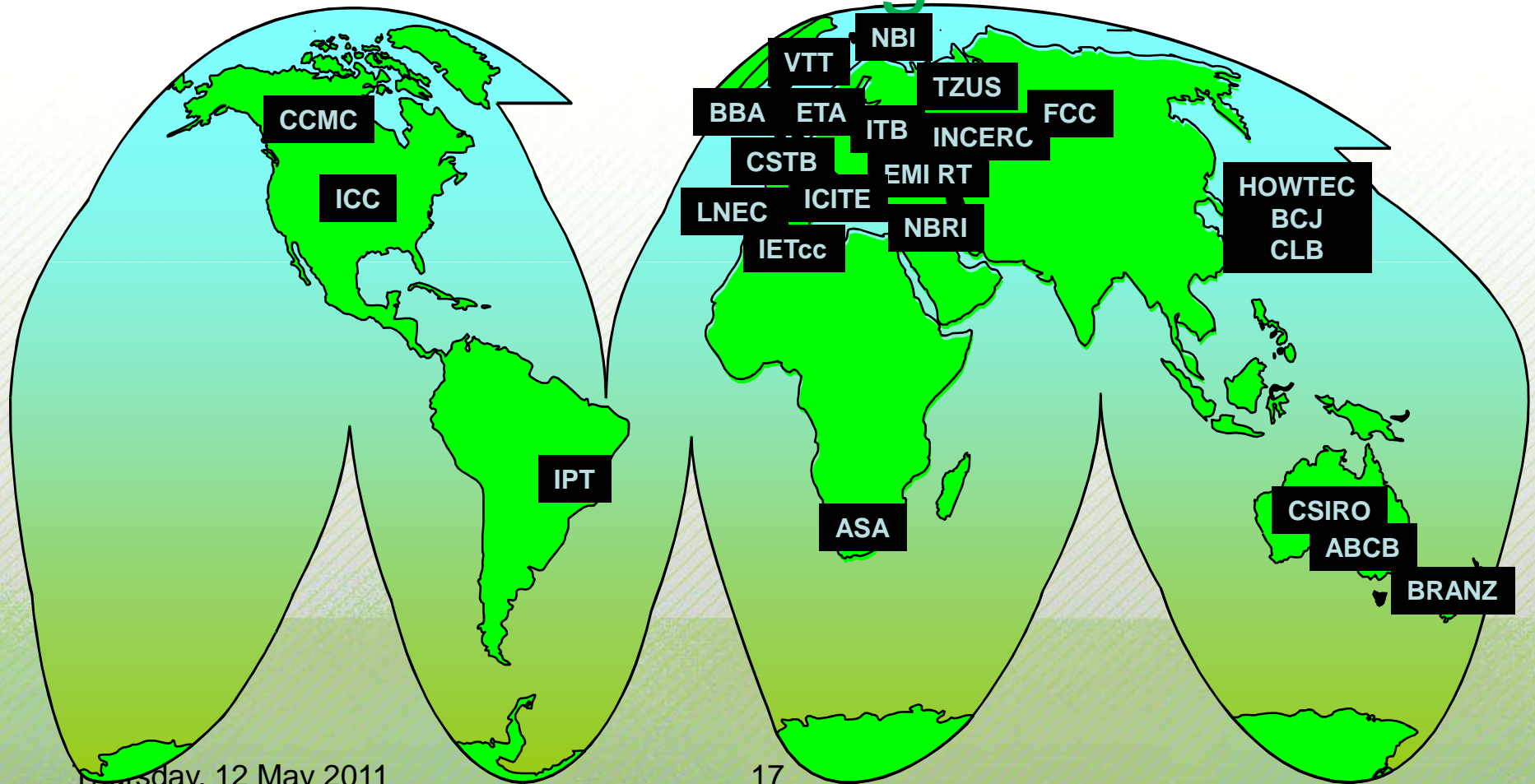
| | | |
|--------------------------------------|-------------------|-------------|
| • Human capital costs | 6 050 000 | 50% |
| • Technical assessments, operational | 3 500 000 | 29% |
| - Quality monitoring | | |
| - Marketing | | |
| - Research into technical Criteria | | |
| • Infrastructure costs | | |
| - Overheads & Indirect Running Cost | 1 360 000 | 11% |
| - Finance, HR and administration | 1 210 000 | 10% |
| TOTAL | 12 120 000 | 100% |

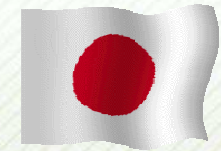
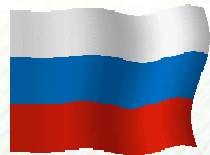
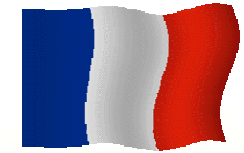
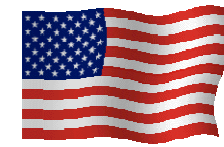
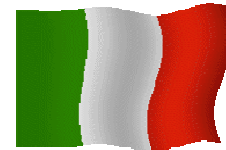
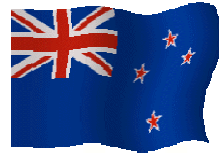
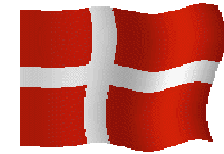


Human Resources Costs 2011/12

| | | |
|--------------------------------|------------------|------------|
| • Casual Employees | 312 003 | |
| • Pensionable Salaries | 4 113 432 | (Avg 343K) |
| • Travel Allowance | 53 172 | |
| • Pension Fund Contribution | 348 670 | |
| • Medical Aid | 51 678 | |
| • Skills Development Levy | 50 537 | |
| • UIF | 19 677 | |
| • Service Bonus with Severance | 20 156 | |
| • Performance Service Bonuses | 214 159 | |
| • Contribution Leave Gratuity | 16 515 | |
| • TOTAL | 5 200 000 | |

World Federation of Technical Assessment Organizations





WFTAO



12 May 2011



Challenges & Opportunities¹

- **Technical agency** : Technical assessment & project management skill
- **Technical committee:** Expert knowledge and recognized as experts by their peers in their field.
- **Interpret results of tests** conducted to assess whether products meet Agrément performance criteria or not.
- **Technical Infrastructure:** Accredited laboratories to carry out the actual tests on products and building systems and produce test reports on performance

Challenges & Opportunities²

- **Legislative framework**

Delegated to the Chairperson of the Board of Agrément South Africa, when acting in conjunction with the wishes of the Board

- **Environmental sustainability**

- **Energy Efficiency**

- **Integration**

Research and product development

Awareness and visibility

Close working relationships with stakeholders by forming strategic alliances

- **Enforcement of building control legislation**

- **Capacity to create jobs and employment**

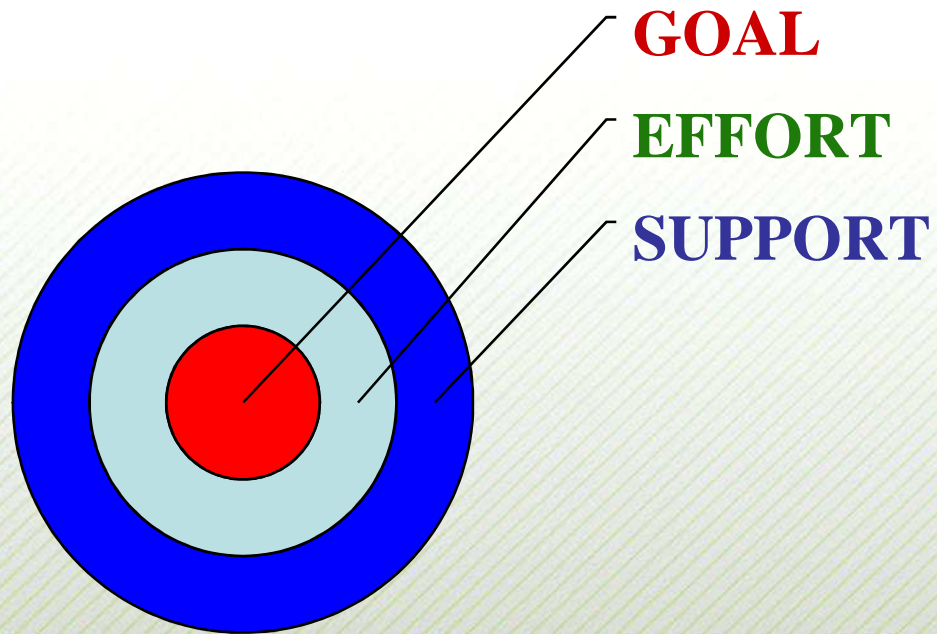
- **Training and internship opportunities**

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Thank you...



Roadcem non-traditional soil stabiliser

- ROADCEM is a brand name for a product consisting of earth-alkaloids and zeolites which is used in conjunction with cement for road based stabilization.
- It reacts with cement and bond in-situ soil to form a water resistant, elastic and high strength composite material



Benefits

- Highly durable product
- Results in a high quality sub-base
- Efficient utilisation of resources (Materials)
- Leaching potential is significantly reduced
- Can be installed by unskilled workers
- Job creation potential



House-In-A-Can Building System

- 100 mm thick lightweight interlocking sandwich in-fill panels comprising a polystyrene beaded concrete Core encapsulated in two layers of 4,5 mm thick magnesium oxide sheets.
- light gauge structural steel roof trusses with light or heavyweight roof cladding and insulated ceilings

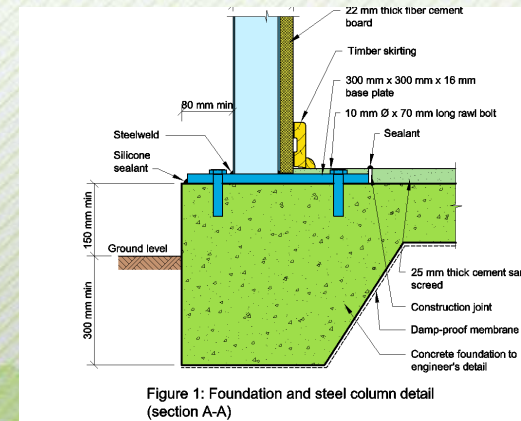
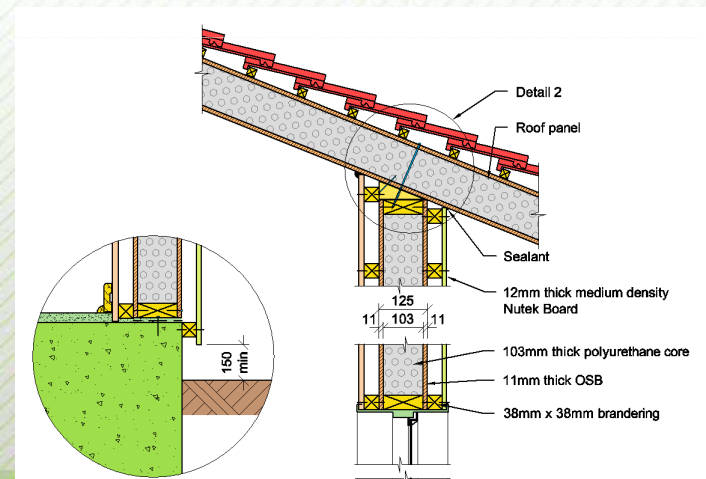


Figure 1: Foundation and steel column detail (section A-A)

MG SIP Building system

- single storey structure that utilises factory produced wall and roof panels. Walls are 2400 mm x 1200 mm x 125 mm thick lightweight interlocking sandwich panels comprising a polyurethane (PU) core encapsulated in two layers of 11 mm thick oriental strand board (OSB). They are clad internally with 15 mm thick fire-resistant gypsum plasterboard and externally with 12 mm thick medium density Nutek board.



Blast Building system

- Internal walls are constructed from zincalume base rails, and clad both sides with 10mm thick magboard.
- All external walls are internally clad with 6mm thick magnesium oxide boards (magboard) secured at 300mm centres to the structural frame.
- Internal walls are insulated with 100mm thick fibreglass blanket wedged between the magboard linings.

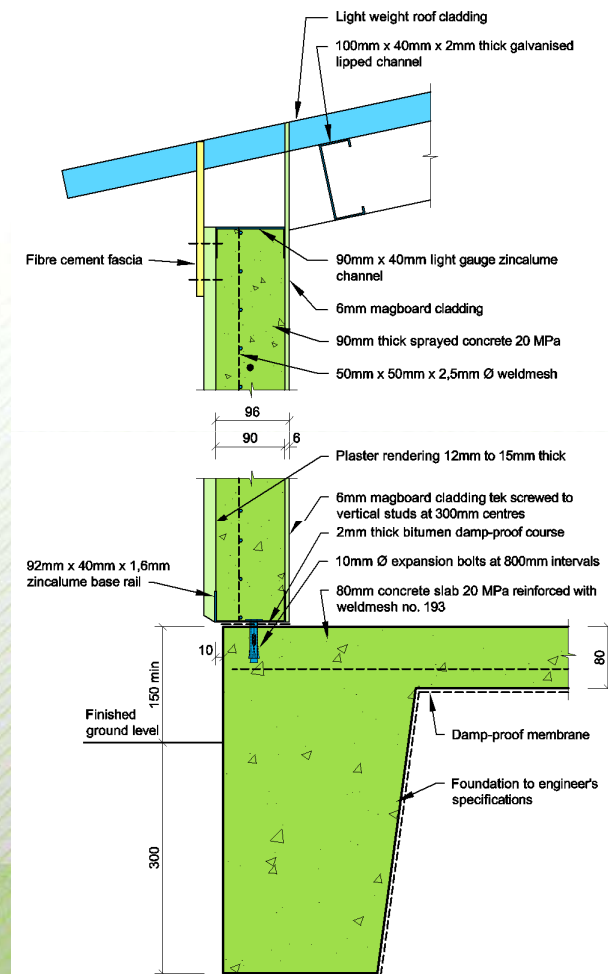


Figure 1: Section A-A

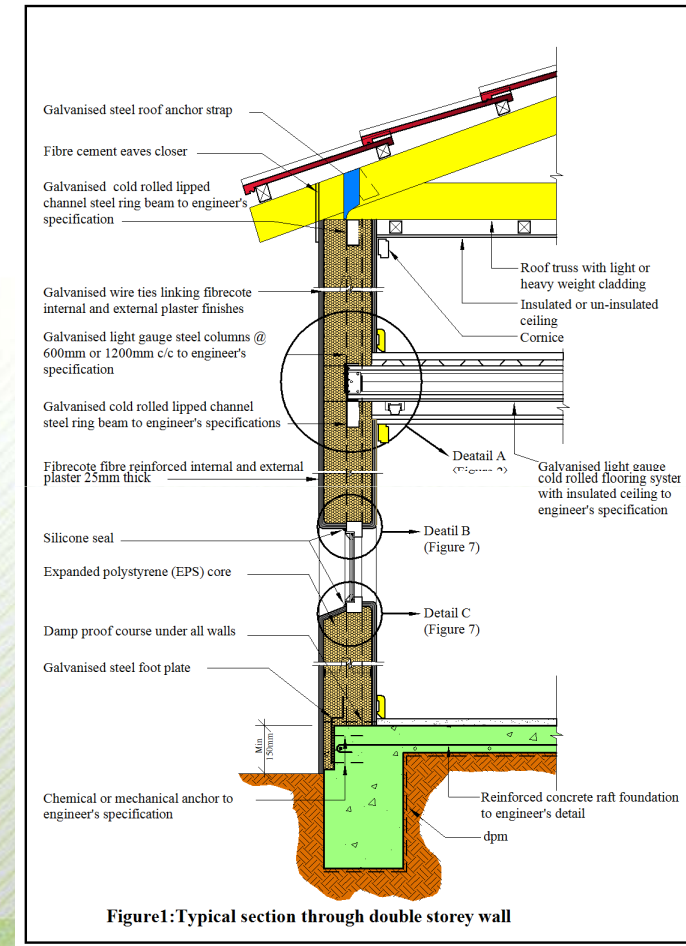
Imison 3 Building System

- concrete surface bed with thickened foundation beams
- galvanised light gauge, cold rolled structural steel frame core infill panels made up of:
 - expanded polystyrene (EPS) with a density of 16 kg/m³
 - galvanised steel reinforcing mesh cladding to both sides of the wall panel



Imison 3 Building System

- Alkali-resistant woven fibreglass reinforcing mat to both sides of the wall panel
- spray applied fibre reinforced plaster 25 mm thick
- a galvanised light gauge, cold rolled structural steel, first floor dry deck
- timber or light gauge, structural steel roof trusses.
- light or heavyweight roof cladding



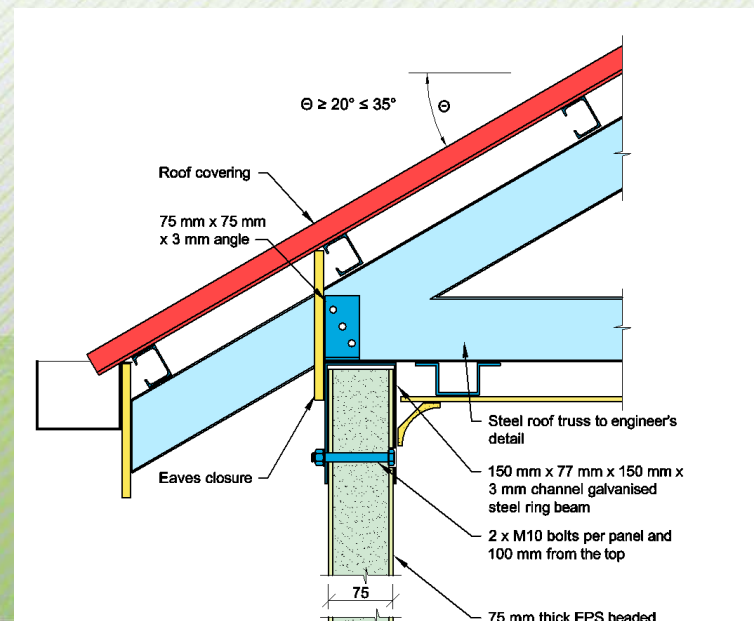
Winklink Fibre Cement Window

- The WinKlik FibreCrete Windows comprise a combination of fibre cement frames (mullions and transoms), aluminium sashes with monolithic or laminated glazing and ancillary components, viz, lugs, bolts, nuts and screws



Styrocon Building System

- 75 mm thick lightweight interlocking sandwich in-fill panels comprising a polystyrene beaded concrete core with a density of 650 kg m^{-3} , encapsulated in two layers of 4,5 mm thick fibre cement boards.
- light gauge structural steel roof trusses with lightweight roof cladding including ceilings which are always insulated



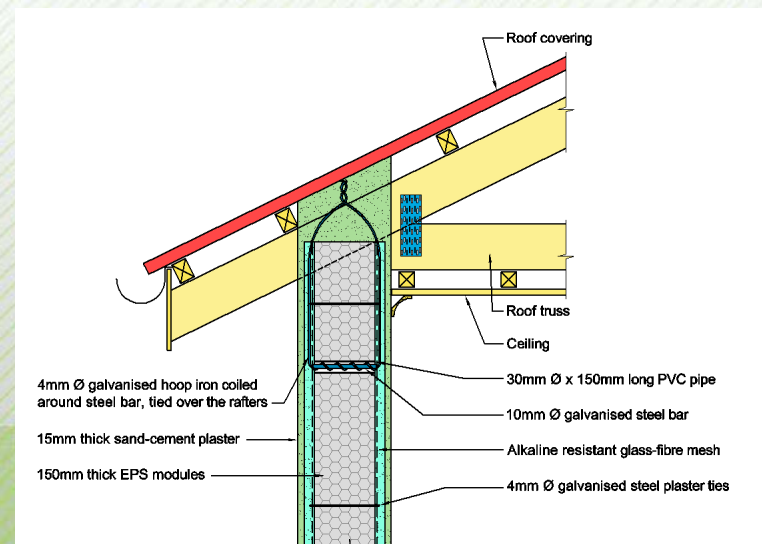
Enviro Prime

- Enviro Prime is an emulsified cutback bitumen prime coat.
- promotes adhesion between the base and upper pavement or surfacing layer by ensuring a sound and dust-free surface inhibit the ingress of water into the base.
- Enviro Prime has been developed as an alternative to tar-based primes and is safer to use by workers and to the environment



Mega Building System

- The walls comprise interlocking expanded polystyrene (EPS) core which act as permanent insulation.
- The EPS core for external walls is 2400 mm x 1200 mm x 150 mm thick and finished with one layer of 25 mm thick glass-fibre reinforced concrete (GFRC) and 15 mm thick sand-cement plaster, both sides.



Infra-Flash Self Adhesive Sealing

- Infra-Flash Self Adhesive Sealant comprises of creped, laminated aluminium foil achieving up to 60% stretchability, one side coated with butyl adhesive and protective release foil. Infra-Flash is available in widths of 200, 250, 300, 450, and 600 mm and 5.0 m long roll.
- Infra-Flash Self Adhesive Sealant is available in anthracite, terracotta and brown colours.



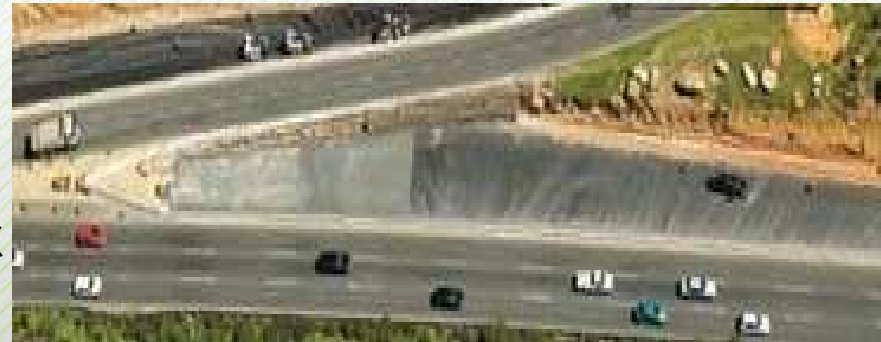
FrictionPave surfacing system

- Frictionpave is a thin bituminous surfacing system with a nominal compacted thickness of between 16 and 25 mm.
- The system consists of 9.5 or 13 mm nominal maximum aggregate size (72-80% passing), open graded, Ultra Thin Friction Course (UTFC) which is placed on tack coat by using a self-priming paver.
- FrictionPave is an ultra-thin (open-graded) asphalt friction course (UTFC), designed specifically for use as a functional layer on new or structurally sound pavements



Benefits

- FrictionPave is a superior wearing course solution
- Has enhanced skid resistance,
- Has water spray reduction,
- Provides noise reduction,
- Provides waterproofing
- Has a long-term functional and seal life
- Is an internationally proven technology with a 25 year track record
- A total of 2,000,000 m² has been constructed on roads and airports throughout South Africa



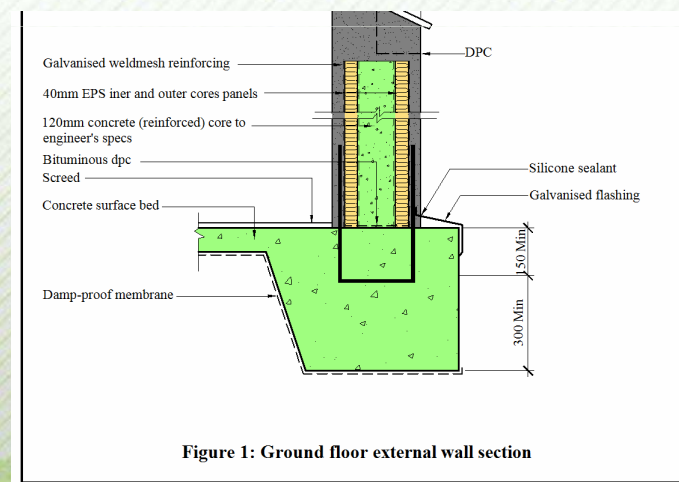
UL-M20/10 Road Surfacing System

- UL-M 20/10 is a thin bituminous road surfacing system generally laid to a nominal compacted thickness ranging from 20-40mm. Principally it consists of a blend of modified bituminous binder *EvatechU* (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 provide improved skid resistance and reduce tyre/surface noise levels and, where required, reduce permeability



Ikhaya Brick Building system – Amendment

- Ground floor wall panels comprise two cores of 40mm thick EPS with a density of 16kg/m³, spaced 120mm apart forming a cavity that is filled with (reinforced) concrete.
- The first floor slab is the TASS expanded polystyrene coffered flooring system.
- First floor wall panel consists of a core of 80mm thick EPS. Wall panels are corrugated and are 1,2m wide x 2,4m high.
- Galvanised weldmesh to both sides of the EPS is electro-welded to galvanised wire ties passing through the EPS core.



Spunsulation roofing undertile membrane

- The Spunsulation 5 Roofing Radiant Barrier is manufactured from pigmented ultraviolet light-resistant, non-toxic flame retarded, non-woven spunbond polypropylene membrane laminated by means of homogenous polyolefin based film web to both sides of a layer of aluminium foil.

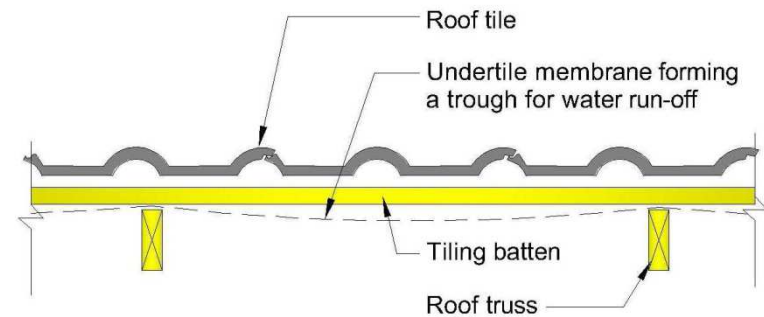


Figure 1: Typical cross-section of roof showing position of undertile membrane

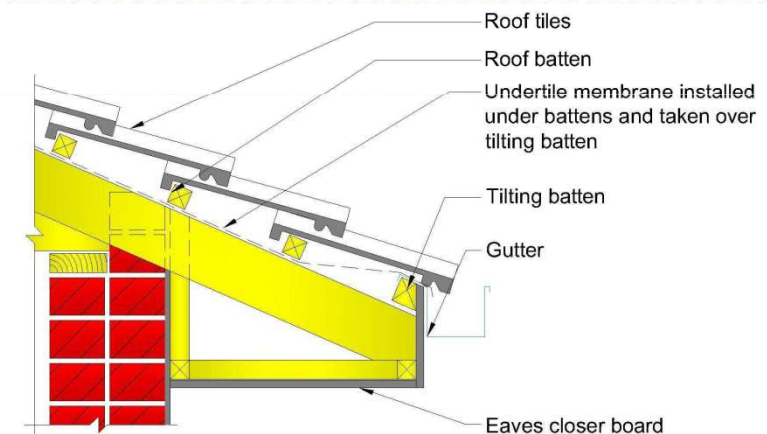


Figure 2a: Closed eaves detail

JoJo Septic Tanks

- The certificate covers the use of the JoJo Liquid Storage Tanks.
- They are available in vertical and horizontal shapes for water and chemical storage, respectively, for use in all regions of South Africa for all types of occupancy classification (SANS 10400: Table 1 of regulation A (20) (1)).



Vela Steel Building System

- The Vela Steel Building System is based on the Structural Insulated Panels (SIP) incorporating a steel frame which enhances the structural integrity of the system.
- The composite wall panels comprise Autoclaved Magnesium Oxide board encapsulating polyurethane core and polystyrene blanks between panel cavities.
- The walls are finished with armour coat waterproof paint. Where required, the panels are delivered on site with factory fitted window and door frames.



Vela Steel Building System

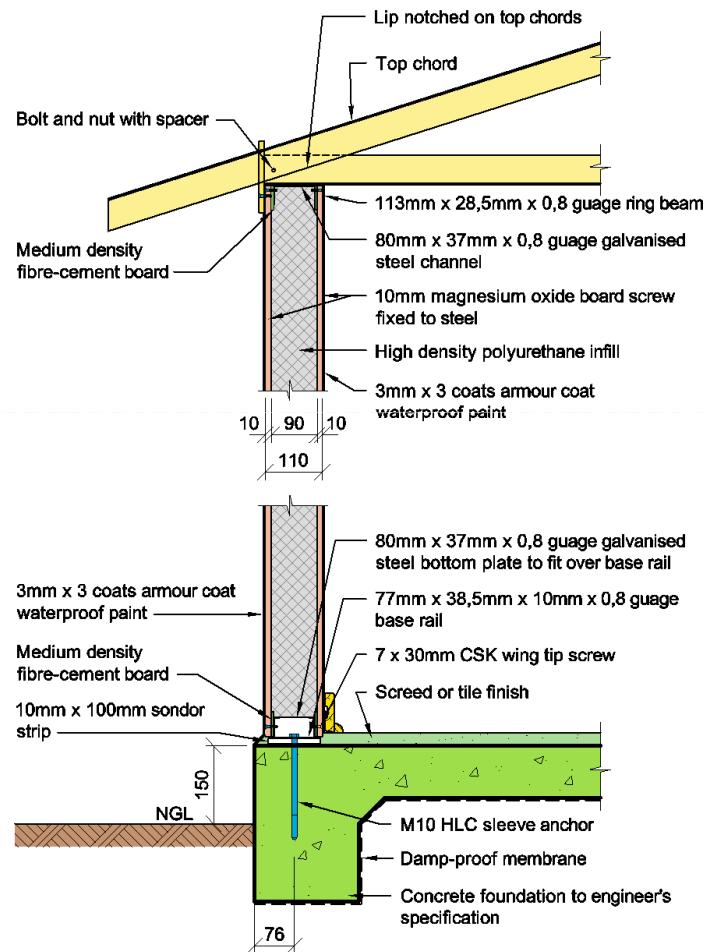


Figure 1: Typical section through external wall

GREMENT
SOUTH AFRICA

construction product assessments