GreenCape is a Sector Development Agency that was established by the Western Cape Provincial Government and the City of Cape Town to unlock the investment and employment potential in the green economy in the Western Cape. Through partnerships with government, industry and academia, GreenCape provides a platform to tackle the barriers to the growth of the green economy in the Western Cape and help make the Western Cape the investment destination of choice for businesses involved in the African green economy.

We work across the energy, waste, water, built environment and agriculture sectors, understanding the opportunities and challenges by liaising with industry and government, and developing specific projects to tackle identified obstacles.

For more information on GreenCape, please visit www.green-cape.co.za.

GreenCape Sector Development Agency

Compiled by: GreenCape
Designed by: Design Infestation
Cover image: Central City Improvement District
The Western Cape Government has identified the green economy as a key area for growth and jobs. We aim to become the green economic hub of Africa by creating an enabling environment for businesses specialising in green products, design and fabrication.

The green building sector has shown huge growth potential, and with the introduction of the new building regulations (SANS 10400 XA) this growth is becoming a reality. The economics of building, and green building particularly, has shifted significantly in the last five years. This represents an opportunity to meet our infrastructure backlog through the provision of superior, alternative building products and techniques.

The private sector is a key partner in realising this ambition, as it will be their expertise that can be leveraged to provide solutions to the infrastructure and housing demands in the country.

The Western Cape, through its partnerships with 110% Green and the Cape Craft and Design Institute, has launched the pioneering ‘better living challenge’ to provide a platform to showcase solutions in the domestic residential context. This challenge will act as a focal point for innovative thinking.

I would like to welcome the first publication of this Green Building Material Catalogue for the Western Cape. This catalogue is a practical and useful reference guide for specific green building materials, providing support and information to the building community in the Western Cape. Embedding these green building principles in the province will give our companies a competitive advantage to meet the increasing demand for resource-efficient building materials in the Western Cape and the rest of Africa, and will help us to realise our ambition of becoming the green economic hub of Africa.

Alan Winde
Minister of Agriculture, Economic Development and Tourism
CONTENTS

01 Foreword
A few words by Western Cape Minister of Agriculture, Economic Development and Tourism, Alan Winde.

03 About this catalogue
The National Building Regulations and Building Standards Act (No. 103 of 1977) forms the basis of how buildings in South Africa should be constructed and developed to suit human habitation.

04 SANS Building Envelope
This section provides an overview of insulation requirements pertaining to relevant sections of the building envelope that are included in this catalogue.

06 Insulation
This section includes thermal and acoustic insulation used in roof assemblies of the building envelope.

12 Fenestration
This section comprises window frames and glazing systems.

18 Modular technologies
This section comprises those non-standardised technologies.

22 Walling
This section comprises masonry and non-masonry materials that are compliant with the requirements of SANS 10400 XA.

26 Coatings
This section comprises paints and coating systems that are Agrément certified.

30 Suppliers
A list of suppliers in the Western Cape for insulation, fenestration, modular technology, walling and coating products.

“Modulo does not need any maintenance. It is easily installed hence enabling the employment of unskilled labourers on site.” – Attilio, MD Geoplast SA

“Heavyweight clay brick walling is an ideal means of insulating buildings against noise. Even a single wall of clay brick is able to reduce noise dramatically.” – Corobrik
About this catalogue

The purpose of this catalogue is to introduce various building technologies that effectively comply with these new industry standards as a means to guide governance around green procurement of energy efficient building materials.

The National Building Regulations and Building Standards Act (No. 103 of 1977) forms the basis of how buildings in South Africa should be constructed and developed to suit human habitation. The New Building Regulations (NBR) were introduced in 2008. In 2011, the South African Bureau of Standards (SABS) introduced the SANS 10400: the application of the National Building Regulations. This code sets out prescriptive provisions that are deemed to satisfy the technical aspects of the new NBR. In 2011, in an endeavour to make our buildings more sustainable, and to decrease energy usage in South Africa, the XA (Energy Efficiency) part was added to SANS 10400 code.

Part X deals with environmental sustainability, and Part XA deals with energy usage in buildings.

Green building materials offer a wide variety of specific benefits to the building owner and building occupants. These include:

- Reduced maintenance/replacement costs over the life of the building.
- Energy conservation.
- Improved occupant health and productivity.
- Lower costs associated with changing space configurations.
- Greater design flexibility.

The design requirements for comfort and energy efficiency are influenced by climatic considerations. Energy intervention measures will vary from region to region as seen on page 4. To achieve the best results, building design and construction materials should be appropriate to the climate of a region.

PLEASE NOTE

Only structural components were considered in this catalogue, ranging from substructure (foundations, etc.), super structure (walling, modular technologies, etc.), fenestrations (glazing and window frames) roof assembly (sheets, insulation, etc.) and finishes (wall coatings paint, etc.). Heating and lighting appliances are excluded in this catalogue. The building materials and suppliers included in this catalogue are mainly Western Cape based. All the advertorials included in this catalogue are not personal endorsements by GreenCape in any way.
South African Bureau of Standards climatic zones

Building orientation and solar impact

The building should be compact in plan, with the rooms that are used most and the major areas of glazing placed on the northern side of the building to allow solar heat to penetrate the glazing during the winter months.

Fenestration

All light transmitting areas (including glazing material, framing and external shading) which form part of the building envelope are regulated in SANS 10400 XA.

Buildings with a fenestration area to net floor area per storey that exceeds 15% shall comply with the requirements for fenestration in accordance with SANS 204.

Glazing can be used to regulate heat energy losses and gains.
SANS BUILDING ENVELOPE

SANS 10400 XA requirements

Below is an overview of a few of the insulation requirements as specified in the SANS 10400 XA regulations. The insulation requirements vary according to the climatic zones.

Minimum total R-values for flooring

<table>
<thead>
<tr>
<th>Floors</th>
<th>R-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating system insulation</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum total R-values for walling

<table>
<thead>
<tr>
<th>Walling</th>
<th>R-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masonry (Climatic zones 2, 3, 4 and 5)</td>
<td>0.35</td>
</tr>
<tr>
<td>Non-masonry (Climatic zones 1 and 6)</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Minimum total R-values for roof assemblies

<table>
<thead>
<tr>
<th>Description</th>
<th>Climatic zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Required total R-value (m².K/W)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>Direction of heat flow*</td>
<td>Up</td>
</tr>
<tr>
<td>Estimated total R-values (m².K/W) of roof and ceiling materials</td>
<td>0.35 - 0.40</td>
</tr>
<tr>
<td>(Tiles and RhinoBoard ceiling only)</td>
<td></td>
</tr>
<tr>
<td>Estimated minimum added R-value of insulation (m².K/W)</td>
<td>2.30 - 3.35</td>
</tr>
</tbody>
</table>

The above table applies for roof surfaces with a solar absorption co-efficiency of 0.55 or greater.

*Indicates the direction in which the dwelling loses or gains heat loss through the roof in each climatic zone. The upwards (Southern Cape climatic zone) direction implies heat flow from a conditioned space through the ceiling or roof.
Insulation materials

This section includes thermal and acoustic insulation used in the roof assemblies of the building envelope. The thermal insulation provided in the catalogue includes bulk cellulose, board and reflective insulation.

Taxonomy and key benefits of thermal insulation

The bulk insulation materials included in this catalogue include cellulose fibre loose-fill, glass fibre, rockwool, recycled polyester boards and fibres, expanded polystyrene (EPS) and extruded polystyrene (XPS). The reflective foil membranes are included under the reflective insulation section.

The main function of insulation is the reduction of heat loss, contributing to the reduction of energy consumption and thus cost savings. The cost saving is derived from reduced costs of air-conditioning (Southern Cape climate is mostly temperate) in the summer and heating costs in the winter, respectively.

Thermal insulation summary

Thermal Insulation shall comply with minimum required R-values and be installed so that it:

- Abuts or overlaps adjoining insulation, or is sealed;
- Forms a continuous barrier with ceilings, walls, bulk heads or floors that contribute to the thermal barrier;
- Does not affect the safe or effective operation of any services, installation equipment or fittings; and
- Has the requisite fire performance.

Some insulation facts

- The R-value of reflective insulation is affected by the creation of airspace between a reflective side of the insulation and the building lining or cladding. Thus the reflective foil insulation should work with an air gap to be more effective. The R-value of bulk insulation is reduced if it is compressed.
- Insulate your home to keep it cooler in summer and warmer in winter. Save the electricity that would be used by heating or cooling.
- Bulk insulation can also be supplied with a reflective foil as a composite bulk insulation.
Thermal efficiencies are dependent on material thickness, density, age and operating moisture.” – St Gobain, Isover

<table>
<thead>
<tr>
<th>Products in market</th>
<th>Dimensions (thickness)</th>
<th>NRC</th>
<th>R-value</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bulk insulation materials</strong></td>
<td>Insulation supplied in roll form in varying densities and thicknesses result in a range of thickness specific R-values. Bulk insulation can be fitted over purlin, between purlin, in ceiling voids or cavity walls depending on the specific ratings determined by SANS 10400 XA. Densities of bulk insulation generally range from 10kg/m³ to 14kg/m³.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aerolite® – Glasswool</th>
<th>100mm</th>
<th>1</th>
<th>2.50m².K/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climatic zones 2</td>
<td>115mm</td>
<td>1,05</td>
<td>2.88m².K/W</td>
</tr>
<tr>
<td>Climatic zones 1 and 4</td>
<td>135mm</td>
<td>1,1</td>
<td>3.38m².K/W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alutherm® – Glass fibre</th>
<th>50mm</th>
<th>0,75</th>
<th>1.25m².K/W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75mm</td>
<td>0,8</td>
<td>1.88m².K/W</td>
</tr>
<tr>
<td></td>
<td>100mm</td>
<td>0,85</td>
<td>2.67m².K/W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Climatic zones 1 and 4</th>
<th>135mm</th>
<th>0,92</th>
<th>3.38m².K/W</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Alutherm® – Polyester fibre</th>
<th>50mm</th>
<th>0,6</th>
<th>1.25m².K/W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75mm</td>
<td>-</td>
<td>1.88m².K/W</td>
</tr>
<tr>
<td></td>
<td>100mm</td>
<td>0,7</td>
<td>2.65m².K/W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isover® – FactoryLite (Glasswool)</th>
<th>50mm</th>
<th>0,7</th>
<th>1.28m².K/W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75mm</td>
<td>-</td>
<td>1.92m².K/W</td>
</tr>
<tr>
<td></td>
<td>100mm</td>
<td>-</td>
<td>2.56m².K/W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isotherm recycled PET</th>
<th>135mm</th>
<th>-</th>
<th>3.346m².K/W</th>
</tr>
</thead>
</table>

<p>| Isotherm recycled PET | 135mm | - | 3.14m².K/W |</p>
<table>
<thead>
<tr>
<th>Products in market</th>
<th>Dimensions (thickness)</th>
<th>NRC</th>
<th>R-value</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Romatherm® – Polyester fibre</td>
<td>55mm</td>
<td>-</td>
<td>0,92m².K/W</td>
<td>DIY</td>
</tr>
<tr>
<td></td>
<td>75mm</td>
<td>-</td>
<td>1,67m².K/W</td>
<td>DIY</td>
</tr>
<tr>
<td></td>
<td>100mm</td>
<td>-</td>
<td>2,22m².K/W</td>
<td>DIY</td>
</tr>
<tr>
<td></td>
<td>135mm</td>
<td>-</td>
<td>2,82m².K/W</td>
<td>DIY</td>
</tr>
<tr>
<td>ThermocousTex® – Fibre (recycled polyester) over ceiling</td>
<td>50mm</td>
<td>0.73</td>
<td>1,35m².K/W</td>
<td>DIY</td>
</tr>
<tr>
<td>ThermocousTex® – Fibre (recycled polyester) over purlin (with laminated foil roll)</td>
<td>25mm</td>
<td>0.73</td>
<td>2,05m².K/W</td>
<td>DIY</td>
</tr>
</tbody>
</table>

**Board Insulation**

Insulation supplied in board form which varies in densities and thicknesses, resulting in a range of thickness specific R-values. These boards can be fitted over purlin, between purlin, below purlin, or within specific ceiling suspension systems determined by the design application. Some boards can also add acoustic benefits which vary according to the type of material, manufacturing process and density. Densities vary from 32kg/m³ to 87,5kg/m³.

<table>
<thead>
<tr>
<th>ThermocousTex® – Plain board (recycled polyester)</th>
<th>25mm</th>
<th>-</th>
<th>0,74m².K/W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35mm</td>
<td>-</td>
<td>1,03m².K/W</td>
</tr>
<tr>
<td></td>
<td>50mm</td>
<td>0.69</td>
<td>1,44m².K/W</td>
</tr>
<tr>
<td>XPSBoard® – Polyester fibre (extruded polystyrene)</td>
<td>25mm</td>
<td>-</td>
<td>0,893m².K/W</td>
</tr>
<tr>
<td></td>
<td>30mm</td>
<td>-</td>
<td>1,071m².K/W</td>
</tr>
</tbody>
</table>

**Glossary**

- **NRC:** Noise reduction coefficient
- **R-value:** Thermal resistance
- **Cost savings**
- **Energy savings**
- **Fire-retardant**
- **Recycled**
- **Lightweight**
- **DIY** - Easy installation

**Key**

- ■ Recommended cost-effective insulation for Western Cape

**Note**

The 50mm + 75mm insulation can be installed as top up in homes that already have insulation but currently do not meet the requirements for the buildings in SANS 10400 XA.
### INSULATION

**Glossary**

**NRC:** Noise reduction coefficient

**R-value:** Thermal resistance

- Cost savings
- Energy savings
- Fire-retardant
- Recycled
- Lightweight
- Easy installation

**Key**

- Recommended cost-effective insulation for Western Cape

<table>
<thead>
<tr>
<th>Products in market</th>
<th>Dimensions (thickness)</th>
<th>NRC</th>
<th>R-value</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>40mm</td>
<td></td>
<td>-</td>
<td>1.429 m².K/W</td>
<td>📊 📊 📊 DIY</td>
</tr>
<tr>
<td>50mm</td>
<td></td>
<td>-</td>
<td>1.786 m².K/W</td>
<td>📊 📊 📊 DIY</td>
</tr>
<tr>
<td>80mm</td>
<td></td>
<td>-</td>
<td>2.857 m².K/W</td>
<td>📊 📊 📊 DIY</td>
</tr>
</tbody>
</table>

**Cellulose insulation**
Insulation supplied in loose form as loose fibres and is generally pumped or placed into ceiling voids where the fibres can be contained. These fibres are not bonded together as in bulk insulation or board insulation.

<table>
<thead>
<tr>
<th>Eco Insulation® - Cellulose</th>
<th>50mm</th>
<th>-</th>
<th>1.25 m².K/W</th>
<th>📊 📊 📊 DIY</th>
</tr>
</thead>
<tbody>
<tr>
<td>75mm</td>
<td>-</td>
<td>1.87 m².K/W</td>
<td>📊 📊 📊 DIY</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eco Insulation® - Cellulose</th>
<th>100mm</th>
<th>-</th>
<th>2.50 m².K/W</th>
<th>📊 📊 📊 DIY</th>
</tr>
</thead>
<tbody>
<tr>
<td>135mm</td>
<td>-</td>
<td>3.38 m².K/W</td>
<td>📊 📊 📊 DIY</td>
<td></td>
</tr>
</tbody>
</table>

| Thermguard                  | 135mm | - | 3.55 m².K/W | 📊 📊 📊 DIY |
|                            |       |   |             |             |

| Top Hat Cellulose Insulation | 135mm | - | 3.3 m².K/W | 📊 📊 📊 DIY |

**Radiant heat barriers (reflective insulation)**
Insulation supplied in roll form with reflective surface(s) that act as a radiant heat barrier. Reflective foils have negligible R-values and do not add to the R-value of other form of insulation. However, reflective foils do reduce radiant heat flow and act as a vapour barrier. Further, if the reflective foil installation creates an air gap, then that air gap may be allocated a certain R-value in accordance to SANS 204.

<table>
<thead>
<tr>
<th>Single-sided white/black Alububble®</th>
<th>4mm</th>
<th>-</th>
<th>1.103 m².K/W</th>
<th>📊 📊 📊 DIY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double-sided Alububble®</td>
<td>4mm</td>
<td>-</td>
<td>1.454 m².K/W</td>
<td>📊 📊 📊 DIY</td>
</tr>
</tbody>
</table>
Eco-Insulation creates a thermal barrier that controls temperature all year round

ECO-INSULATION NOT ONLY OFFERS THE ULTIMATE CLIMATE CONTROL, IT IS ALSO THE ULTIMATE GREEN BUILDING PRODUCT. HELPING THE ENVIRONMENT AND PROTECTING YOU AND YOUR FAMILY AGAINST THE INTENSIFYING EFFECTS OF GLOBAL WARMING.

Eco-Insulation was contracted to install ceiling insulation at Pelican Park, a gap housing project situated along the southern shore of Zeekoevlei off Strandfontein Road and about 5km north of the False Bay coast. Eco-Insulation was installed to specification SANS 10400XA at the relevant homes. The product had to be pumped into the ceiling of each residential unit to a thickness of 135mm. Each housing unit (pictured) varies in size between 48m² to 74m² in area and is constructed in compliance with these relevant energy saving regulations.

Made from flame-retardant recycled cellulose fibre, Eco-Insulation is an established green brand giving developers peace of mind, meaning seamless service on site and 100% coverage inside the roof. The brand truly supports the contractor due to the very efficient process of installation. It is installed professionally by teams of qualified fitters.

“Developers or project managers are advised to appoint insulation contractors carefully. It is not uncommon for insulation to be laid at below the minimum specified thickness in order to cheapen the price to get the job. SANS legislation requires minimum thermal performance standards, so installers who support this practice are not only flouting the law, but also doing property owners a grave disservice. Check the trade association website www.tiasa.org.za for technical information, or visit our website at www.eco-insulation.co.za for useful advice.

“A product such as Eco-Insulation resists the flow of heat, so that less heat will be lost from the home in winter and less heat will enter during summer. In turn this leads to healthier living conditions and positive outcomes for the occupants. As a form of energy, heat always flows to a cooler area, escaping the building in the winter and entering the building during summer. Eco-Insulation creates a thermal barrier that controls temperature all year round,” says Richard Ellis of Eco-Insulation.

From the design perspective, Eco-Insulation provides the lowest carbon footprint of all insulation types available. It is key to ensuring green building compliance.
Window frames and glazing
This section comprises mainly window frames and glazing systems.

Taxonomy and key benefits of thermal insulation
The fenestration products included in this catalogue are mainly energy efficient aluminium, timber, uPVC (un-plasticised poly vinyl chloride) window profile systems that are currently available in the Western Cape. These window profile systems have gone through the AAAMSA certification process that ensures air infiltration performance as per SANS 10400 XA requirements. Other typical performance criteria are those that seek to minimise heat loss through window profile systems. The indicators used for this include the u-value, solar heat gain coefficient (SHGC) and the glazing material used.

<table>
<thead>
<tr>
<th>Specifications (e.g. 4mm float glass)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window type</td>
</tr>
<tr>
<td>Steel</td>
</tr>
<tr>
<td>uPVC</td>
</tr>
<tr>
<td>Timber</td>
</tr>
<tr>
<td>Aluminium</td>
</tr>
</tbody>
</table>

Fenestration summary
Air infiltration performance of fenestration products is mandatory in terms of SANS 10400 XA. The requirements are as per SANS 613:2009, which require that any windows installed conform to the minimum air leakage standards stipulated.

Specifying professions will not be able to make use of products which are not demonstrated to achieve the performance of SANS 613:2009.

Window manufacturers/sub-contractors and glaziers are no fire experts and it is therefore the onus of the client/specifiers to indicate the glass requirements in respect of location and degree of resistance to fire in minutes. The architect/engineer must specify the glazing requirements in respect of SANS 10400-T.

Glass and plastic glazing are usually selected on merits of economics, aesthetics and performance but all glazing is to be executed in strict accordance of the latest editions of the South African Standards.

PLEASE NOTE
The thermal efficiency of windows is measured using a U-value. The lower the U-value the less heat is permitted through the window. The windows with the lowest possible U-value have been included in this fenestration section.
<table>
<thead>
<tr>
<th>Products in market</th>
<th>Product range</th>
<th>Dimensions (width x height)</th>
<th>Glazing</th>
<th>SHGC</th>
<th>U-value</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Glass Distribution</td>
<td>30.5 Eagle Casement</td>
<td>Variable</td>
<td>4mm clear float</td>
<td>0.55</td>
<td>5.22 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Primador Aluminium</td>
<td>30.5 Casement</td>
<td>Variable</td>
<td>4mm clear float</td>
<td>0.61</td>
<td>5.39 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Swartland</td>
<td>Side hung window</td>
<td>Variable</td>
<td>6.38mm PVB lamington clear</td>
<td>0.62</td>
<td>5 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Wispeco</td>
<td>Euraldo 520 tilt and turn</td>
<td>Variable</td>
<td>6.38mm PVB + 12mm + 6mm</td>
<td>0.51</td>
<td>3.67 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Glass South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-Range™</td>
<td>Single glazed low E glass</td>
<td>Variable</td>
<td>Variable</td>
<td>-0.41 - 0.66</td>
<td>3.7 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Ener-G Smart™</td>
<td>Single glazed low E glass</td>
<td>3210mm x 2250mm</td>
<td>6.38mm to 13.52mm</td>
<td>-0.33 - 0.4</td>
<td>3.7 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>InsulVue®</td>
<td>Double glazing (incl. 12mm air gap)</td>
<td>3200mm x 2000mm</td>
<td>Variable</td>
<td>-0.33 - 0.67</td>
<td>2.8 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Insul-Smart™</td>
<td>Double glazing (incl. 12mm air gap)</td>
<td>350mm x 350mm</td>
<td>4mm clear float outer + 12mm air gap + clear float inner</td>
<td>0.75</td>
<td>2.8 W/m²/K</td>
<td></td>
</tr>
<tr>
<td></td>
<td>350mm x 350mm</td>
<td></td>
<td>4mm clear float outer + 12mm air gap + low E inner</td>
<td>0.71</td>
<td>1.9 W/m²/K</td>
<td></td>
</tr>
<tr>
<td>Products in market</td>
<td>Product range</td>
<td>Dimensions (width x height)</td>
<td>Glazing</td>
<td>SHGC</td>
<td>U-value</td>
<td>Resource efficiency indicator</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------</td>
<td>-----------------------------</td>
<td>---------</td>
<td>------</td>
<td>---------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Insul-Smart™</td>
<td>Double glazing (incl. 12mm air gap)</td>
<td>350mm x 350mm</td>
<td>4mm serene green float outer + 12mm air gap + clear float inner</td>
<td>0.52</td>
<td>2.8W/m²/K</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>350mm x 350mm</td>
<td>4mm serene green float outer + 12mm air gap + low E inner</td>
<td>0.47</td>
<td>1.9W/m²/K</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>350mm x 350mm</td>
<td>4mm solar e float outer + 12mm air gap + 4mm clear float inner</td>
<td>0.46</td>
<td>1.9W/m²/K</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>350mm x 350mm</td>
<td>6.38mm Ener-G smart neutral low E outer + 12mm air gap + 4mm clear float inner</td>
<td>0.33</td>
<td>1.9W/m²/K</td>
<td></td>
</tr>
<tr>
<td>SolarVue™</td>
<td>Laminated safety glass</td>
<td>Variable</td>
<td>PVB</td>
<td>-0.49-0.69</td>
<td>-5.80W/m²/K</td>
<td></td>
</tr>
<tr>
<td>SolarShield®</td>
<td>Laminated safety glass</td>
<td>Variable</td>
<td>PVB</td>
<td>-0.49-0.69</td>
<td>-5.80W/m²/K</td>
<td></td>
</tr>
</tbody>
</table>

**Glossary**

- **E**: Emissivity
- **PVB**: Polyvinyl butyral
- **PVC**: Polyvinyl chloride
- **SHGC**: Solar heat gain coefficient
- **U-Value**: Thermal transmittance
- **uPVC**: Unplasticised polyvinyl chloride
- **Cost savings**
- **Energy savings**
- **Recycled**
- **Easy to clean**
- **DIY**: Easy installation
**uPVC**

*Application:* Mostly for window frames and sills when installing double glazing in new buildings, or to replace older single glazed windows.

<table>
<thead>
<tr>
<th>Product</th>
<th>Product range</th>
<th>Dimensions (width x height)</th>
<th>Glazing</th>
<th>SHGC</th>
<th>U-value</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Betcrete</em></td>
<td>Top hung double glazing</td>
<td>Variable 4mm +6mm +4mm</td>
<td>-0.49</td>
<td>-4.13W/m²/K</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Betcrete</em></td>
<td>Top/side hung</td>
<td>Variable 6.38mm PVB clear glass</td>
<td>0.55</td>
<td>5.7W/m²/K</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REHAU Ecotec</strong> uPVC Profile System</td>
<td>Double glazing 1200mm x 1500mm</td>
<td>24mm</td>
<td>0.55</td>
<td>2.7W/m²/K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tritec (New look collection)</td>
<td>Single glazing</td>
<td>Variable 4mm</td>
<td>0.55</td>
<td>4.8W/m²/K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tritec (New look collection)</td>
<td>Double glazing no emissivity glass</td>
<td>Variable 24mm</td>
<td>0.55</td>
<td>2.7W/m²/K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tritec (New look collection)</td>
<td>Double glazing with low E glass</td>
<td>Variable 24mm</td>
<td>0.55</td>
<td>2.0W/m²/K</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Also available in aluminium window casement.*

**REHAU collects all waste and regrinds the PVC to make other products.**
Tilt and turn doors allow flexible use for the Stellenbosch climate

REHAU AUTHORISED PARTNER, T AND T PLASTICS, RECENTLY FABRICATED AND INSTALLED 62 DOUBLE-GLAZED TILT AND TURN DOORS WITH TOP AND SIDE LIGHTS AT THE STUDIO ON PARK VIJF STUDENT ACCOMMODATION IN STELLENBOSCH, WESTERN CAPE.

South Africa’s Stefan Braun, Development Manager of Studios On Park, consulted with REHAU’s Adrian Baker regarding the design and choice of uPVC window and door options. The uPVC tilt and turn doors were specified as they are especially well suited to the climate in Stellenbosch. The locked doors allow for ventilation in the tilt position which is ideal for the rainy season. During summer the doors can be opened fully for fresh air, improving the living comfort.

The apartments were constructed off-site using a first for South Africa modular construction method, a rapid building technique that has been used in Europe, the Far East and the United States for decades. The tilt and turn doors were manufactured and installed off-site into the units. The completed apartments were then transported and craned into position and joined with the conventionally built components of the building.

T and T Plastics manufactured the doors locally using REHAU’s UV stable PVC profiles from the Ecotec range. REHAU’s uPVC windows and doors are thermally efficient, very durable and low maintenance. They will not rot, warp or discolour and never need painting or varnishing. Both new buildings and refurbishments can be fitted with REHAU’s uPVC windows and doors.

T and T Plastics received a certificate from the developer of Studio on Park Vijf for their contribution in completing the building in a record time of five months.

T and T Plastics also supplied uPVC side hung windows, sliding doors, single leaf residential doors and fire escape doors fitted with emergency exit locks for the general use areas in the building. JK Architects’ Jürgen Kieslich and HODEVCO

REHAU’s UV stable PVC profiles from the Ecotec range. REHAU’s uPVC windows and doors are thermally efficient, very durable and low maintenance. They will not rot, warp or discolour and never need painting or varnishing. Both new buildings and refurbishments can be fitted with REHAU’s uPVC windows and doors.

T and T Plastics received a certificate from the developer of Studio on Park Vijf for their contribution in completing the building in a record time of five months.

T and T Plastics also supplied uPVC side hung windows, sliding doors, single leaf residential doors and fire escape doors fitted with emergency exit locks for the general use areas in the building. JK Architects’ Jürgen Kieslich and HODEVCO.
Agrément-approved building technologies

This section comprises those non-standardised technologies. Agrément SA, an independent organisation, which primarily focuses on the certification of non-standardised or innovative building products through technical assessments that verify whether the products and systems are fit for purpose. Agrément SA certifies products where no national standards are applicable and their certification process is performance based. A valid Agrément certificate will comply with the National Building Regulations and is accepted by NHBRC for enrolment of non-standardised and alternate housing construction.

Taxonomy and key benefits of modular technologies

The modular technologies in this section include foundation works and walling systems that are prefabricated off-site in order to reduce to overall time to construct. The technologies are typically well insulated in the form of recycled polymer based products, insulated concrete structural panels (ISP) and lightweight construction technologies.

Key performance indicators include savings on time, reduced carbon load and the reduced energy usage of the building system.
<table>
<thead>
<tr>
<th>Products in market</th>
<th>Application</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARUBA 2000 Series Building System</td>
<td>Prescribed for the erection of buildings up to three storeys in height for the following types of construction <em>(refer to SANS 10400: Table 1 of Regulation A(20)(1)).</em></td>
<td></td>
</tr>
<tr>
<td>Concretex Building System</td>
<td>Prescribed for the erection of single-storey buildings for the occupancies set out below <em>(SANS 10400: Table 1 of Regulation A (20)(1)):</em> places of instruction (A3); small shops (F2); offices and clinics (G1); domestic residences (H3), and dwelling houses and related outbuildings (H4).</td>
<td></td>
</tr>
<tr>
<td>Eco-Beam Building by Bag Building System</td>
<td>Prescribed for the erection of single-storey buildings for occupancy classifications set out below <em>(SANS 10400: Table 1 of Regulation A (20)(1)):</em> place of instruction (A3); moderate and low-risk commercial service buildings (B2 and B3); offices (G1); hotel (H1); domestic residence (H3); dwelling house (H4); moderate risk storage (J2); and low-risk storage (J3).</td>
<td></td>
</tr>
<tr>
<td>Eco-Construction Building System</td>
<td>Prescribed for the erection of single-storey buildings for occupancy classifications set out below: moderate and low-risk commercial service buildings (B2 and B3); offices (G1); domestic residence (H3) (limited to home owner/developer); dwelling house (H4) (limited to home owner/developer); moderate risk storage (J2); and low-risk storage (J3).</td>
<td></td>
</tr>
<tr>
<td>Envirowall Building System</td>
<td>Prescribed for the erection of single-storey buildings for the following occupancy classes <em>(SANS 10400: Table 1 of Regulation A (20)(1)):</em> (A3) place of worship; (B2) and (B3) moderate and low-risk commercial; (F2) small shop; (H3) domestic dwellings; and (H4) dwelling house and related outbuilding.</td>
<td></td>
</tr>
<tr>
<td>Modulo System</td>
<td><strong>Application:</strong> Suitable for any type of construction and building application (brickwork structure, frames made from in situ/timber/steelwork). Not yet Agrément certified.</td>
<td></td>
</tr>
<tr>
<td>Khaya Readykit (Pty) Ltd</td>
<td>Prescribed for single-storey buildings for the occupancy classes *(SANS 10400: Table 1 of Regulation A20 (1)) set out below: places of instruction (A3); low-risk commercial services (B3); offices and day care clinics (G1); domestic residence (H3) (two or more attached dwellings); dwelling house (H4) (single dwelling unit); low-risk storage (J1).</td>
<td></td>
</tr>
<tr>
<td>Compressed Earth Block Building system</td>
<td><strong>Application:</strong> Prescribed for single-storey buildings for the occupancy classes *(SANS 10400: Table 1 of Regulation A20 (1)) set out below: places of instruction (A1); domestic residence (H3) (two or more attached dwellings) and dwelling house (H4) (single dwelling unit).</td>
<td></td>
</tr>
</tbody>
</table>

**Glossary**

- Cost savings
- Energy savings
- Local content
- Fire-retardant
- Lightweight
- Easy installation
- Fast construction

Source: Agrément SA
Foundations: Prescribed as foundations which are cast in situ concrete surface bed, and thickened edge beams cast on a damp proof membrane. Walling: Walls fixed together using interlocking tongue and groove method between the panels. Roofing: Consists of light gauge, structural steel trusses and clad with lightweight cladding. Insulated ceilings must always be installed and can be gypsum plasterboard, fibre cement, isofoam or 30mm thick Lampboard (polyisocyanurate foamed board coated both sides with impregnated glass fibre tissue) installed in accordance with the manufacturer’s instruction.

Tilt-up Prefabricated Building System

It is a single-storey structure that utilises concrete foundation, ground-floor slab, walls and timber roof. The Tilt-up Prefabricated Building System built in the South Coastal Condensation Problem Area (SCCP) requires a Pratliperl finish on both faces of the wall.

UCO Solidwall Building System

Prescribed for the erection of single-storey buildings for the following uses: places of instruction (A3); moderate risk commercial (B2); low-risk commercial services (B3); small shops (F2); other institutional (residential ) (E3); offices (G1).

Additives

Cazeden S-Crete Fibres

Concrete additive: In industrial, commercial and residential slabs and pavements, etc.

Water Heating Systems

Africooker

Water-heating device (21ℓ water capacity)
Agricultural, commercial, residential, industrial and institutional can be built in half the time

INTRODUCING THE FASTEST, MOST INNOVATIVE STEEL FRAMING SOLUTION, ENABLING HIGH QUALITY, AFFORDABLE CONSTRUCTION.

Silverline Group specialises in alternative building and construction solutions. Silverline Group ensures customer satisfaction and invites you to contact us for all your property, construction and architectural needs. Our team consists of experienced professionals who will serve their clients through excellence. No job is too small for us and we take pride in customer satisfaction.

- stronger than brick and mortar
- Up to 50% faster than brick and mortar
- More than 100% better insulated than brick and mortar
- Factory precision
- 50-year material warranty
- 600-year durability
- Approved by all banks, municipalities, SABS, government
- 2% waste material on site
- 80% less carbon footprint
- Reduces foundation requirements – due to 10 times lighter structure on the foundation
- Superior insulation properties – saving on capital outlay of h.A.V up to 40% of electricity bill
- Plumbing and electrical installation easier and faster.

All structures signed off by a structural engineer.
WALLING

Walling materials

This section comprises of masonry and non-masonry walling materials. Please note that under SANS 10400 XA, only the external walls are regulated. Most of the materials included in this section are the various clay bricks under the masonry section. The non-masonry section comprises mainly light steel and insulated innovative blocks.

The cost and quality of masonry work is significantly affected by the mortar used.” – Clay Brick Association

Regulations

The following walling systems comply with the regulations:

- Non-masonry walls with an R-value of not less than either 1,9 or 2,2m²K/W depending on the geographic location of the structure.
- Masonry walls will comply if they comprise of a double brick construction irrespective of brick dimensions.
- Single through the wall 140mm hollow concrete block which are plastered internally also comply.
- Other [single skin] masonry walls should have an R-value which is greater than 0,35m²K/W.

Taxonomy and key benefits of walling technologies

Key performance requirements include the embodied energy and the thermal mass of the building materials.

Typical CR-values

<table>
<thead>
<tr>
<th>Wall type double-skin brick</th>
<th>*CR product hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 106mm with no air cavity</td>
<td>40</td>
</tr>
<tr>
<td>2 x 106mm with 50mm air cavity</td>
<td>60</td>
</tr>
<tr>
<td>Above with R=0,5 cavity insulation</td>
<td>90</td>
</tr>
<tr>
<td>Above with R=1 cavity insulation</td>
<td>130</td>
</tr>
</tbody>
</table>

*CR is requisite combination of thermal mass (C) and thermal resistance (R). The latter is not a requirement of SANS 10400 XA but is increasingly being used as a benchmark for the optimal thermal performance of double brick masonry walls.
## Glossary

**FBA:** Face brick aesthetic
**NFX:** Non-facing extra
**NFP:** Non-facing plastered
**LSF:** Light steel frame

### Products in market

<table>
<thead>
<tr>
<th>Masonry</th>
<th>Non-Masonry</th>
<th>Insulating Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay bricks</td>
<td>Light Steel Frames</td>
<td>InnoBlok&lt;sup&gt;®&lt;/sup&gt;</td>
</tr>
<tr>
<td>NFP and NFX - Standard</td>
<td>Light steel-frame buildings consist of structural wall frames and roof trusses manufactured from cold-formed thin-gauge, high-tensile galvanised steel sections. Non-masonry walls shall achieve a minimum total R-value of: a) Climatic zones 1 and 6: 2.2; b) Climatic zones 2, 3, 4 and 5: 1.9.</td>
<td></td>
</tr>
<tr>
<td>NFP and NFX - Solid Core Maxi</td>
<td>Variable</td>
<td>390mm (length) 140mm (width) 190mm (height)</td>
</tr>
</tbody>
</table>

### Dimensions (thickness)

<table>
<thead>
<tr>
<th>Masonry</th>
<th>Non-Masonry</th>
<th>Insulating Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay bricks</td>
<td>Light Steel Frames</td>
<td>InnoBlok&lt;sup&gt;®&lt;/sup&gt;</td>
</tr>
<tr>
<td>NFP and NFX - Standard</td>
<td>Light steel-frame buildings consist of structural wall frames and roof trusses manufactured from cold-formed thin-gauge, high-tensile galvanised steel sections. Non-masonry walls shall achieve a minimum total R-value of: a) Climatic zones 1 and 6: 2.2; b) Climatic zones 2, 3, 4 and 5: 1.9.</td>
<td></td>
</tr>
<tr>
<td>NFP and NFX - Solid Core Maxi</td>
<td>Variable</td>
<td>390mm (length) 140mm (width) 190mm (height)</td>
</tr>
</tbody>
</table>

### MPa

<table>
<thead>
<tr>
<th>Masonry</th>
<th>Non-Masonry</th>
<th>Insulating Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay bricks</td>
<td>Light Steel Frames</td>
<td>InnoBlok&lt;sup&gt;®&lt;/sup&gt;</td>
</tr>
<tr>
<td>NFP and NFX - Standard</td>
<td>Light steel-frame buildings consist of structural wall frames and roof trusses manufactured from cold-formed thin-gauge, high-tensile galvanised steel sections. Non-masonry walls shall achieve a minimum total R-value of: a) Climatic zones 1 and 6: 2.2; b) Climatic zones 2, 3, 4 and 5: 1.9.</td>
<td></td>
</tr>
<tr>
<td>NFP and NFX - Solid Core Maxi</td>
<td>Variable</td>
<td>390mm (length) 140mm (width) 190mm (height)</td>
</tr>
</tbody>
</table>

### Resource efficiency indicator

<table>
<thead>
<tr>
<th>Masonry</th>
<th>Non-Masonry</th>
<th>Insulating Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay bricks</td>
<td>Light Steel Frames</td>
<td>InnoBlok&lt;sup&gt;®&lt;/sup&gt;</td>
</tr>
<tr>
<td>NFP and NFX - Standard</td>
<td>Light steel-frame buildings consist of structural wall frames and roof trusses manufactured from cold-formed thin-gauge, high-tensile galvanised steel sections. Non-masonry walls shall achieve a minimum total R-value of: a) Climatic zones 1 and 6: 2.2; b) Climatic zones 2, 3, 4 and 5: 1.9.</td>
<td></td>
</tr>
<tr>
<td>NFP and NFX - Solid Core Maxi</td>
<td>Variable</td>
<td>390mm (length) 140mm (width) 190mm (height)</td>
</tr>
</tbody>
</table>
Claybrick optimises thermal performance in walling through high thermal mass

CLAYTILE SECURED THE ORDER FOR THE SUPPLY OF 1.2 MILLION IMPERIAL PLASTER BRICKS TO THE DEVELOPMENT OF HOTEL VERDE BASED ON THE SIGNIFICANT RECYCLED CONTENT MAKE-UP OF OUR PRODUCT.

Eco-friendly facts about Claytile bricks

01 All clay raw material is mined on site, blended with zero waste. Mined areas are rehabilitated to original agricultural state.

02 Where possible production processes are scheduled for off-peak periods to help reduce demand on the national electricity grid.

03 Energy to fire our Clay products is sourced as a by-product from Saldanha Steel.

04 The plant is automated, which means no forklifts are used to move bricks within the production process, leading to fuel savings and emission reduction.

05 Bricks are perforated (dematerialisation) in a staggered design that retains structural strength, while minimising clay usage, thereby reducing required energy costs.

06 Lighter, stronger product translates to savings in building design as less load is carried by the structure.

07 As bricks are lighter, considerably more product can be transported to site, meaning a reduction in vehicle numbers and therefore lower emissions per square meter of walling.

08 Bricks are palletised at 600 units per pallet as compared to the standard 500, leading to less pallet wood usage and a reduction in shrink wrap and improved site management.

09 Our uniform brick requires less mortar to lay and reduces site wastage.

10 The favourable geographical location of our factory gives us the advantage to easily and efficiently reach major Cape Town building sites.

Drying energy is derived from waste wood from a local pallet hiring company.

The plant is automated, which means no forklifts are used to move bricks within the production process, leading to fuel savings and emission reduction.

Bricks are perforated (dematerialisation) in a staggered design that retains structural strength, while minimising clay usage, thereby reducing required energy costs.

Lighter, stronger product translates to savings in building design as less load is carried by the structure.

As bricks are lighter, considerably more product can be transported to site, meaning a reduction in vehicle numbers and therefore lower emissions per square meter of walling.

Bricks are palletised at 600 units per pallet as compared to the standard 500, leading to less pallet wood usage and a reduction in shrink wrap and improved site management.

Our uniform brick requires less mortar to lay and reduces site wastage.

The favourable geographical location of our factory gives us the advantage to easily and efficiently reach major Cape Town building sites.

Image courtesy of Stefanutti Stocks Building Western Cape.
Paint and coating systems

The coatings in this section are Agrément-certified products. Most of these pains are water based and have low to zero volatile organic compound (VOC) content.

Taxonomy and key benefits of coatings

These coatings have been included owing to the benefits ranging from:

- Low toxicity levels
- Zero to low VOC levels
- Fire-retardant factors
- Cost-effectiveness

PLEASE NOTE

Paint and coating systems are not a direct requirement of SANS 10400 XA. These have mainly been included as part of the Agrément-certified product.
<table>
<thead>
<tr>
<th>Products in market</th>
<th>Application</th>
<th>Resource efficiency indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flexiwall Coating System</strong></td>
<td>A two-coat application for use in all regions of South Africa for all types of occupancy classifications on internal and external surface such as: sand-cement plaster; sand-cement bagged finishes; cast in situ concrete/ precast concrete and prepared gypsum and fibre cement boards. Suitable for residential and commercial buildings. Available in 5ℓ and 20ℓ.</td>
<td>DIY</td>
</tr>
<tr>
<td><strong>Selfcoat Thermal</strong></td>
<td>A heat reflective coating containing ceramic beads for use on roofing in order to moderate interior temperatures. When exterior temperatures are high, interiors have a temperature drop of between 7 and 14°C. In winter internal heat is retained which saves energy and heating costs. Can be applied to corrugated sheets, tiles and wood. Highly UV-resistant. Not yet Agrément certified.</td>
<td></td>
</tr>
<tr>
<td><strong>Glutone Wall Coating</strong></td>
<td>A ready-to-use lime-based two-coat application for use on sound, suitably prepared external and internal wall surfaces as follows: cast in situ concrete or precast concrete; hollow concrete blocks; sand-cement plaster and sand-cement bagged finishes. Available in 5ℓ and 20ℓ.</td>
<td></td>
</tr>
<tr>
<td><strong>Sheerflex Coating System</strong></td>
<td>A two-coat application for use in all areas of South Africa on sound, suitably prepared external and internal wall surfaces as follows: sand-cement plaster; sand-cement bagged finishes; the above surfaces previously painted with PVA paint; and prepared gypsum and fibre cement boards. Available in 5ℓ and 20ℓ. Range includes Selfcoat Elite Satin, Eco Silk Lite, Bind and more.</td>
<td>DIY</td>
</tr>
<tr>
<td><strong>Techfin System</strong></td>
<td>A three-coat application, a base coat of Skimplaster and two finishing coats of Glutone Wall Coating, for use in all regions of South Africa on sound, suitably prepared external and internal wall surfaces as follows: cast in situ concrete or precast concrete; concrete bricks and hollow concrete blocks (conventionally built with mortar beds and joints); sand-cement plaster; sand-cement bagged finishes and surfaces previously painted with PVA paint. Available in 25ℓ and 200ℓ.</td>
<td></td>
</tr>
<tr>
<td><strong>Valamanzi Coating System</strong></td>
<td>A two-coat application for use in all areas of South Africa on sound, suitably prepared external and internal wall surfaces as follows: sand-cement plaster; sand-cement bagged finishes; the above surfaces previously painted with PVA paint; and prepared gypsum and fibre cement boards. Available in 5ℓ and 20ℓ.</td>
<td></td>
</tr>
<tr>
<td><strong>Weatherprufe Sealcoat Coating System</strong></td>
<td>A two-coat application for use in all areas of South Africa on sound, suitably prepared external and internal wall surfaces as follows: sand-cement plaster; sand-cement bagged finishes; the above surfaces previously painted with PVA paint; and prepared gypsum and fibre cement boards.</td>
<td></td>
</tr>
</tbody>
</table>
ECO Paint Solutions
Coatings with conscience

SELFCOAT IS A RANGE OF LONG-LASTING HIGH-QUALITY ECO-FRIENDLY INTERIOR/ EXTERIOR PAINTS AND SEALANTS.


Why use Selfcoat
01 Non-toxic
02 Zero VOC
03 Lead free
04 Odourless
05 Highly flexible elastic coating
06 Fast drying
07 Excellent spread rate
08 Easy application
09 Colour fast
10 UV resistant
11 Salt spray resistant
12 Fire-retardant
13 Non-flammable
14 Stain and scrub resistant
15 Anti-fungal
16 Durable
17 Cost-effective
18 Variety of finishes in any colour
19 Products for walls, roofs, floors, wood, insulation, metal, anti-rust and waterproofing
20 Excellent client references for quality and service
21 On-site consulting
22 Insulating roof paint reduces interior temperatures up to 45%.

082 466 3499
info@ecopaint.co.za
www.selfcoat.co.za
SUPPLIERS

Insulation

Aerolite® – Glasswool
Aeropink
Ian – 071 895 9593
Jeremy - 071 247 0114/021 671 2342
wcape@aeropink.co.za
www.aeropink.co.za

Roof Insulation
Peter – 021 837 1824
peter@roofinsulations.co.za
www.roofinsulation.biz/isotherm

Aerolite – Cape
Alan – 021 531 9559
alan@aerolitecape.co.za
www.aerolitecape.co.za

Alutherm® – Glass fibre, recycled polyester and reflective insulation
Africa Thermal Insulation
Jacques – 021 949 3199
jacques@ati-insulations.co.za
www.alububble.co.za

Isotherm – Recycled polyester (PET)
Brits Textiles, a division of Seardel (Pty) Ltd
Peter – 021 837 1824
peter@roofinsulations.co.za
www.isotherm.co.za

Winelands ISO
Charles – 083 636 9816
info@winelandsiso.co.za
www.winelandsiso.co.za

ThermoTech
Marius – 083 442 7058
marius@thermotech.co.za
www.thermotech.co.za
Cellulose Insulation

Eco Insulation
Gavin – 082 821 3275
gavin@eco-insulation.co.za
West Coast
Richard – 021 556 2208
richard@eco-insulation.co.za
Cape Town area
Pieter – 083 480 2094
winelands@eco-insulation.co.za
Winelands, Overberg
Willie – 082 576 5028
wille@eco-insulation.co.za
Southern Cape, Garden Route
www.eco-insulation.co.za

Top Hat Cellulose Insulation
Johan – 072 319 9198
info@tophatinsulation.com
www.tophatinsulation.co.za

Thermguard Ceiling Insulation
Louleen – 0861 222 695
info@thermguardcape.co.za
www.thermguardcape.co.za

ThermocousTex®, Romatherm®, IsoBoard
DATLINK Insulation and Acoustics
Craig – 0861 328 546
craig@datlink.co.za
info@datlink.co.za
www.datlink.co.za

YoungMan SA (Pty) Ltd
Vaughn – 021 511 8125
info@youngman.co.za
Maitland
021 704 0073
Wetton
www.youngman.co.za
SUPPLIERS

Fenestration

Aluminium window casement suppliers

National Glass Western Cape
Nicolas – 086 117 7751
info@natglass.co.za
www.natglass.co.za

Primador Aluminium
021 931 4077
gveeden@primador.co.za
www.primador.co.za

WISPECO Western Cape
Glass South Africa
Jaelyn – 021 931 8361
jengelbrecht@gsa.co.za
www.wispeco.co.za

Alberg Aluminium
Mike – 021 905 0705
mike@alberg.co.za
www.wispeco.co.za

Almex Aluminium Extrusions
Harvey – 021 905 5770
harvey@almex.co.za
www.wispeco.co.za

Conways Aluminium
Vivian – 021 528 1100
vivian@conways.co.za
www.conways.co.za

RF Metals
Jonathan – 021 551 0125
jonathan@rfm.co.za

Sheerline
Ralph – 021 704 1802
ralph@sheerline.co.za
www.sheerline.co.za

Timber window casement
Swartland Boudienste (Pty) Ltd
Lynton – 021 577 3204
lynton.apolis@swartland.co.za
www.swartland.co.za
**uPVC window casement frames**

Betcrete Western Cape (T/A MG Innovations)
Marius – 021 905 7160
marius@betcrete.co.za
www.betcrete.co.za

New Look Windows
Jörn – 021 552 7172
jorn@newlookwindows.co.za
www.newlookwindows.co.za

Window Door SA
Jon-Jon – 021 510 6996
support@windoorsa.com
www.windoorsa.com

Nordic Windows and Doors cc
021 790 1154

Moonstar Windows and Doors Systems
Faith – 021 551 9448/076 541 6140
info@moonstar.co.za
www.moonstar.co.za

T and T Plastics cc
Terence – 021 704 6924
tntplastics@gmail.com
www.tntplastics.co.za

**uPVC Window Systems**

Pat – 021 712 5420
upvcwindows@mweb.co.za
www.upvc.co.za

Völkel and Sons
Jochen – 021 845 4407
jochen@netralink.com
www.volkelwindows.wozaonline.co.za

Advanced Window Systems cc
Charles – 021 982 0444
charles@advancedwindows.co.za
www.advancedwindows.co.za
Modular technologies

**Aruba Construction (Pty) Ltd**
Hilton – 021 785 8787
hilton@aruba.co.za
www.aruba.co.za

**Concretex**
Mark – 021 691 0027
mark.ryan@concretex.co.za
www.concretex.co.za

**Ecobeam Technologies cc**
Yusuf – 021 531 7043
sales@ecobeam.co.za
www.ecobeam.co.za

**Mzansi Environmental and Engineering Solutions**
Greg – 021 556 8736
gwalker@meesol.com

**Greggon Properties cc**
Gert – 082 555 5824
gert.envirowall@gmail.com

**Geoplast Int (SA)**
Attilio – 021 556 8488
Attilio@cobute.co.za
www.cobute.co.za

**Khaya Readykit (Pty) Ltd**
Mike – 082 403 6929
readykit@mweb.co.za
www.readykit.co.za

**Compressed Earth Block Building system**
Chris – 0722920240
ChrisWhyte@use-it.co.za
www.use-it.co.za

**LWP Holdings (Pty) Ltd (LEPA)**
Robert – 021 975 2460
robert@lepa.co.za

**PropetFibre SA (Pty) Ltd**
Jorge – 021 521 2200
jorge@propetfibre.com

**Silverline Group**
Simon – 084 432 8703
simon@silverlinegroup.co.za
www.silverlinegroup.co.za
Walling

Clay bricks
Apollo Brick
Jan – 021 572 2551
jvorster@apollobrick.com
www.apollobrick.com

Corobrik (Pty) Ltd
Anita – 021 691 0434
lansdowne@corobrik.co.za
Lansdowne
Christie – 021 888 2300
christie.vanniekerk@corobrik.co.za
Stellenbosch
Mark – 021 852 9667
somersetwest@corobrik.co.za
Somerset West
Tanya – 022 713 5470
vredenburg@corobrik.co.za
Vredenburg
www.corobrik.co.za

Crammix Bricks
Robert – 021 980 5220/021 981 2115
bricks@crammix.co.za

Bredasdorp Steenwerke
Leon – 028 424 2130
leonjamneck@hotmail.com

Klein Karoo Bakstene
Nelly – 023 614 1600
kkb@lando.co.za

Rheebok Stene
Lisa – 044 620 2276(2965)
info@rheebokbrick.co.za

Cabrico (Pty) Ltd
Robert – 021 865 2070
ccapri@iafrica.com

Nuweliaarsrivier Landgoed (T/A Paarl Brickfields)
Nico – 021 863 2740
paarlbak@iafrica.com

Worcester Bakstene
Simoné – 074 194 7264
wbakstene@breede.co.za

Naude Bakstene
Jamie – 082 465 9609
anton@naudebakstene.co.za
**SUPPLIERS**

**Insulated blocks**
Innoblok
Craig – 072 903 6536
craig@datlink.co.za
www.datlink.co.za

**Light steel frames**
Silverline Group
Simon – 084 432 8703
simon@silverlinegroup.co.za
www.silverlinegroup.co.za

**Coatings**

**Duram (Pty) Ltd**
021 555 3090
dancketill@duram.co.za
www.duram.co.za

**Self Coate T/A Geo Paint Solutions**
Ronelle – 021 785 3070
info@ecopaint.co.za
www.selfcoat.co.za

**Dekro Paints (Pty) Ltd**
021 903 3131
info@dekropaints.co.za
www.dekro.co.za

**Technical Finishes (Pty) Ltd**
021 535 4455
infowc@technicalfinishes.com
www.technicalfinishes.com

**Market Demand Pty) Ltd**
021 557 9147
don@weatherprufe.co.za
www.weatherprufe.co.za