

# SMARTCRETE

Manufacturers of Precast Concrete Products



Company Profile

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## **INTRODUCTION**

### **OUR START**

Founded in 2010, Windowsill Smart (Pty) Ltd was started by Harry van Lieshout. With over 50 years of experience in the construction industry, Harry saw a need to create precast windowsills to replace the conventional brick on edge. To date, Windowsill Smart has delivered over 35,000 windowsills to its clients. David van Lieshout joined Windowsill Smart in 2014 to help father Harry as the demand for windowsills grew past his expectations. Together they have grown the business by 700% in the last 3 years. Their product range grew quickly and in April 2017 they refreshed their brand and started trading as Smartcrete.

If concrete were to be invented today, it would be hailed as a miracle. It is the most commonly used building material in the world, and because of that we take it for granted. Too often this means that we overlook the nearly limitless possibilities offered by precast concrete components.

But it's just the tip of the precast pyramid. As you will see from our products inside, the benefits and uses of precast concrete are limited only by our imaginations.

Smartcrete is a young and dynamic precast manufacturing company. The team of Smartcrete has over 50 years' experience in the construction industry. Our vision is to produce products of the highest quality and durability.

Because precast components are cast in a plant and delivered to a job site, disruption to the surrounding community is greatly reduced. Noises associated with the construction of forms and placement of concrete is contained within the plant environment. This results in substantially quieter construction sites – a genuine benefit to local residents and workers alike.

Precast structures – particularly floors and staircases – provide an early, secure and broad platform on the job site. This solid footing helps speed up construction and provides a safer working environment.

Precast installation is so quick that other trades can begin work sooner – often saving weeks on the construction schedule. Precast also requires less storage space on site, no long setups for scaffolding, and smaller crews to install. Precast needs no additional curing on site and does not require protection from weather.

Despite all the best intentions on a construction site, sometimes minor dents, damage or dirtying can compromise the appearance of neatly installed concrete units. The excellent surface finish of precast makes cleaning and repairs easy. Smartcrete offers extensive guidance on how best to undertake these tasks.

The materials that comprise precast concrete products come from natural and recycled sources, making it a very sustainable construction material, perfect for green building under LEED guidelines. Aggregates and water are all widely available and in plentiful supply. Precast concrete building products correlate with at least four categories of LEED certification and can also help a building qualify for additional “Innovation” points.

As with many concrete products, precast is easy to crush and recycle as aggregate. Demand for “previously enjoyed” materials like these is growing every year. Even the reinforcing steel used can be recycled.

In its daily use, precast concrete is a totally inert substance, so it will not emit any gases, toxic compounds or VOCs (volatile organic compounds). This means allergy sufferers can breathe easy because precast does not contribute to “sick building syndrome.”

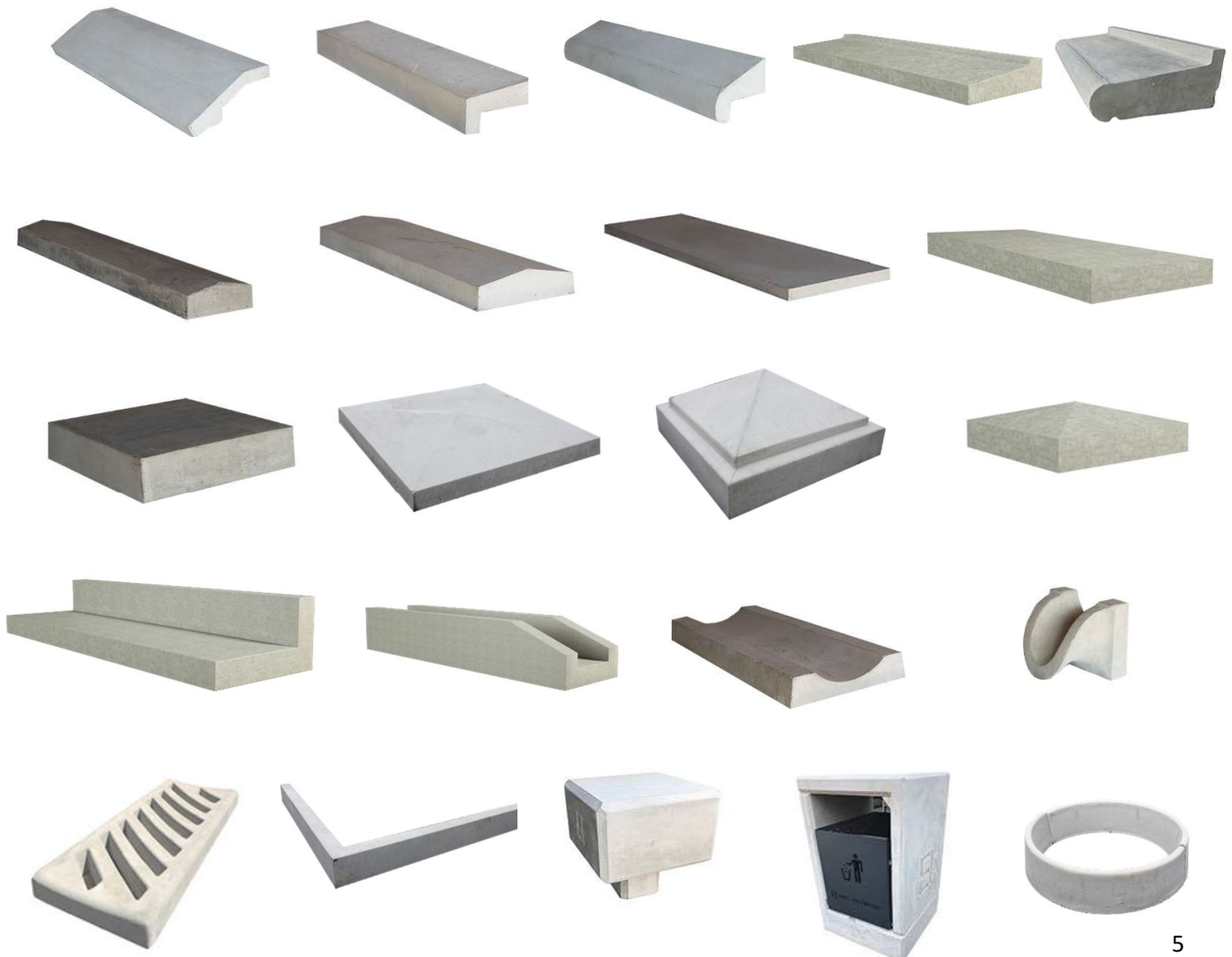
There’s no doubt that the many advantages of precast comprise a significant package. It’s super strong, long-lasting and resists buoyancy. And it offers beauty and value through attractive finishes, modularity and quick all-weather installation.

The technology behind precast production, design and construction stretches back hundreds of years, so customers can have peace of mind when specifying precast products. Precast is a proven technology with a long history and a high-tech future.

## TYPES OF PRODUCTS

Smartcrete manufactures a wide variety of products. These fall into the following main categories.

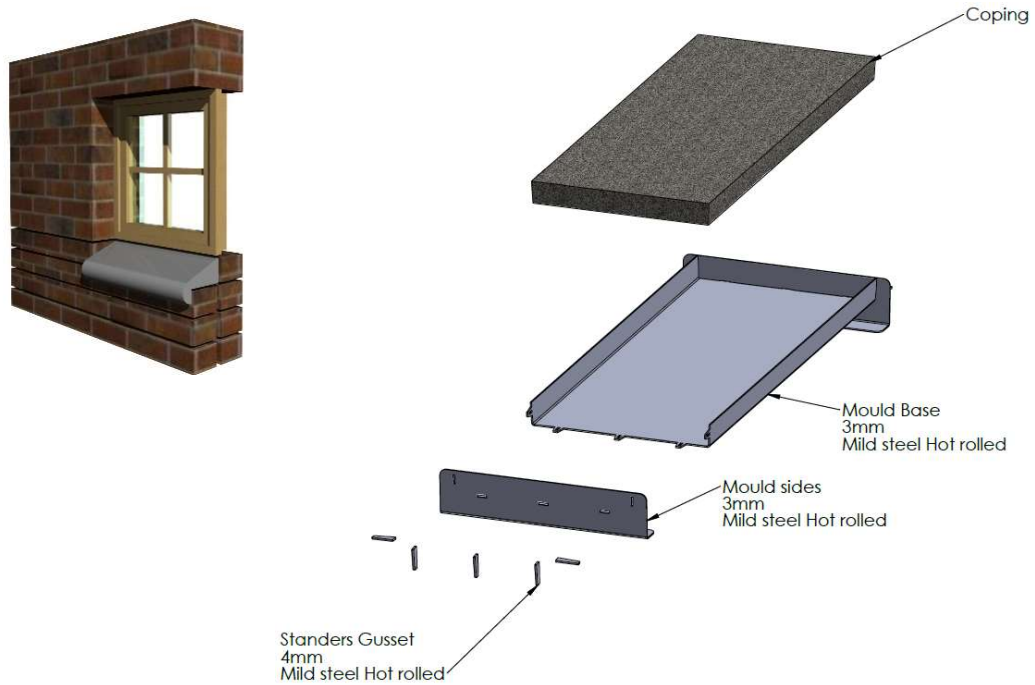
- ★ Windowsills; Type A, Type B, Type BE, Type C, Type D, Type E, Type S, Type Z.
- ★ Wall Copings; Various sizes available in flat, pitched or rounded styles.
- ★ Wall Caps; Various sizes available in flat, pitched or rounded styles.
- ★ Stairs and Treads; Individual tread and riser are available in various lengths, widths and thicknesses.
- ★ Water Channels and Spouts; Water channels, water gulleys, water spouts, drain covers and storm water channels.
- ★ Landscaping; Tree rings, garden pavers, pool surrounds, garden edging and fireplaces.
- ★ Decorative; Gas/fire place copings, corniches, landings, benches, litter bins.
- ★ Custom Products: Shower steps, chimney caps, speed bumps, man hole covers.



## SERVICES

The following are offered as product related services to our customers.

- ★ Quotations on standard products, and also on proposed new and custom designed products.
- ★ Design of reinforced concrete to SABS 0100: 2000 code for new products and situations.
- ★ Manufacture of light weight concrete alternatives.
- ★ Transportation of products anywhere in Gauteng.
- ★ Mould design and building in steel, fibreglass, wood or rubber.



## QUALITY ASSURANCE

Smartcrete is committed to the manufacture and supply of good quality products.

Because of the quality controlled manufacturing environment, repetition of individual products can be achieved with confidence whether the job requires 10, 100 or 1,000 pieces. Precast concrete forms and molds can be stored to allow later replication, whether additional units are required one day, one week or one year later.

Smartcrete invests heavily in research and development to make our products and services even better. New products, new information technology and new production facilities demonstrate this forward-thinking attitude.

Smartcrete's products are manufactured under a controlled process and meet the highest standards. Our products are strength tested according to SABS method 863 and average a strength of 35 MPA

### 7 DAY TEST RESULTS

LABORATORY NUMBER	YOUR REF	DATE CAST	DATE TESTED	AGE DAYS	SIZE (mm)	MASS (g)	DENSITY kg/m <sup>3</sup>	Load (kN)	COMPRESSIVE STRENGTH (MPa)	FAILURE MODE
M0216	01	23-Apr	30-Apr	7	100x100	2440	2.440	275	27.5	A
M0217	02	23-Apr	30-Apr	7	100x100	2470	2.470	252	25.2	A
M0218	03	23-Apr	30-Apr	7	100x100	2420	2.420	265	26.5	A
AVERAGE						2443	2.443	264	26.4	
STANDARD DEVIATION						25.2	0.0	11.5	1.2	

### 28 DAY TEST RESULTS

LABORATORY NUMBER	YOUR REF	DATE CAST	DATE TESTED	AGE DAYS	SIZE (mm)	MASS (g)	DENSITY kg/m <sup>3</sup>	Load (kN)	COMPRESSIVE STRENGTH (MPa)	FAILURE MODE
M0219	04	23-Apr	21-May	28	100x100	2442	2.442	393	39.3	A
M0220	05	23-Apr	21-May	28	100x100	2423	2.423	380	38.0	A
M0221	06	23-Apr	21-May	28	100x100	2447	2.447	397	39.7	A
AVERAGE						2433	2.433	387	38.7	
STANDARD DEVIATION						13.4	0.0	9.2	0.9	

#### Remarks:

- Opinions and Interpretations are not included in our schedule of Accreditation.
- SANAS Accredited Laboratory No. T0296
- The samples tested were subjected to analysis according to SABS method 863.
- The test results reported relate only to the samples tested.
- Test results may only be reproduced or published in their full context.
- Compiled by: Denica Boshoff



Technical Signatory  
Mr. Deon Juckers

RL-C-92-01

## MAJOR CUSTOMER REFERENCES





## **COMPANY VALUES**

### **MISSION STATEMENT**

Smartcrete will design, develop, manufacture in-house, inventory and distribute precast concrete elements, both for residential and commercial use. In addition, we will be supporting our customers for products that have not yet been created. We understand that and appreciate the many challenges our customers face regarding quality, pricing and deadlines. We will support those customers and their deadlines to the best of our ability. Not only with the common off-the-shelf items, but also diverse and custom items made especially for your project. Smartcrete is a valuable tool to you, the end-user, by manufacturing and providing not only common items but also non-standard, small quantity and difficult items as well. Smartcrete is one of many important and necessary links in a long chain of events that must take place in order to bring your project to a successful completion. We will do our best to make that successful completion happen.

### **VISION STATEMENT**

At Smartcrete, our vision is to be the best precast concrete manufacturer in South Africa – in the eyes of our customers, communities and people. We expect and demand the best we have to offer by always keeping Smartcrete's values top of mind.

Our values are:

- ★ Act with honesty and integrity
- ★ Treat people with respect
- ★ Conduct all business lawfully
- ★ Accept individual and corporate responsibility
- ★ Strive for customer satisfaction
- ★ Improve and innovate continuously
- ★ Never be wasteful
- ★ Always work effectively and efficiently

## **BLACK ECONOMIC EMPOWERMENT**

Smartcrete is an empowered South African Company. The company has been rated by a SAICA agency as a level 4 Contributor – 100% Procurement Recognition Level.

Download the current Certificate of Compliance from [www.smartcrete.co.za](http://www.smartcrete.co.za)

## **CONTACT DETAILS**

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Mnandi, Centurion  
  
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*Sales Director*

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*Production Manager*

## **COMPANY REGISTRATION DETAILS**

Registered Name	Smartcrete (Pty) Ltd
Trading Name	Smartcrete
Company Reg No	2014/152510/07
Vat Reg No	4250267996
Bank	FNB
Account No	6288173164
Branch	250655