

PPVC · PRECAST MANUFACTURING · SOUTH AFRICA

COMPANY PROFILE

BUILT FASTER. BUILT BETTER. BUILT TO LAST.

2026 · VOLUMETRIC BUILDING SYSTEMS



PRECAST AFRICA

VOLUMETRIC BUILDING SYSTEMS



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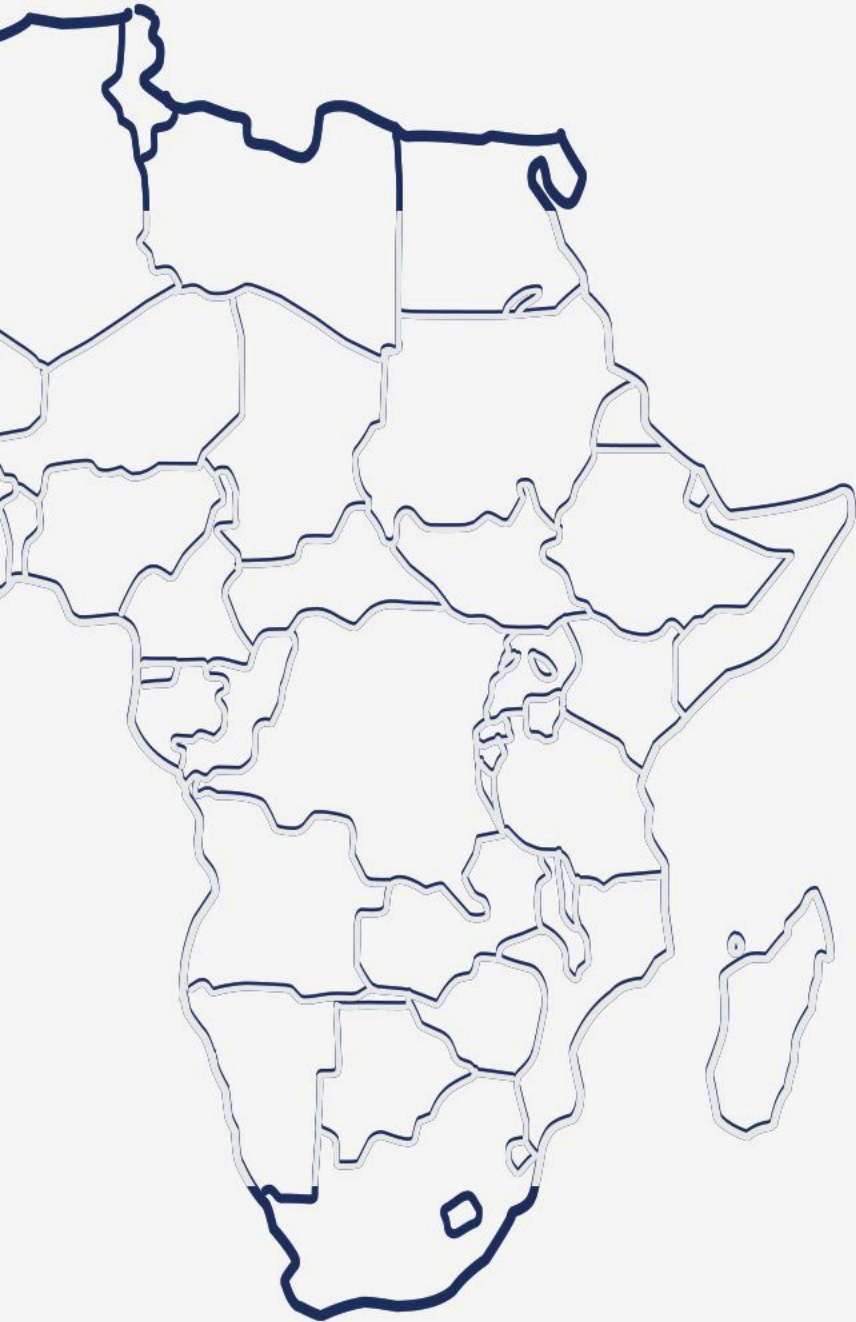
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Sustainability

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Welcome to **PRECAST AFRICA**



VOLUMETRIC BUILDING SYSTEMS

PRECAST AFRICA

TRANSFORMING CONSTRUCTION ACROSS AFRICA

Precast Africa is a South African precast manufacturing and industrialised-construction company. We cast complete reinforced-concrete room modules — PPVC, prefabricated prefinished volumetric construction — under factory control, finish them indoors, then deliver whole buildings to developers through one accountable team.

PRECAST MANUFACTURING FOR THE CONTINENT **THAT NEEDS IT MOST.**

[PRECASTAFRICA.COM](https://precastafrica.com)

Conventional building cannot close South Africa's housing gap. It is too slow, too wasteful, and too exposed to weather, delay and a shrinking skills base. So we moved the building into the factory: a volumetric precast manufacturing system that casts a monolithic room module every production day, to a standard that holds because it is made in controlled conditions rather than assembled in the open.

Our Story

What we are working towards is simple to say and hard to do — durable, dignified buildings delivered in months instead of years, at a quality the people who live and work in them can feel, and at a cost and programme a developer can commit to before the first pour.

One system, one accountable team, from the mould to the handed-over building.

WHAT WE ARE

PPVC · Volumetric precast concrete

SERVICE REGION

South Africa · SADC on programme enquiry

HOW WE DELIVER

Design-and-build or supply-and-install

ENQUIRY TYPES

Manufacturing · Installation · Development models

WE BELIEVE IN

SPEED AS A DUTY. PRECISION OVER EXPEDIENCE. HOUSING THAT DOESN'T WAIT.

OUR PURPOSE

Precast Africa exists to close the gap between housing demand and delivery. We manufacture PPVC concrete room modules under factory control and deliver finished buildings that endure — with a footprint that doesn't.

OUR VISION

A South Africa where quality homes are delivered in months, not years — where precast manufacturing precision and environmental responsibility make dignified living spaces accessible to every community that needs them.

OUR MISSION

To manufacture and deliver complete, lasting buildings through one accountable precast platform — with the speed, quality and certainty developers need, at the scale the housing challenge demands, and with the environmental discipline the future requires.

01 · THE CHALLENGE

Millions wait. The gap keeps growing.

02 · THE CONVICTION

Move the building into the factory.

03 · THE SYSTEM

One module. One pour. One day.

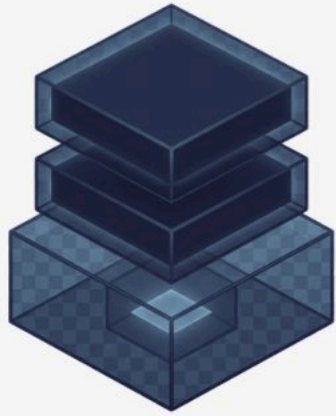
04 · THE OUTCOME

Complete spaces, delivered whole.



WHAT WE DELIVER

**FACTORY-CAST MODULES,
INSTALLED ON SITE.**



01

Volumetric precast manufacturing

MONOLITHIC ROOM MODULES, CAST IN ONE POUR

Four walls and a roof cast as a single reinforced-concrete volume on hydraulic 3D mould lines – PPVC precast manufacturing to a fixed and repeatable cycle.

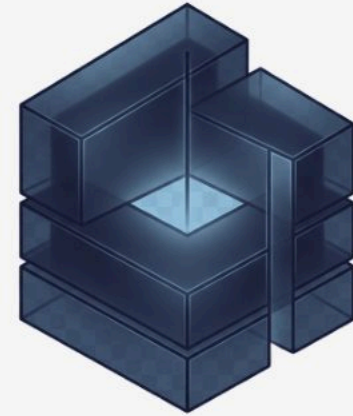


02

Factory completion

PRODUCT-SPECIFIC FIT-OUT UNDER FACTORY CONTROL

Services, wet areas, joinery and finishes installed indoors against a fixed scope matrix, with inspection hold points before release.



03

Construction and installation

FROM CERTIFIED SITE READINESS TO COMMISSIONED BUILDING

Foundations, bulk services and conventional works, then transport, lifting, placement, connection, testing and handover.

THE BENEFIT

PROGRAMME CERTAINTY BUILT IN.

40%

Faster Delivery

90%

In Factory Completion

90%

Up To 90% Less
Construction Waste

100+YR

Engineered Design Life

NHBRC | CIDB | ECSA · SACAP · SACPCMP | SANS | ISO 9001 | Agrément SA

01

SPEED

Faster delivery

Casting moves off the critical path. PPVC modules are manufactured in parallel with site preparation, so programmes shorten by 30–40% against equivalent in-situ construction.

02

QUALITY

Factory-controlled quality

Every module is cast in a steel mould under one inspection regime, so the fiftieth unit is held to the standard of the first – and each carries its own production record.

03

SUSTAINABILITY

Less waste, longer life

Up to 90% less construction waste than site-built methods, lower-carbon concrete mixes, locally sourced materials, and a 100+ year design life.

04

SCALE

Repeatable at volume

One precast module family across residential, commercial and industrial models. Standardised manufacturing keeps unit economics stable whether the scheme is 20 units or 2 000.

05

CERTAINTY

Predictable cost and programme

Layouts are fixed at design freeze and priced per module, so the building that arrives on site is the building that was priced – on the date the programme was built around.



PRECAST AFRICA
BUILT FASTER • BUILT BETTER • BUILT TO LAST

MANUFACTURING & INSTALLATION

OVERVIEW

ONE BUILDING SYSTEM. ENDLESS DEVELOPMENT POSSIBILITIES.

One volumetric precast system configured across residential, commercial and industrial development types — from subsidy-linked housing to hospitals, shopping centres to warehousing. Each model is factory-finished, programme-certain, and built for its market.

SYSTEM

One volumetric precast family

DELIVERY

Factory-finished, programme-certain





DESIGNED TO BE BUILT

The precast manufacturing system shaping the future of **African** housing.

Your architect keeps authorship; we make every room castable, liftable and connectable.

PPVC · Precast Manufacturing · South Africa

01

WE MAKE IT

Every room is cast as one solid concrete volume — no panels, and no wall-to-roof joint to fail.

02

WE FINISH IT

Services, wet areas, joinery and finishes installed under factory conditions, to one standard.

03

WE INSTALL IT

Foundations, transport, craning, connections, testing and handover — carried by one team.

ONE POUR. NO JOINTS TO FAIL.

Every Precast Africa building starts as a room cast in a single piece of reinforced concrete — four walls and a roof in one pour — then fitted out indoors and assembled on site.

The Core module is the room itself — a monolithic reinforced-concrete volume with straight, non-tapered walls and an integral roof, with door and window openings formed in the mould rather than cut afterwards. Every development model is assembled from the same two cast volumes: one for habitable space, one for vertical circulation.

[VIEW](#)



EVERYTHING A BUILDING NEEDS, FROM ONE LINE.



VOLUMETRIC ROOM MODULE

6.05 × 3.25 × 3.035 m nominal. Monolithic reinforced-concrete room, four walls and roof cast in one pour, with openings formed in the mould.

6.05M

LENGTH

3.25M

WIDTH

3.035M

HEIGHT

≈19.7M²

FOOTPRINT

PRECAST STAIRCASE

Adjustable horizontal mould casting a full flight with two landings. Tread and riser set on guided step formers; width adjusted with magnet-fixed side boards. One mould serves multiple stair geometries across a scheme.

UP TO 16 STEPS · GOING 0.25 M · RISER 0.17 M · 2 × 1.2 M LANDINGS







DEVELOPMENT MODELS

COMPLETE BUILDINGS,
MANUFACTURED WHOLE.

THE RANGE

ONE BUILDING SYSTEM. ENDLESS DEVELOPMENT POSSIBILITIES.

One volumetric precast system configured across residential, commercial and industrial development types – from subsidy-linked housing to hospitals, shopping centres to warehousing. Each model is factory-finished, programme-certain, and built for its market.





RESIDENTIAL

- 01 Multi-storey walk-up apartments
- 02 FLISP, social & affordable housing
- 03 Student accommodation
- 04 Low- & medium-rise estates
- 05 Luxury residential

[View Models](#)



COMMERCIAL

- 06 Office blocks
- 07 Hospitals and clinics
- 08 Schools
- 09 Shopping centres
- 10 Guardhouses
- 11 Mixed-use developments

[View Models](#)





INDUSTRIAL

- 12 Warehousing and distribution
- 13 Manufacturing and light industrial
- 14 Workforce accommodation
- 15 Site offices and accommodation
- 16 Change houses and ablutions
- 17 Plant rooms and substations

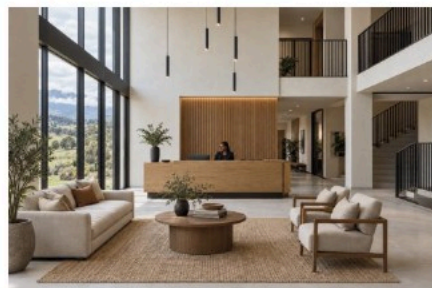
[View Models](#)

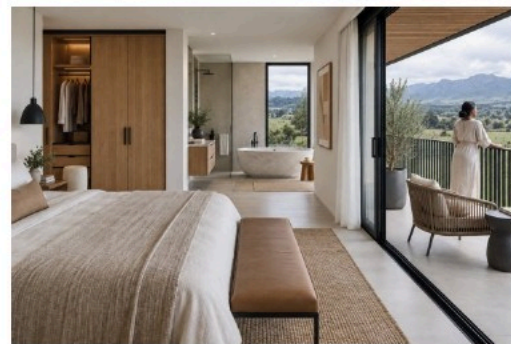


SUSTAINABLE INTEGRATIONS

[View Models](#)

- 18 Onsite Water & Waste Water Treatment
- 19 Solar Energy & Onsite Storage
- 20 Alternative Building Method Integration
- 21 On Site Waste Management & Recycling
- 22 Agriculture & Urban Agriculture







LESS WASTE. LESS CARBON. MORE HOMES.

Sustainability is embedded across the Precast Africa system — in material choices, production control, product durability and business governance — not bolted on afterwards.

SUSTAINABILITY



90%

LESS WASTE THAN EQUIVALENT
SITE-BUILT CONSTRUCTION

60-90%

OF CONSTRUCTION
COMPLETED IN CONTROLLED
FACTORY CONDITIONS

100+YR

LONG-LIFE CONCRETE
MODULES, LOW MAINTENANCE
DEMAND

MINIMAL

REDUCED NOISE, DUST,
TRAFFIC AND DISRUPTION ON
SITE

INTEGRATED DEVELOPMENT

**A settlement that
services itself.**

[Read More](#)

Precast Africa plans, manufactures and delivers every precinct of an integrated development – full-title homes, townhouses, apartments, the mixed-use centre and the civic buildings between them – with water, energy and landscape planned into the same masterplan, under one programme and one accountable team.

OUR TEAM

ONE ACCOUNTABLE TEAM, MOULD TO HANDOVER.



Michael Niemann
CHIEF EXECUTIVE OFFICER



Willem Niemann
DEVELOPMENT SPECIALIST



André Niemann
SUSTAINABILITY SPECIALIST

EIGHT VALUES. ONE STANDARD.

26 — OUR VALUES

Evidence governs every other value. What we say about the system is what we can show.



01 Speed

Speed is a duty, not a selling point. Casting in parallel with site works is how we honour that.



02 Quality

Every module, every measurement, every commitment held to standard.



03 Sustainability

Permanent construction that outlasts the compromises of conventional building.



04 Scale

One precast module family, endless development opportunities.



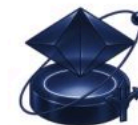
05 Certainty

Layouts fixed at design freeze, priced per module, delivered to a date.



06 Accountability

One team carries the entire chain from design freeze to handover.



07 Dignity

Speed is not the goal — dignified, safe, lasting places are.



08 Evidence

Every figure we state is drawn from a source document.

START A PROJECT — CONTACT

HAVE A PROJECT IN MIND?

Bring us a room schedule and a programme. We will tell you honestly whether industrialised delivery improves it, and what it would take to prove that on your scheme.

[Start Project](#)



OUR PROCESS

FIVE STAGES. ONE ACCOUNTABLE PARTY.

Each stage closes at an approval gate. Nothing advances on assumption.



01

**Consultation and
technical brief**

GATE OUTPUT

Qualified brief and product fit
assessment



02

Design coordination

GATE OUTPUT

Module strategy and interface
schedule



03

**Engineering and
detailing**

GATE OUTPUT

Frozen production drawings and
change baseline



04

**Manufacture and
quality assurance**

GATE OUTPUT

Released modules with traceable
production records



05

**Delivery and
installation support**

GATE OUTPUT

Commissioned, occupiable building
and as-built record



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www.precastafrika.com