

STRUCTURAL ENGINEERING + SYSTEM LOGIC

From engineered components to a repeatable operational system

EBOS combines central engineering, repeatable structural elements and integrated building functions into one system logic. The structural frame is not presented here as a proprietary profile drawing, but as part of the wider engineered platform.

INTEGRATED FUNCTIONS

Combine structural and building functions to reduce interfaces and simplify execution.

REPEATABLE VALUE UNIT

Each SigmaFast® profile is described in the EnWalls engineering deck as a repeatable value unit.

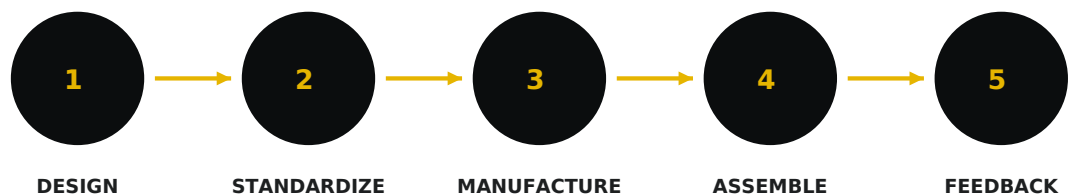
SYSTEM INTEGRATION

Structure, boards, insulation, profiles, cladding and access are coordinated as one scalable building platform.

PROJECT CONTROL

The system logic supports repeatability; project-specific loads, connections and compliance remain engineering tasks.

THE ENGINEERING LOOP



ENGINEERED ONCE. REPEATABLE BY DESIGN.

The value lies in the logic: controlled interfaces, standardized elements and coordinated assembly - while every project remains subject to its own structural verification.

ONE SYSTEM. COORDINATED COMPONENTS.

System architecture without exposing proprietary profile geometry

STRUCTURE

SigmaFast® structural frame

PANELS

CaSil+ wall / floor / roof panels

INSULATION

Thermo-Pan integrated in walls, roofs and floors

OPENINGS

TZLine aluminium windows & doors

MEP

Electrical + sanitary pre-installation modules

DELIVERY

Manufacturing and local assembly interfaces

EBOS™ OPERATIONAL SYSTEM

[coordinated interfaces](#) - [common engineering logic](#) - [scalable execution](#)

WHY THIS MATTERS

FEWER INTERFACES

Coordinate systems before site execution.

REPEATABLE LOGIC

Use common engineering rules across projects.

SCALABLE DELIVERY

Translate the same system architecture across markets.

DESIGN BASIS + CLAIM BOUNDARIES

What the current source material supports - and what remains project-specific

DOCUMENTED

SIGMAFAST®

Aluminium structural frame for the unit;
basis of the prefab shell.

Productfamilies & Hubs - EnWalls Africa Campus

DOCUMENTED

ENGINEERING EFFICIENCY

Integrated functions are presented as: less
material, smarter, faster, cheaper.

EnWalls engineering deck

DOCUMENTED

REPEATABLE LOGIC

Each SigmaFast® profile is described as a
repeatable value unit.

EnWalls engineering deck

POSITIONING

INTEGRATED PLATFORM

The platform integrates structure, boards,
insulation, profiles, cladding and access.

EnWalls engineering deck

PROJECT-SPECIFIC ENGINEERING STILL REQUIRED

- Structural load cases and local code compliance
- Connection and junction calculations
- Wind / seismic / deflection criteria where applicable
- Project-specific fire, acoustic and thermal assemblies

ENGINEERED CENTRALLY. VERIFIED PER PROJECT.

EBOS provides the system logic and repeatable component architecture. Final structural performance belongs to the project engineering package and applicable local standards.
[Sustainability and urban-impact metrics are addressed separately in Technical Performance 04.](#)