



CLADDING OPTIONS

Lightweight Building Solutions

CLADDING SYSTEMS



- Cladding Options
 - IESF
 - Porcelite
 - Equitone
 - Kalsi Boards
 - ARVAL
 - Marmoran
- LSF & Internal walling systems





IESF

Insulated
External
Steel
Frame



INSULATED EXTERNAL STEEL FRAME

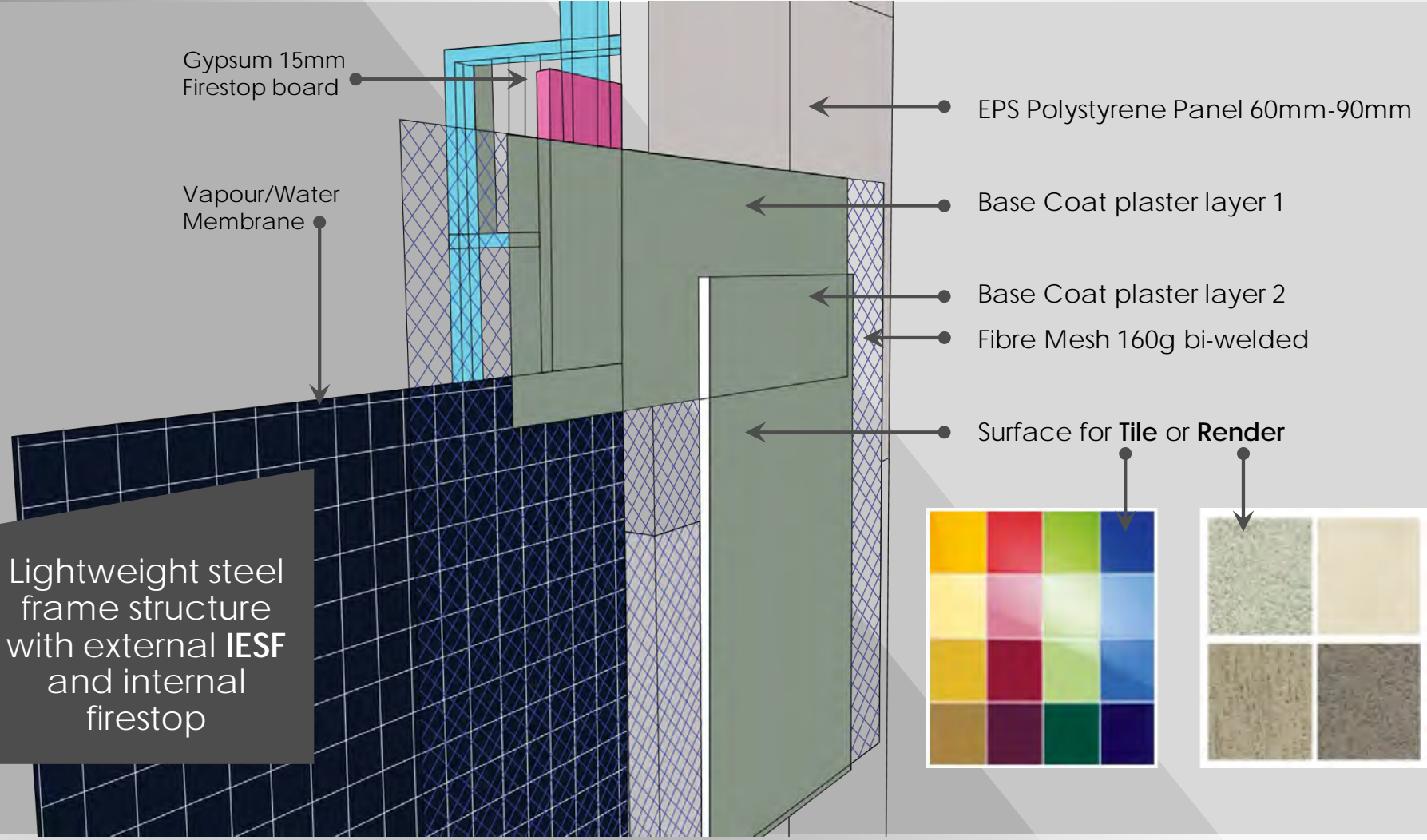


IESF

- Lightweight steel frame - Engineered structure.
- Moulded EPS board with backing grooves – Thermofix.
- Mesh enforced fibre and bonding plaster.
- Final plaster: textured polymeric colour render finish.
- Fire Rated 15mm/30mm Gyproc internal lining T&J finish



LBS WALL SYSTEM COMPONENTS





PORCELITE



 Ohlhorst
Africa

Ceragran

CLADDING OPTIONS – PORCELITE



• Porçelite

- Large Format
- Porcelain tiled Facade with Thermal and Fire Rated layers
- Non Ventilated System





 **EQUITONE**
Fibre cement facade materials

EQUITONE

 **MARLEY**
Building Systems



CLADDING OPTIONS – EQUITONE



ABOUT EQUITONE



Benefits of Equitone Cladding

- Excellent long-term durability
- Non-combustible
- Through-colour material for resistant to scratching and denting
- Unique architectural appeal and several different finish types
- No onsite finishing required
- Low maintenance
- Easy to fabricate and install using proprietary colour-matched rivets
- Proven performance in harsh environments globally
- Very high strength and impact resistance
- Can be cut to any shape and size

OHLHORST LBS - NOTABLE PROJECTS MALL@55



OHLHORST LBS - NOTABLE PROJECTS CAR SHOWROOM

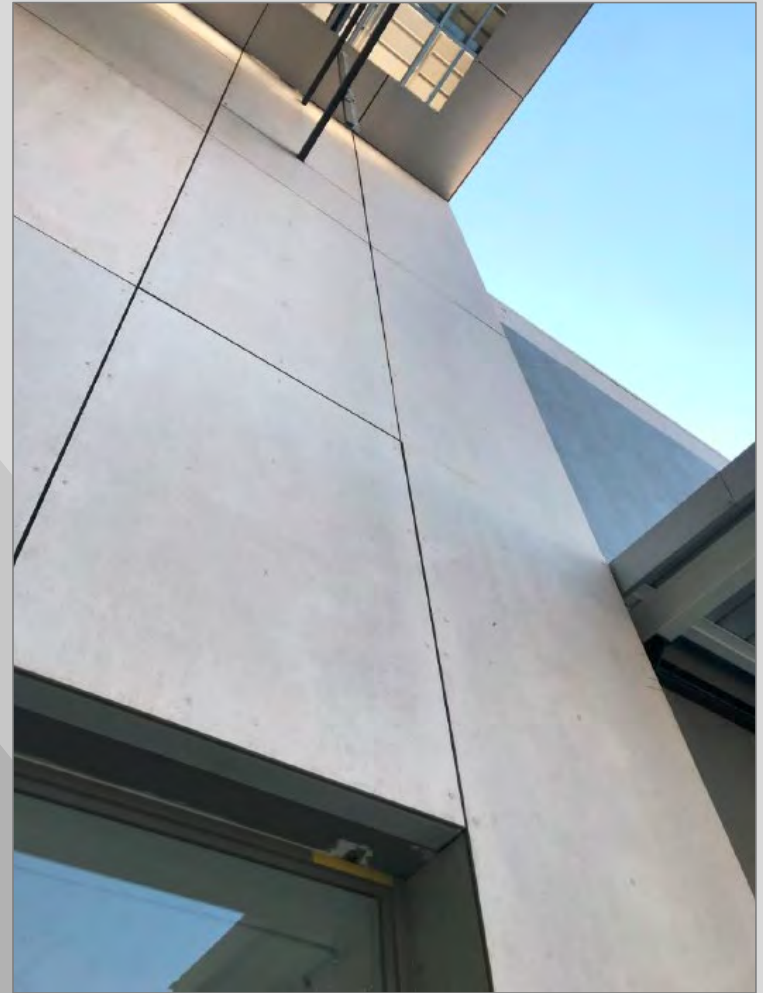




KALSI BOARDS



CLADDING OPTIONS – KALSI BOARDS



ABOUT KALSI BOARD



Benefits of Kalsi Board Cladding

- Fibre cement board
- 9mm, 12mm and 20mm thickness
- Natural cement finish
- Lower cost budget cladding
- Robust

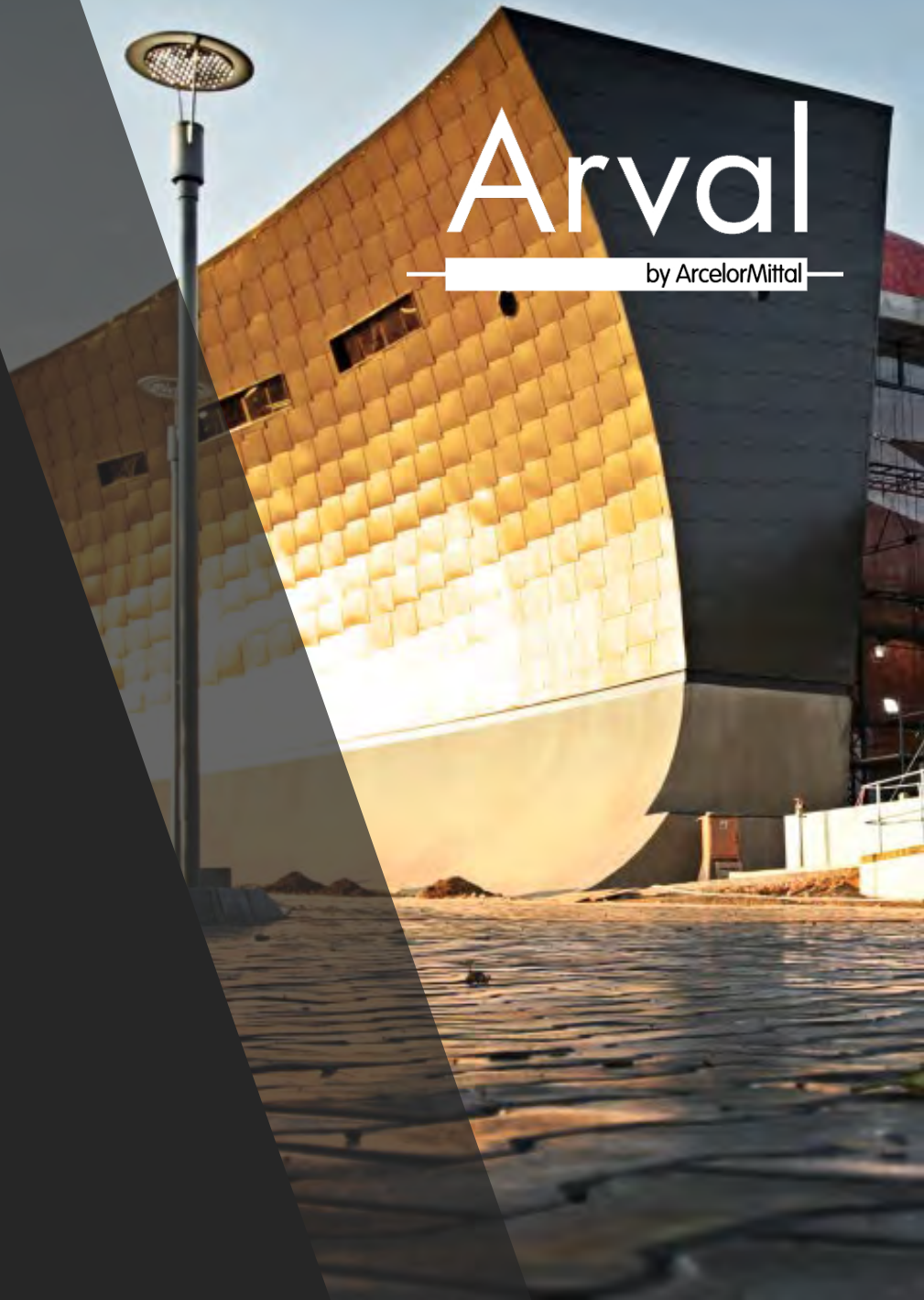
OHLHORST LBS - NOTABLE PROJECTS HOUSE MASHILOANE



CLADDING OPTIONS – KALSI BOARDS



 <p>100% ASBESTOS FREE</p>	 <p>Moisture and humidity resistant</p>
 <p>Resistant to termites and other insect attacks</p>	 <p>Non-combustible</p>
 <p>Can be curved for aesthetic solutions</p>	 <p>Dimensionally stable</p>
 <p>Impact resistant</p>	 <p>Easy to work and simple to install</p>
 <p>Accepts most aesthetic & architectural finishes</p>	 <p>Differing board thicknesses available, allowing flexibility in use</p>



Arval

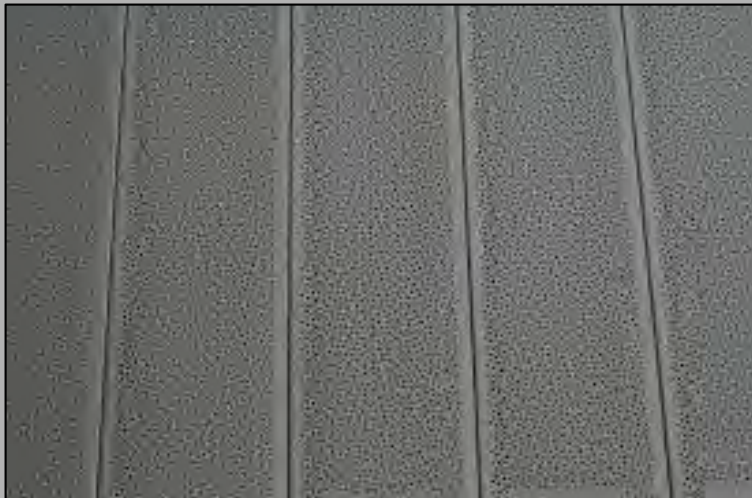
by ArcelorMittal

ARVAL

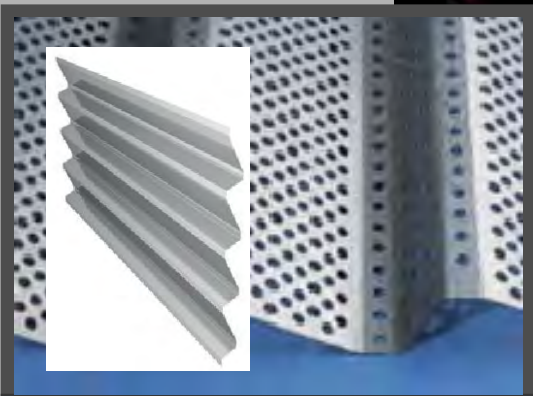


ArcelorMittal

CLADDING OPTIONS – ARVAL



CLADDING OPTIONS – ARVAL EXCLUSIVE FACADE SYSTEMS



Mascaret

Perforation 10 through 15,7%

Perforation 11,4 through 27%



Salle Multi - Activites de Kaltenhouse (F)
Architect: IXO Architecture

Ceragran

Ohlhorst



CLADDING OPTIONS – ARVAL CASSETTE SYSTEMS



Coques MD





MARMORAN COATINGS

Ohlhorst - Approved Marmoran Applicator



MARMORAN COATINGS

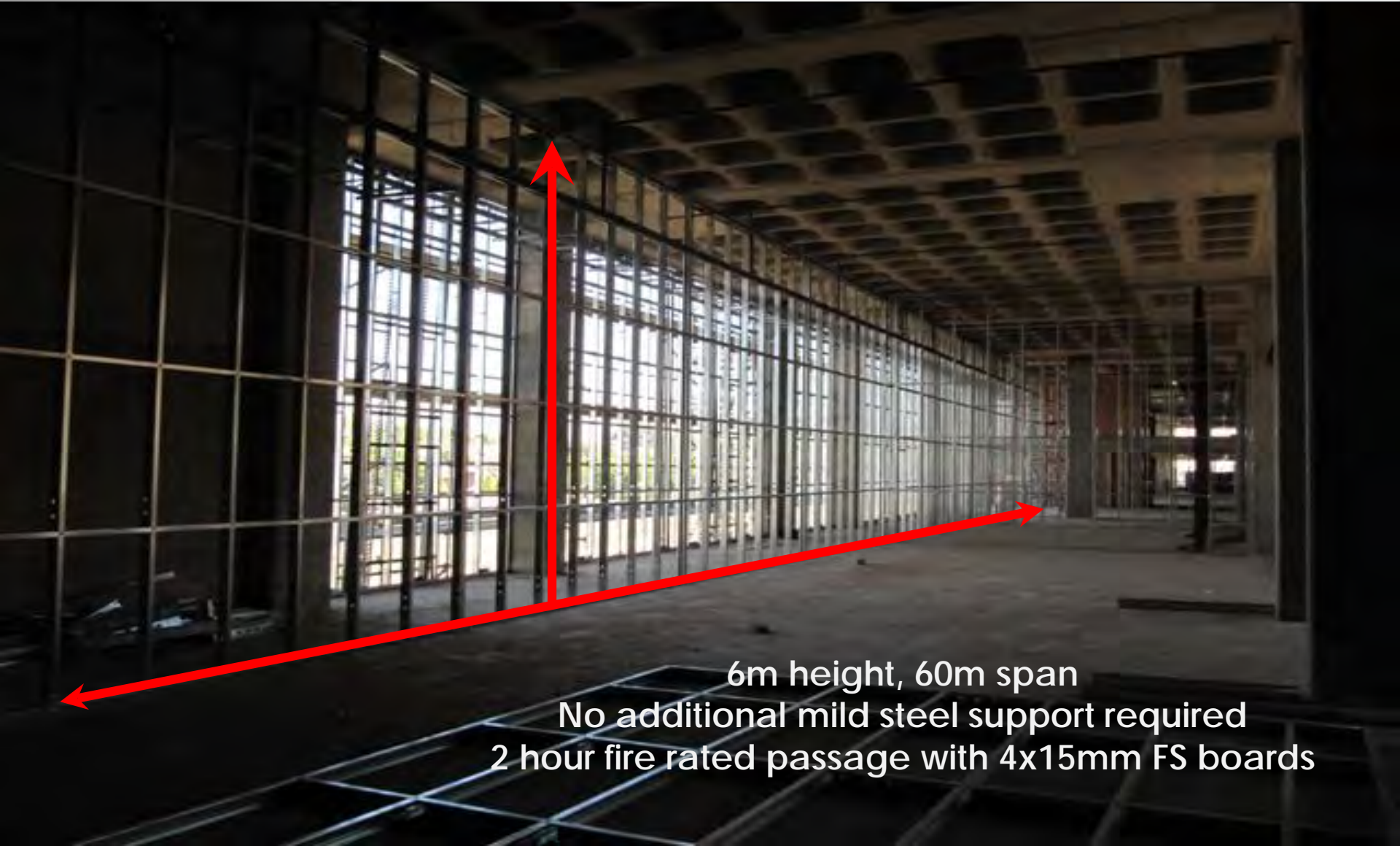
Ohlhorst offers a
TEN YEAR GUARANTEE
"through the wall"

- Marmoran range has initiated technically advanced solutions created by the Marmoran Research and Development team. In addition, all Marmoran Products are tested to National & International Standards by Three Independent Laboratories.
- This has led to Marmoran winning numerous awards, including the prestigious State Presidents Merit Award for Export Excellence and the Support Programme for Industrial Innovation.
- An ISO 9001:2000 company, Marmoran products and services are guaranteed to conform to international standards.
- Forming the backbone of the organization is the Licensed Applicator concept which is already established in over 40 countries. Supporting these Applicators are strategically situated Production Facilities.
- A Guarantee is issued when the Coating System is applied to full specification by a Licenced Applicator.
- The use of Marmoran products ensures unparalleled versatility in texture and colour whilst reflecting the best in contemporary international design trends.



LIGHTWEIGHT STEEL FRAME WALL SYSTEM

LIGHTWEIGHT STEEL FRAME WALL SYSTEM STRUCTURAL & SPANNING ELEMENTS

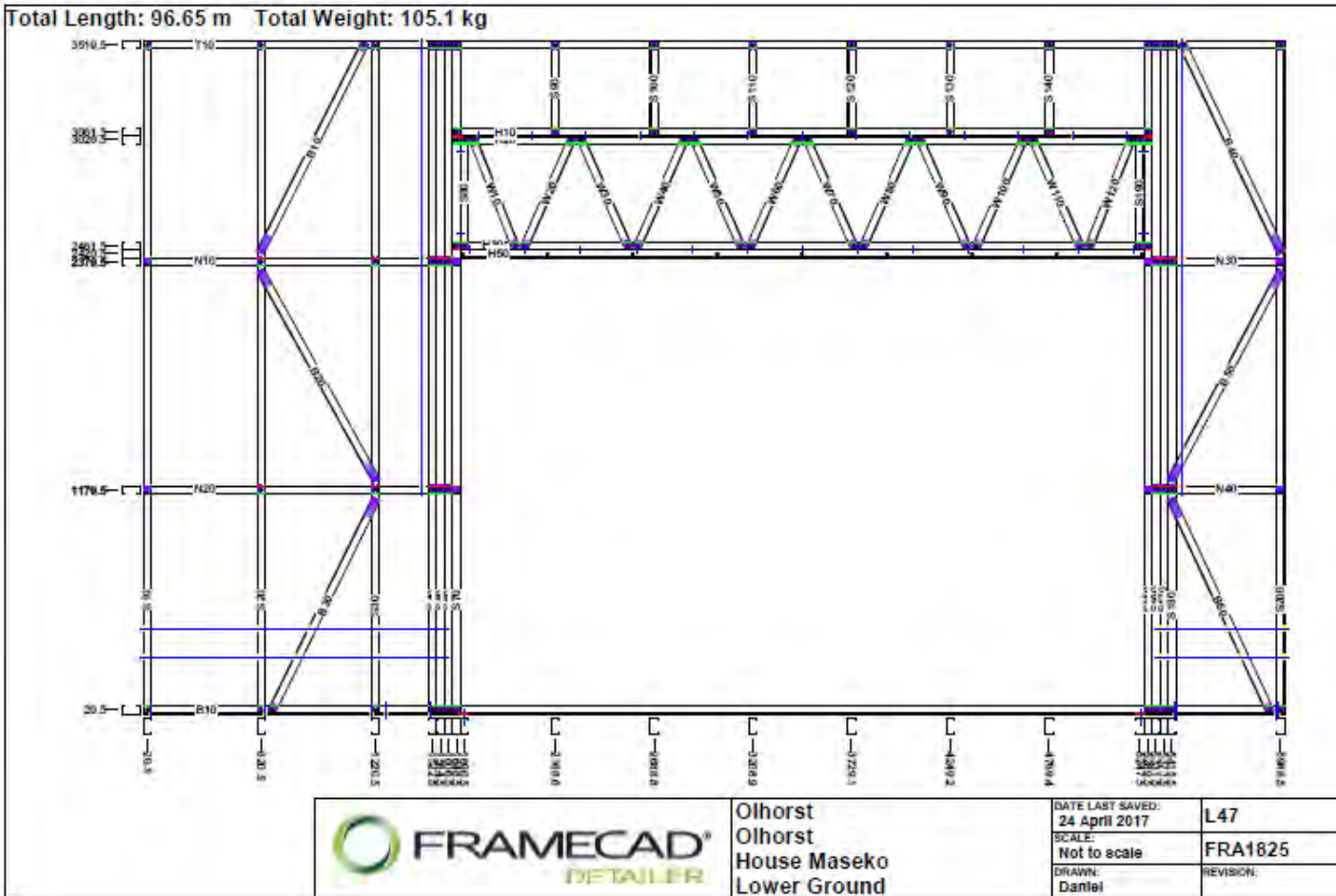


6m height, 60m span
No additional mild steel support required
2 hour fire rated passage with 4x15mm FS boards

LIGHTWEIGHT STEEL FRAME WALL SYSTEM STRUCTURAL & SPANNING ELEMENTS



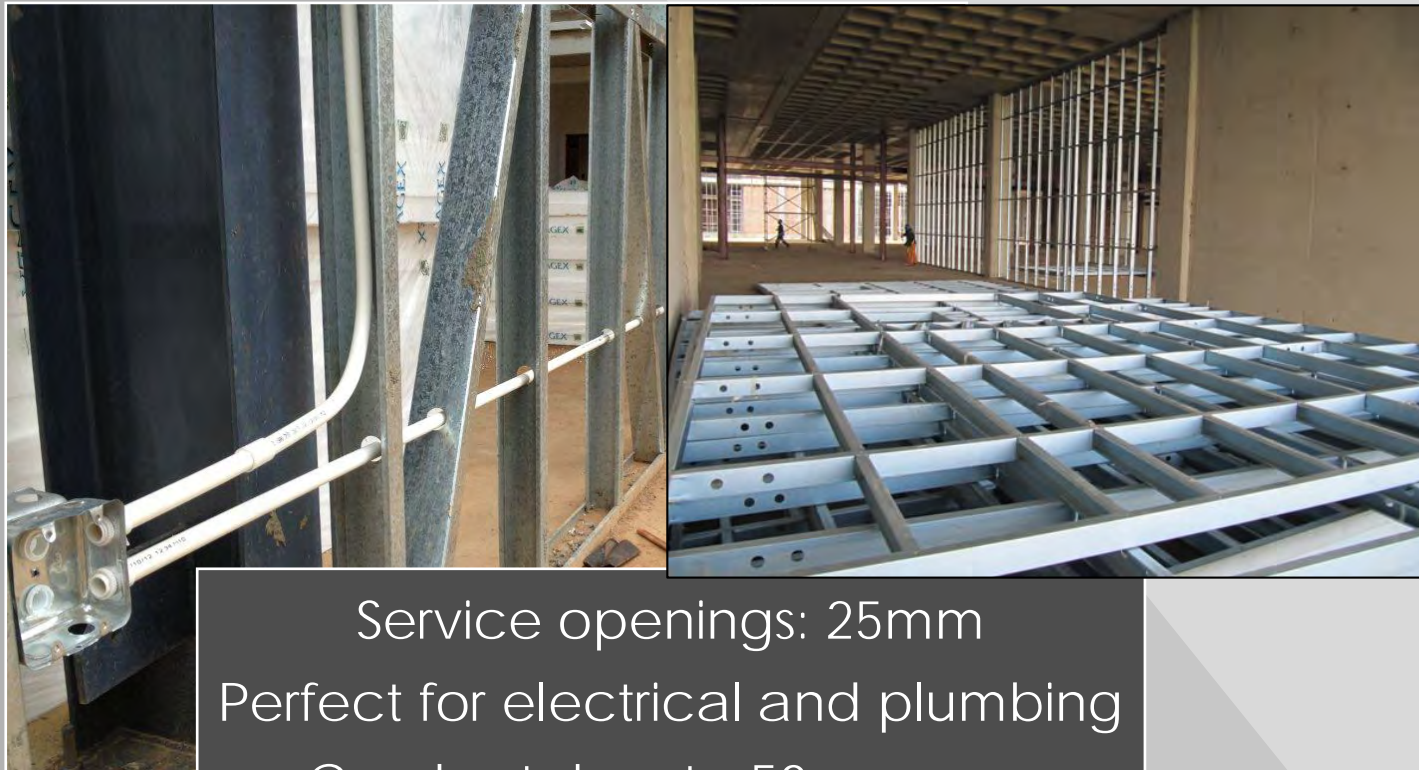
LIGHTWEIGHT STEEL FRAME WALL SYSTEM PANEL DESIGN



LIGHTWEIGHT STEEL FRAME WALL SYSTEM PRE PUNCHED SERVICES

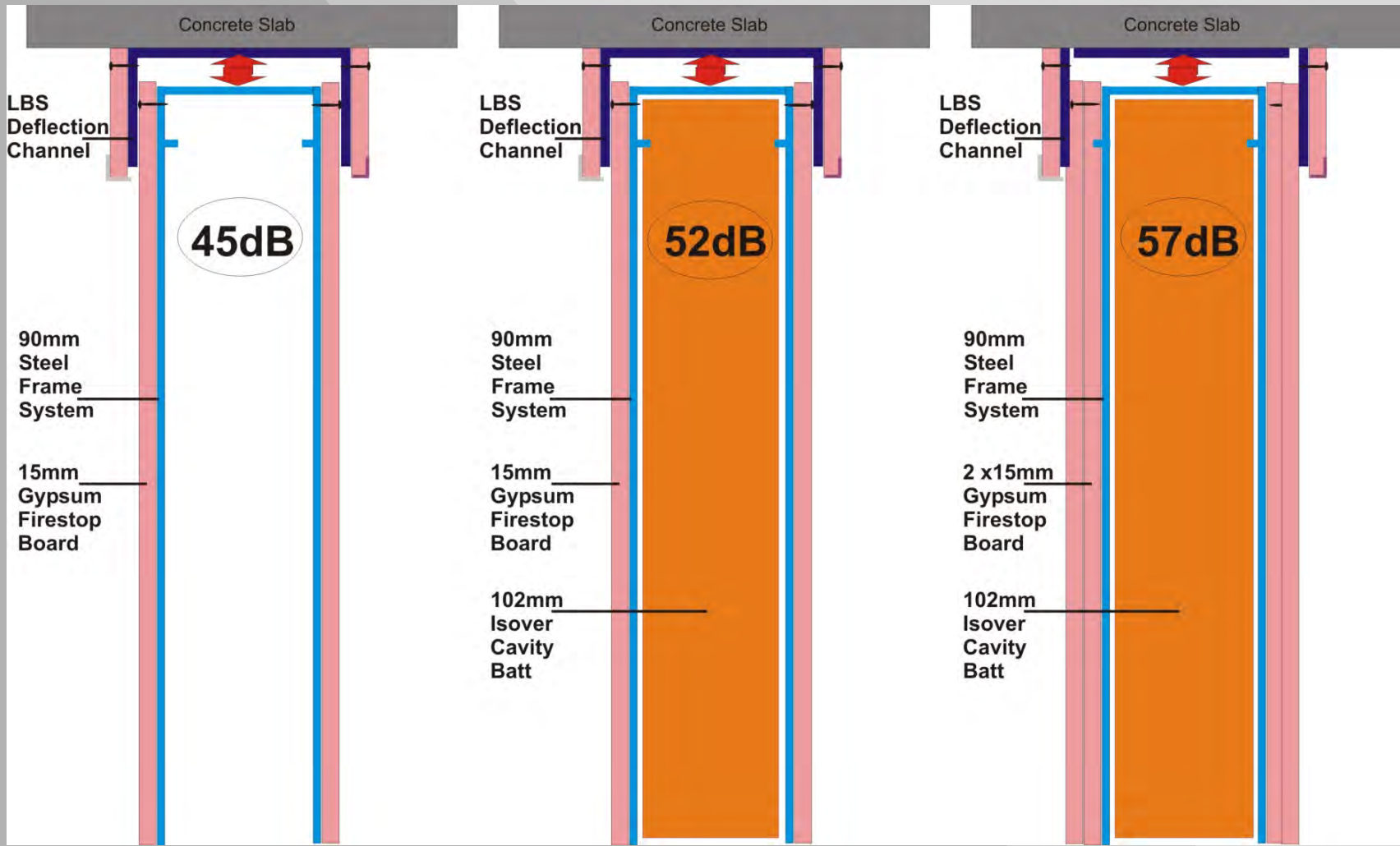


- Pre punched service holes at no cost
- Allows for future proofing



Service openings: 25mm
Perfect for electrical and plumbing
Can be taken to 50mm max

LIGHTWEIGHT STEEL FRAME WALL SYSTEM SOUND PERFORMANCE



110mm Brick+Plaster = 45dB

220mm Brick+Plaster = 49dB

LIGHTWEIGHT STEEL FRAME WALL SYSTEM WALL COMPARISON



	Brick Wall 115mm-230mm Single/Double Brick	Steel Frame Wall 120mm-150mm Single/Double Board
Quality	Skills Driven Quality	System Driven Quality
Fire Protection	1-2 hour	1-2 hour
Surface Appearance	Skill dependant	Smooth
Thermal Conductivity Lower = Better	K = 0.85 Watt/mC	K = 0.19 Watt/mC
Weight	270kg-540kg sqm	40kg-58kg sqm
Sound Insulation	43dB - 49dB	45dB - 57dB
Wastage	Extensive / non-recyclable	Minimal / Recyclable

LIGHTWEIGHT STEEL FRAME WALL SYSTEM BENEFITS TO THE CUSTOMER



NO CHASING	Services through pre punched holes - vertical and horizontal
THERMAL	Energy saving for the duration of the building's life
MORE USABLE AREA	Reduction in wall footprint. Internal 250mm-120mm. External 250mm on slab to 30mm on slab.
WEIGHT	40kg/m ² -58kg/m ² vs 270 kg/m ² -540 kg/m ² . Structural savings.
TIME SAVING	We have experienced a 30% program reduction versus conventional walling systems.
LESS LABOUR INTENSIVE	
WASTE	Low rubble accumulation due to less waste created and recyclability

OHLHORST GROUP OF COMPANIES



Tile Supply



Tiling &
Rendering



Stonework



Lightweight
Building Solutions

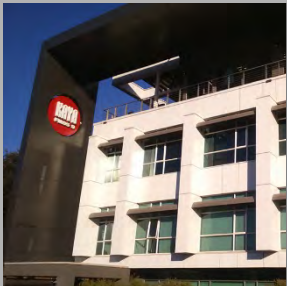
OHLHORST LBS - NOTABLE PROJECTS



2012



Lakeside



Grosvenor Corner



Hyde park Offices

2013



Summit place



Cell C



Secunda Mall



The Grove Mall

2014



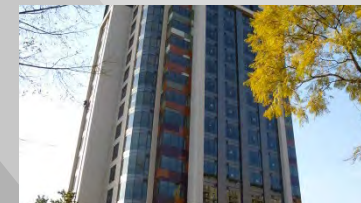
Balfour Park



Fire & Ice Hotel



The Club



Sandton Sky

OHLHORST LBS - NOTABLE PROJECTS



2015



University of Pretoria



Riverwalk Extension

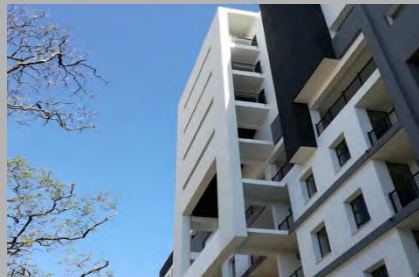
2016



Mall of Africa



Menlyn Mall



Vantage

2017



Grosvenor Corner



Summit Place



OHLHORST AFRICA

Lightweight Building Solutions

www.ohlhorst.com

info@ohlhorst.com

+27 12 327 2411

