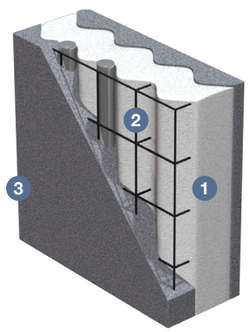
IKHAYA FUTUREHOUSE
IKHAYA FUTUREHOUSE SYSTEMS

STRONG & DURABLE | THERMALLY INSULATED EPS | MADE TO YOUR SPECIFICATIONS

FUTUREHOUSE WALL SYSTEM SPECIFICATIONS

DESCRIPTION	**APPLICATION** AREAS	PANEL **CORE SIZE**	WALL **THICKNESS**	**FIRE** RESISTANCE	**SOUND** DnT,w	**WEIGHT** m^2	MAX. WALL **HEIGHT**	**INSULATION**
		■ 2.	■ 3.			Unplastered / Plastered		
STRUCTURAL **EXTERNAL WALL** *Used as load bearing walls for single storey construction.* ■ 1.	• Private residences • Housing • Apartments • Clinics • Schools	120 mm	190 mm	60 min	46 dB	5 kg / 100 kg	3.5 m	R 2.9, U 0.3
		100 mm	170 mm	60 min	46 dB	5 kg / 100 kg	3.5 m	R 2.4, U 0.4
		80 mm	150 mm	60 min	46 dB	5 kg / 95 kg	3.5 m	R 2.0, U 0.5
STRUCTURAL **INTERNAL WALL** *Used as load bearing dividing walls.* ■ 1.		80 mm	150 mm	60 min	46 dB	5 kg / 95 kg	3.5 m	R 2.0, U 0.5
		60 mm	130 mm	60 min	46 dB	5 kg / 95 kg	3.5 m	R 1.5, U 0.6
NON-STRUCTURAL **EXTERNAL FACADE WALL** *Can be used in concrete, steel frame, or masonry block construction.*	• High-rise buildings • Shopping malls • Warehousing • Industrial buildings • Apartment blocks	120 mm	190 mm	60 min	46 dB	5 kg / 100 kg	9 m	R 2.9, U 0.3
		100 mm	170 mm	60 min	46 dB	5 kg / 100 kg	9 m	R 2.4, U 0.4
		80 mm	150 mm	60 min	46 dB	5 kg / 95 kg	9 m	R 2.0, U 0.5
NON-STRUCTURAL **SUBDIVISION / PARTITIONING WALL** *Can be used in concrete, steel frame, or masonry block construction.*		80 mm	150 mm	60 min	46 dB	5 kg / 95 kg	9 m	R 2.0, U 0.5
		60 mm	130 mm	60 min	46 dB	5 kg / 95 kg	9 m	R 1.5, U 0.6



1. Corrugated expanded polystyrene core
2. Three-dimensional reinforced mesh
3. Structural plaster

INSTALLATION & BRACING

10 WORKERS → **120** m^2 PANELS → **1** HOUR

SPRAY PLASTER TO LEVEL

2 WORKERS → **20** m^2 PANELS → **1** HOUR

Notes:

■ 1. Using wall panels as the main structural element on multi-storey buildings (i.e. with no support frame) requires additional engineering support based on the specifics of the project.

■ 2. All **Futurehouse** walls can be made with varying core thickness and density for particular project requirements. The above wall specifications illustrate typical usage scenarios for the lightweight core only.

■ 3. Typical structural plaster thickness is 35mm at deepest point and 20mm above mesh and is 14MPA strength.