



ACECEM

Build better, **Faster**

Extruded Concrete Hollow-Core Wall Panels
&

Structural Slabs, Made In Bali For

Villas

Resorts

Apartments

Commerce's

Industry

Infrastructure

That finish months ahead.

CHEAPER

30%

vs traditional block walls

FASTER BUILD

7.3x

78 m² in under 1 day

LABOUR SAVINGS

73%

3-person crew, not 6

RECYCLABLE

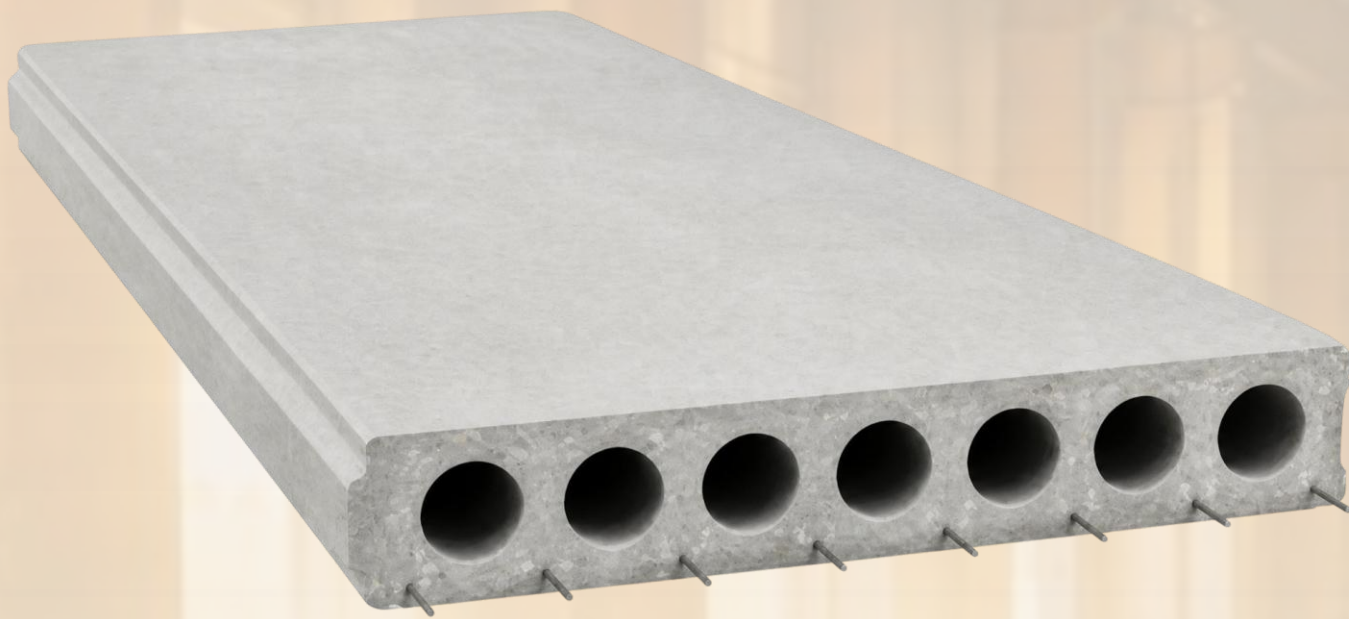
100%

zero-waste construction



Lower installed cost Faster wall build

ACE CEM 100 mm & 150 mm Concrete Hollow-Core Panels
600 mm wide | Cut 0.5 m to 12 m



Benchmarked against Hebel (AAC) and Concrete Hollow Block

- 100 mm THICK
- 7 ROUND CORES
- TONGUE & GROOVE JOINTS
- C40/C45

SPEED

11 min/ 1.8 m²

vs 45 min / m² for both AAC & hollow block

INSTALLED COST

IDR 500–550K

per m² all-in installed wall

COVERAGE IN ONE SINGLE GO

1.8 m²/3.0 m panel

3.0 m panel covers 1.8 m² of wall in one lift

SAVINGS

+1/3 cheaper

vs hollow block & Hebel baselines

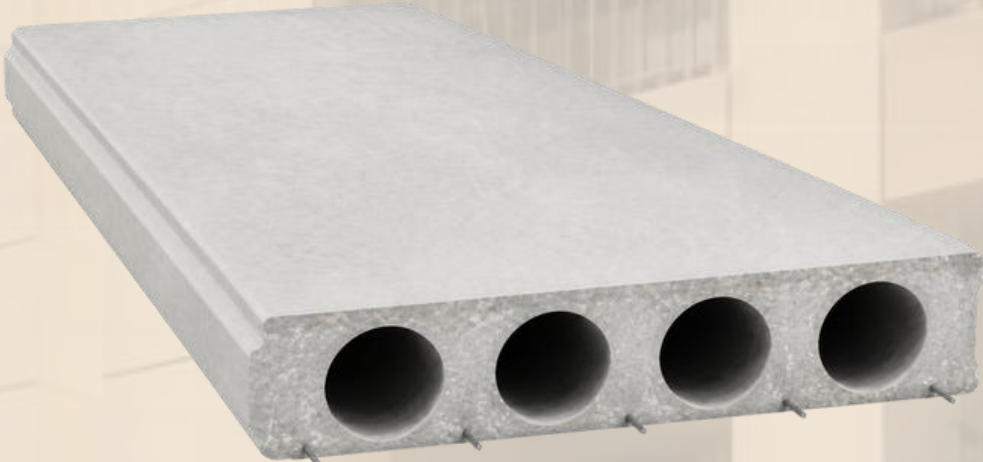
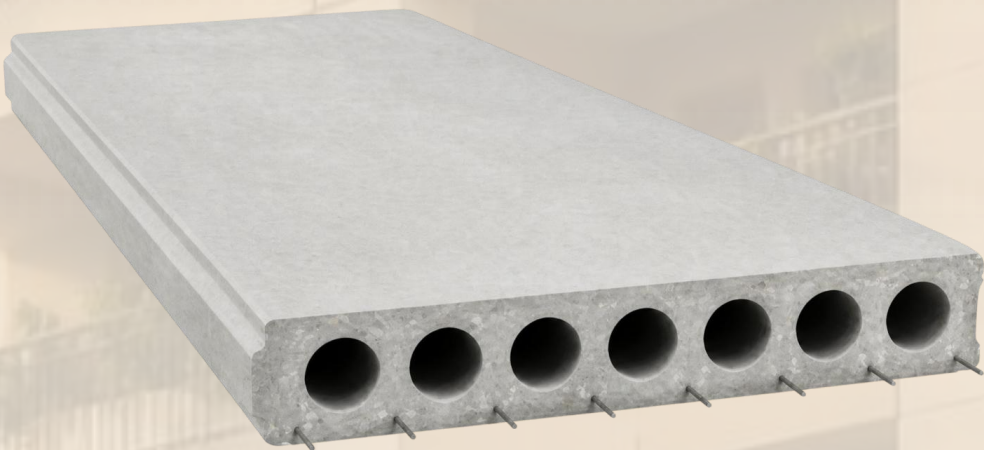


Two thicknesses cut to your required length

Both **ACECEM** panels are 600 mm wide and cut to order
from 0.5 m to 12 m long

Wall panel · 100 mm

Wall panel · 150 mm



- 7 round cores
- 33% less concrete than solid
- Benchmarked in this deck vs AAC and hollow block
- 3.0 m panel covers 1.8 m² of wall in one lift

- 4 larger round cores
- 42.24% less concrete than solid, greater section depth
- For longer spans, party walls and higher loading
- Also produced in-house, same plant, same process

WIDTH · BOTH PANELS

600 mm

CUT TO LENGTH

0.5 m – 12 m

EDGE JOINT · BOTH PANELS

Tongue & Groove



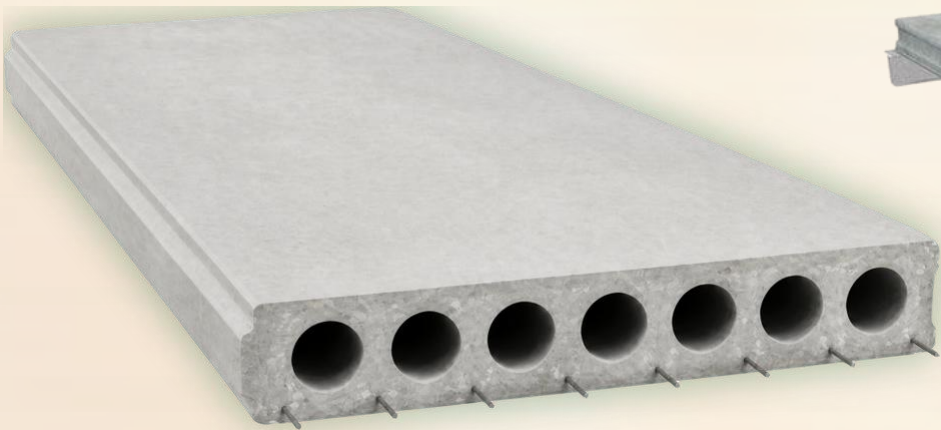
ACE CEM

Walls & Slabs one system

Wall panels, floor & roof slab sections are available in a range of options to fit any project.

WALL PANELS
Hollow-core wall

FLOOR / ROOF SLABS
Structural slab (coming Soon)



SLAB LOAD CAPACITY

$\approx 4.6 \text{ kN/m}^2$

SLAB THICKNESS RANGE

200 – 300 mm

SPAN LENGTH OPTIONS

2.0 m – 9 m

SLAB WIDTH OPTIONS

900 / 1200 mm

- 100 / 150 mm thickness available
- 600 mm standard panel width
- Non-load bearing · cut-to-size on site
- Up to 78 m² installed per day by 3 people

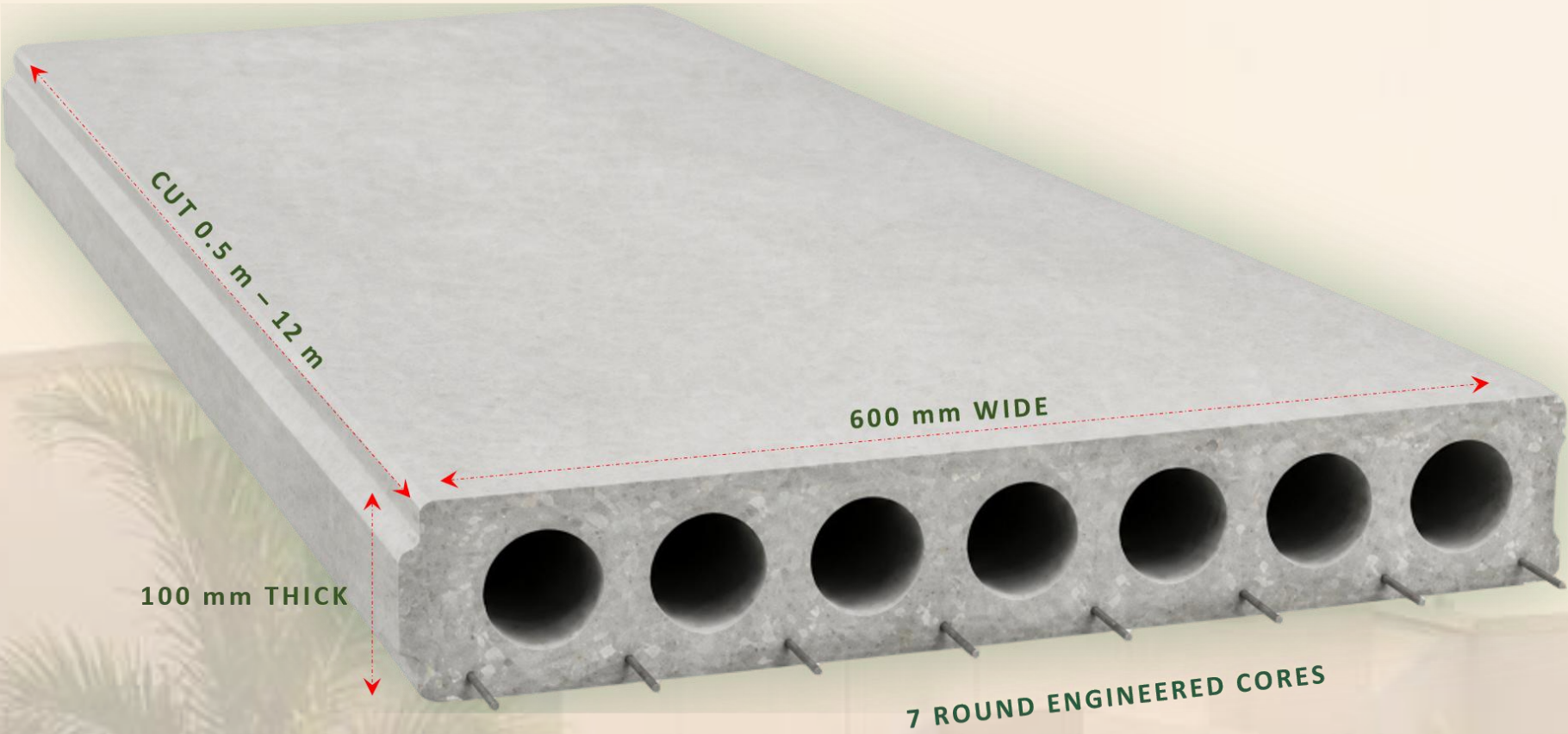
- 200, 250, 300 mm standard slab thickness
- 900 / 1200 mm slab width options
- Same plant, same hollow-core process
- Custom panel and slab sizing available



ACE CEM

Engineered voids not thin walls

600 mm wide · 100 mm thick · 7 round cores
cut 0.5 m to 12 m · C40/C45 concrete



COVERAGE

1.8 m² / 3.0 m panel

CONCRETE

C40 – C45

MATERIAL SAVED

33% less

REINFORCEMENT

8 × Ø6 mm wire

Tongue & Grooves Joints

Joints run the length of each flank

Adjacent panels slot together, reducing installation errors
& excessive use of mortar



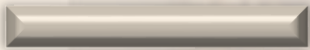
The comparison at a glance

100 mm wall · 1.8 m²
completed material + installation

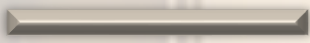
COVERAGE (1.8m² PER **ACE CEM** Panel)



1.8
ACE CEM
100 mm PANEL



0.12
HEBEL / AAC
100 mm BLOCK



0.08
HOLLOW BLOCK
100 mm CHB

ACE CEM PANELS ARE UP TO 7.3× FASTER TO ERECT THAN HEBEL

ACE CEM | PANELS

11 MIN TO ERECT ONE ACE CEM PANEL OF 1.8 M²

11 min

HEBEL / AAC | SLOW · LAY + ADHESIVE + DRY

SPEED TO ERECT 1 m² of HEBEL BLOCK

45 min

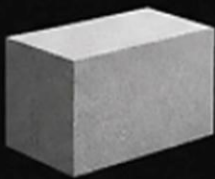
CONCRETE HOLLOW BLOCK | SLOW · LAY + MORTAR + CURE

SPEED TO ERECT 1 m² of CONCRETE HOLLOW BLOCK

45 min



ACE CEM PANEL
1 panel = 1.8 m²
LOWEST



HEBEL / AAC
15 × 0.12 m² each



HOLLOW BLOCK
22 × 0.08 m² each



Better on *every* metric

ACE CEM

wall panels outperform traditional block wall construction on nearly all key metrics.

45 m² BUILD

ACE CEM

BLOCK WALLS

Wall build time

< 4.5 hours

4.4+ days

Crew size needed

3 workers

6 workers

Seismic resistance

Excellent

Moderate – low

Thermal performance

High

Moderate

Moisture resistance

Superior

Moderate – low

Material waste

Zero · 100% recyclable

High waste

Overall cost

30% cheaper

30% more expensive

ACE CEM Panels have the strongest section, tallest unsupported span, fastest install, and no wet-trade on site.



The choice is clear

Compared side by side with the other common wall construction methods in Bali. (8-hour wok day)

CRITERIA	ACE CEM	BLOCK	AAC HEBEL	PLASTERBOARD
Thickness (mm)	100 / 150	110	200	100
Weight (kg/m ²)	182 / 223	324	144	40
Speed (m ² /person/day)	15 – 30	4 – 6	10.6	15 – 20
Strength (kgf/cm ²)	350 – 425	70 – 150	< 50	N/A
Max height (non-load bearing)	12 m	2.5 – 3.5 m	3 – 4.5 m	3.5 – 4.5 m
Method	Semi-dry	Wet	Wet	Dry
Fire resistance	2 – 4 hr	3 hr	1 – 4 hr	1 – 2 hr

VERDICT

ACE CEM

Panels have the strongest section, tallest unsupported span, fastest install, and no wet trade on site.



Installed cost per m², all-in

Same villa, three wall systems
IDR per m² of 100 mm
wall material + labour + joints

ACE CEM Panels Per m2 LOWEST · ENDS BELOW 550K

HOLLOW BLOCK

400–550 IDR K/m²

Masonry baseline
wet trade

HEBEL / AAC

500–650 IDR K/m²

AAC catalogue
baseline imported

ACE CEM 100 mm

500–550 IDR K/m²

Hollow-core panel
semi-dry



ACE CEM

Wall panels undercut both Hebel (AAC) and hollow block on cost-per-square-metre, while shipping fewer labour hours, fewer joints, and a faster & better finish.



Four Components Four Wins

Material · Labour · Time · Jointing

Each pulled tighter than AAC or blockwork

MATERIAL

33% less

Hollow core vs a solid 100 mm wall, not raw material cuts.

ENGINEERED HOLLOW CORE

LABOUR

73% less

3-WORKER CREW SUFFICES

TIME

7.3×faster

11 min / 1.8 m² vs 45 min/ 1 m² for both AAC and block

JOINTING

Lowest joints

Fewer jointing mortar bags · no render prep · cleaner finished wall

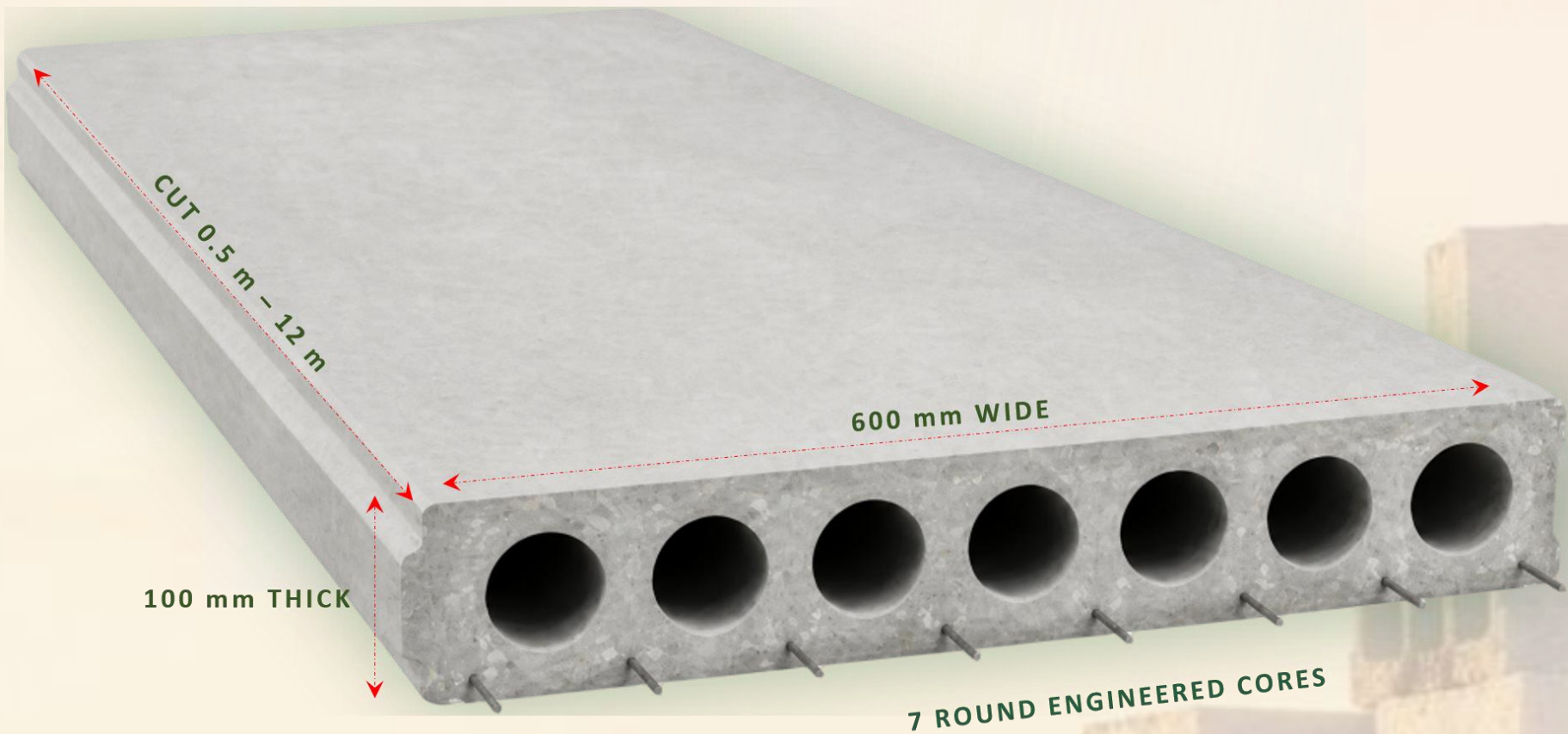
ACE CEM

**TOTAL vs BLOCK / AAC
≈ 30% LOWER INSTALLED COST**



One **ACE CEM** panel replaces 22 blocks

Less handling. Fewer joints. Faster alignment
Better productivity



ACE CEM PANEL
ONE PANEL

LENGTH
CUT 0.5 m – 12 m

WIDTH & THICKNESS
600 mm Wide
100 mm Thick

=

22 × HOLLOW BLOCKS. 0.08 m² EACH

22 × 0.08 m² = 1.8 m² AT THE WALL

15 × HEBEL / AAC BLOCKS. 0.12 m² EACH

15 × 0.12 m² = 1.8 m² AT THE WALL





A small crew, a short build

A 3-person crew finishes a 200 m² villa wall in under three days with **ACE CEM**.

HEBEL or hollow block need more than two and a half weeks

MINIMUM CREW	ACE CEM PER 1.8 m ²	LABOUR SAVINGS
3 workers	11 min	+73% less
Trained 3-person field crew	vs 45 min for 1m ² of Hebel Or Concrete Hollow block	vs Hebel baseline Or Concrete Hollow block

DAY-COUNT COMPARISON · 200 m² WALL · 3-PERSON CREW · 8 HR DAY

HEBEL BLOCK



18.76 days

ACE CEM



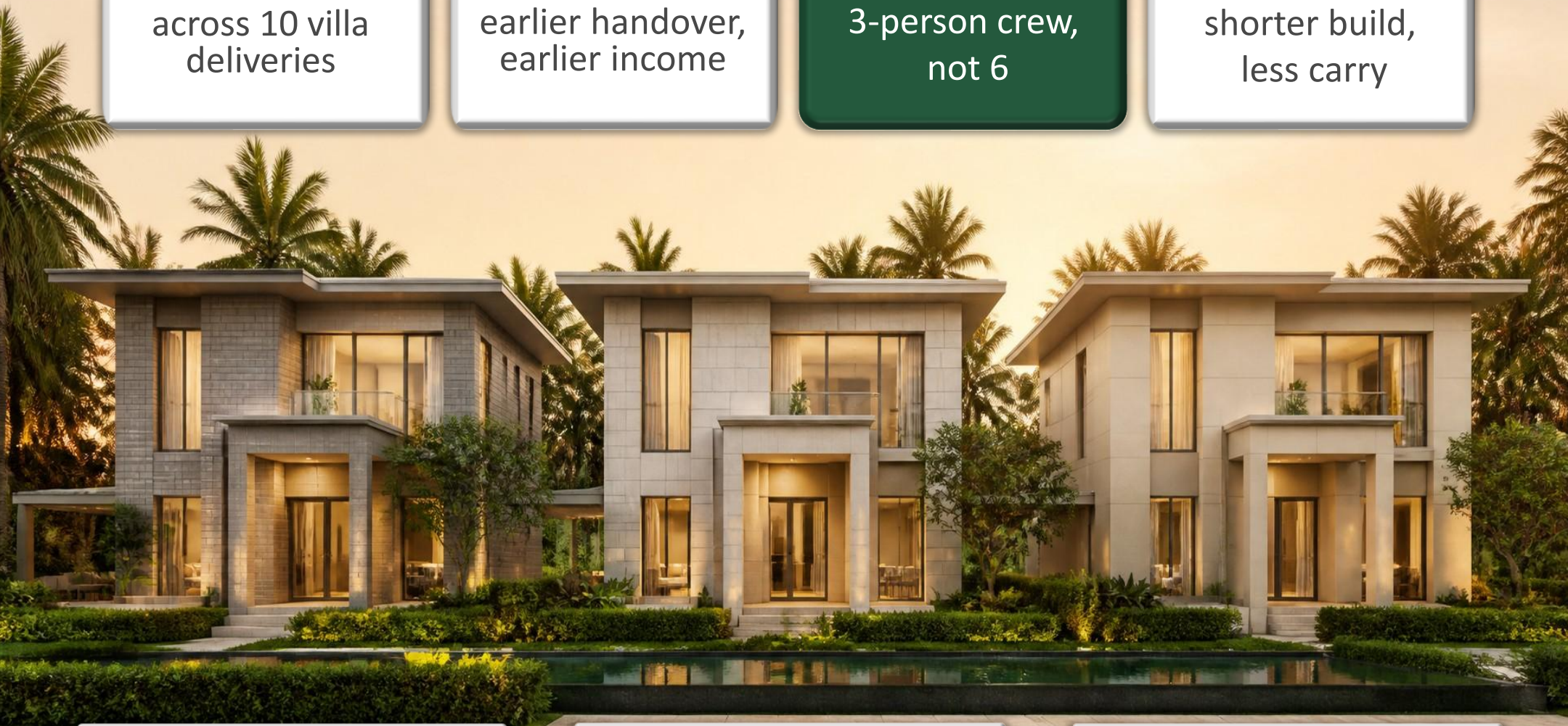
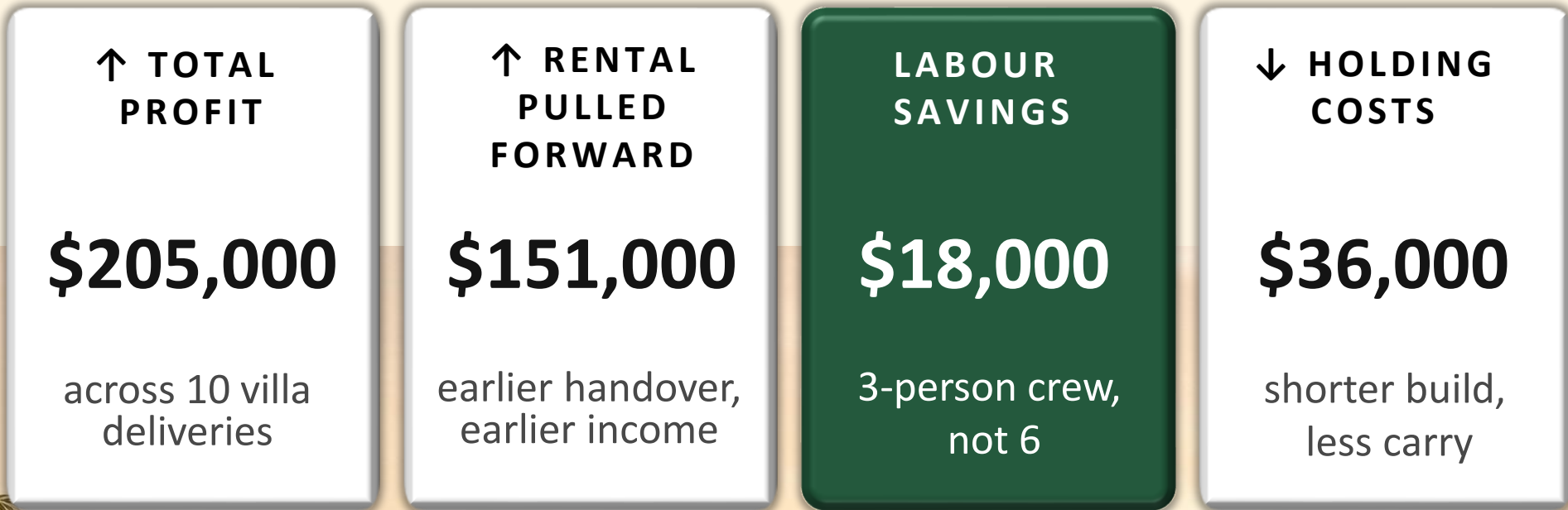
2.54 days

16.22 DAYS SAVED · per 200 m² · 3-person crew · 8 hr day



ROI in numbers

Across ten villa deliveries, the developer pulled forward rental income, cut holding costs, and freed crew capacity for the next project.



SAME 10-VILLA PROJECT · DIFFERENT WALL SYSTEMS

ROI SUMMARY

ACE CEM delivers more than 6× the developer's profit uplift vs AAC baseline and is the only system where rental pulled forward exceeds holding cost saved.



What people compare

What matters

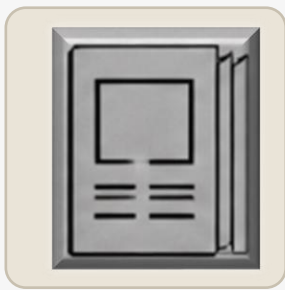
A cheap-looking unit is rarely the cheapest wall.

WHAT PEOPLE COMPARE

Surface-level pricing.



UNIT PRICE



CATALOGUE



STALE QUOTES

- ▶ Sticker price only
- ▶ Catalogue-only baseline
- ▶ Stale supplier quotes

WHAT ACTUALLY MATTERS

Total installed value.



✓ LABOUR



✓ TIME



✓ PRODUCTIVITY

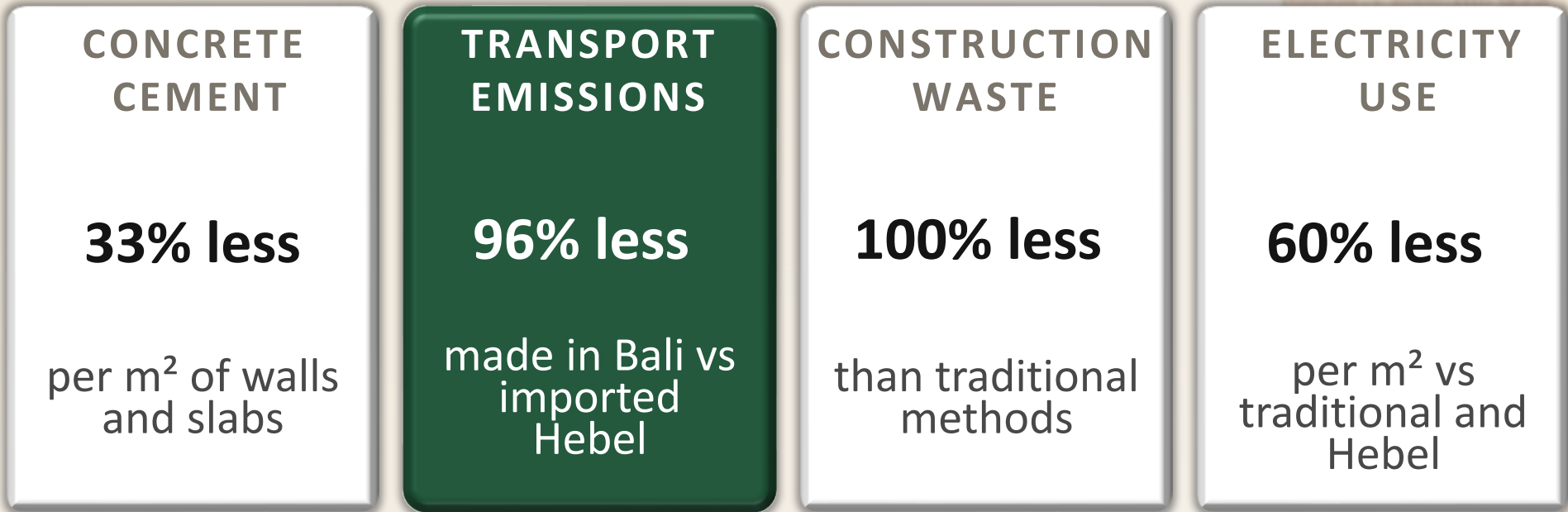
- ▶ Supply + freight + handling
- ▶ Installation & crew rates
- ▶ Jointing + finishing + speed

REAL VALUE = MATERIAL + LABOUR + TIME + PRODUCTIVITY

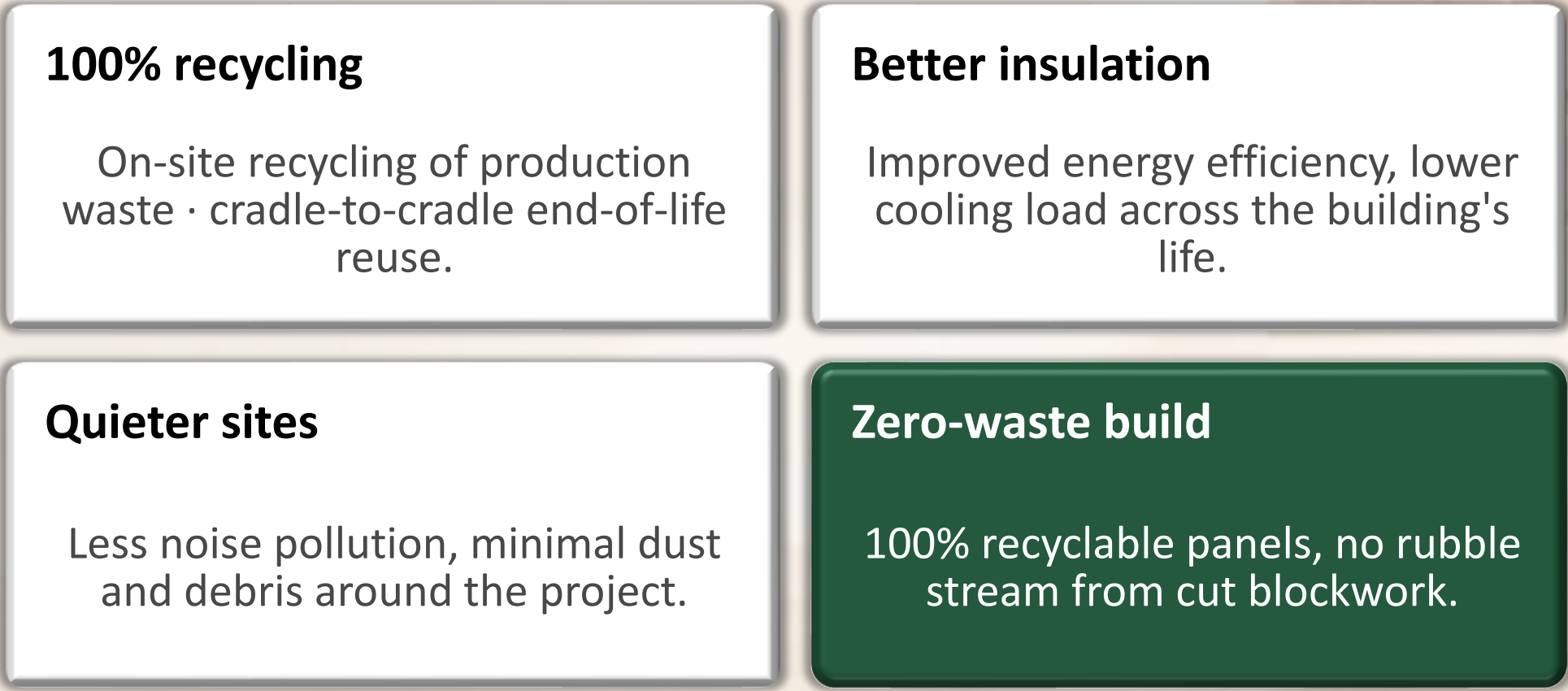


Lower impact, higher ROI.

Less energy, fewer emissions and better lifetime efficiency than standard construction in Bali



ACROSS THE WHOLE LIFECYCLE



Every **ACE CEM** panel reduces in-bound freight, on-site waste, and lifetime energy load, and Bali's grid keeps getting cleaner.



Already designed? Switch

Project already designed and engineered?
The transition to panels is fast, simple and cost effective

RAPID DESIGN TRANSITION

Adapt Within Days

Engineered design adapted to panels
within days

Compatible with steel and concrete
structures

Custom panel and slab sizing available

DESIGN FIT

Balinese & Modern

An ideal system for both traditional
Balinese and contemporary
architectural designs.

IN-WALL SERVICES

Routed, Not Chased

Wire, conduit and piping route inside
the wall

Wall-mounted AC, equipment and
artwork

Smooth surface ready for any finish

INCLUDED

Support & Training

Structural design assistance available,
with training included in partner
onboarding.

Architects and engineers can substitute **ACE CEM** panels into existing drawings with minimal rework, keeping the design intent while cutting months off the schedule.



Four steps, start to finish

From panel layout to a surface ready for any finish, with our team alongside at every stage.

01 Design

ACE CEM engineering and design expertise is available to optimise your panel layout.

LAYOUT OPTIMISED

02 Fabricate

Approved orders are slotted for fabrication in our factory and stored ready for delivery.

MADE IN BALI

03 Installation

Only 3 workers needed, using our simple alignment and connection system

3-PERSON CREW

04 Finishing

Easy routing for wires, conduit and piping, and a smooth surface ready for any finish.

READY TO COAT

ACE CEM TRAINING & SUPPORT

From design assistance to field construction training, our team ensures your project's success.

- ▶ Engineering layout review by our team
- ▶ On-site crew training at first installation
- ▶ Ongoing partner support through delivery



Who we build for

One panel system, scaling from low-cost housing through to luxury hospitality.



01

Apartment & Commercial

Multi-unit villa programmes where every week of build time compounds into rental income.



02

Hotels & resorts

Quieter, dust-free installation that can run alongside an operating property.



03

Villa developers

Walls above 12 m unsupported, with floor and roof slabs from the same line.



04

Eco investors

The same system serves both ends of the market.



05

Architects

33% less cement, 96% fewer transport emissions and 100% recyclable material.



06

Low-cost to luxury

Suits both Balinese and modern design languages, with in-wall service routing.

ONE SYSTEM · EVERY SEGMENT

Whatever the segment, the maths are the same, faster walls, smaller crews, lower installed cost.

- ▶ Faster walls · 11 min / 1.8 m² vs 45 min for AAC and hollow block
- ▶ Smaller crews · 3 trained workers replace 6 on the wall
- ▶ Lower installed cost · 30% below block & AAC baselines



Not our first plant

A Bali-based extrusion line, backed by decades of international project and cement-technology experience

EXPERIENCE

Our Bali Extrusion facility is backed by a professional team having completed +800 Cement related projects Worldwide

EXPERTISE

Swiss Engineering combined with our team's expertise in cement plant design & technology reaches back to 1959.

+90

COUNTRIES
WORLDWIDE

CEMENT
RELATED
PROJECTS
COMPLETED

+800

PROJECTS

PLANTS IN THE
GROUP'S
WORLDWIDE
FOOTPRINT

66 yrs

CONSTRUCTION
EXPERIENCE

IN CONTINUOUS
OPERATION
GLOBALLY

BEHIND THE PANEL

Seven generations of cement expertise, applied to a hollow-core line built for Bali.

Development, design, construction and business leadership, all represented on the Bali team



Bottom line, lasting value

Developers are choosing ACE CEM panels to enhance their project's bottom line and lasting value.

BUILD FASTER

73%

Complete walls in 1 day vs 7.3 days traditional, for a 78 m² build

Zero construction waste

Reduce crew size by 50%

Get to market 3.6 months earlier

SLASH COSTS

+30%

Cut labour costs 50–60%

Lower holding costs mean higher profits

33% less concrete than traditional methods

VALUE BALI'S FUTURE

100%

100% recyclable materials

96% fewer transport emissions vs imports



Build a 1.8 m² wall in 11 minutes

See it for yourself

Bring your drawings
We will price the wall, not the unit

STEP 01

Book a site visit

Walk the plant. Watch a sample wall go up with a 3-person crew.

STEP 02

Request your quote

Send your wall area and drawings. Get an all-in IDR per m² figure.

ACE CEM Hollow-Core Wall Panels

100 mm (7 cores) and 150 mm (4 cores), 600 mm wide
Cut 0.5 m to 12 m, Tongue & Groove Joints, C40/C45 concrete
8 × Ø6 mm steel wires

CONTACT

ACE CEM BALI

Email · form · brief

EMAIL

contact@acecembali.com

Send drawings to
start

PLANT ADDRESS

Bali, Mengui

Book a visit any
weekday

We price the wall, not the unit. **Walk the plant, then make the call!**