



BUBBLEDECK SLAB

BIAXIAL HOLLOW PRECAST CONCRETE SLAB SYSTEM




IJM IBS



At IJM IBS, we are thrilled to unveil a revolutionary marvel in construction – BubbleDeck technology. With our exceptional team and cutting-edge production capabilities, we stand at the forefront of innovation, bringing this pioneering precast solution to the market with unprecedented speed and competitiveness.

Why Choose BubbleDeck Technology from IJM IBS?

Innovation Beyond Limits

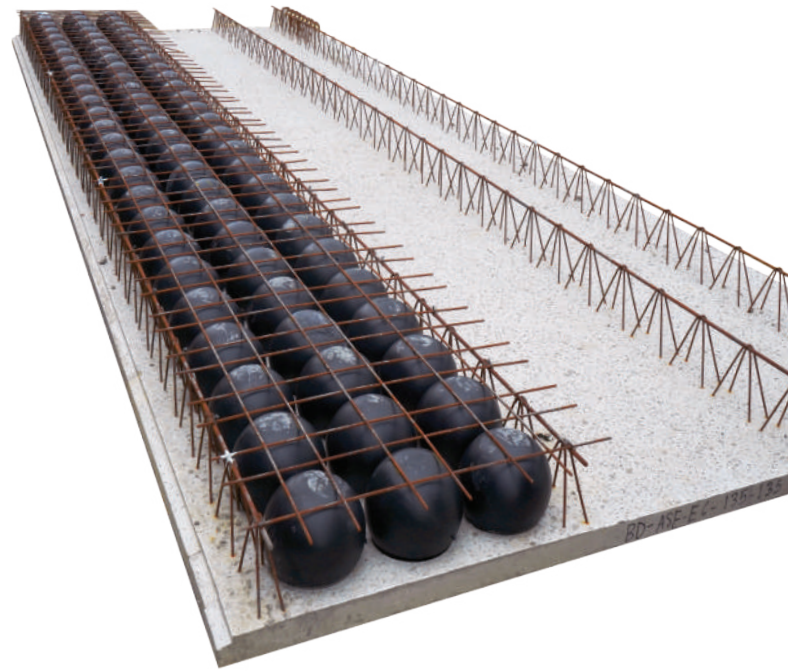
Experience construction like never before with BubbleDeck technology, redefining the standards of strength and efficiency.

Swift Market Delivery

With our streamlined production process, we bring BubbleDeck solutions to your projects faster than ever before, keeping you ahead of the competition.

Embrace Sustainable Construction

Build more with less, with BubbleDeck technology, we empower you to create remarkable structures while minimizing your environmental footprint.



Expert Craftsmanship

Our skilled team ensures each component is crafted to perfection, guaranteeing the highest quality in every project.

Competitive Advantage

Stay competitive in the market by incorporating the most advanced construction technology, setting your projects apart from the rest.

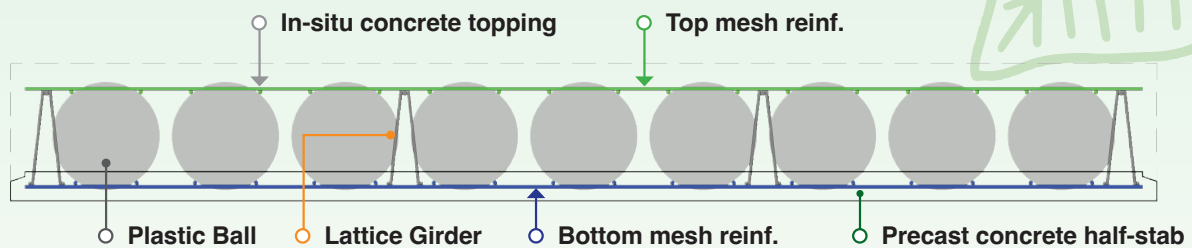


BUBBLEDECK SLAB PRODUCT RANGE

TYPE ¹	BUBBLE DIA.	SPAN (MULTIPLE BAYS)	CANTILEVER MAXIMUM LENGTH	SPAN (SINGLE BAY ROWS)	WEIGHTS OF SLAB	CONCRETE QUANTITY ²
	mm	meter	meter	meter	kN/m ²	m ³ /m ²
BD230	Ø 180	5-8	≤ 2.8	5 – 6.5	4.1	0.16
BD285	Ø 225	7-10	≤ 3.3	6 - 7.8	5.0	0.20
BD340	Ø 270	9-12	≤ 4.0	7 - 9.5	6.0	0.24
BD395	Ø 315	11-14	≤ 4.7	8 - 11.0	6.9	0.27
BD450	Ø 360	13-16	≤ 5.4	9 - 12.5	7.9	0.31

¹ For exceptionally long-span structures that demand thicker BD types as mentioned above, feasibility is subject to consultation and evaluation.

² Total concrete volume per area (half slab + in-situ concrete topping up)



Our BubbleDeck slab comes with:

- Precast concrete half-slab
- Plastic balls
- Lattice girder
- Bottom mesh reinforcement
- Top mesh reinforcement

Materials to be prepared on site:

- Loose reinforcement and other fixtures to be fixed on-site
- In-situ concrete
- Temporary props / scaffolding
- On-site perimeter formwork

Your Pathway to Sustainable Construction



IJM IBS cutting-edge products have achieved the prestigious MyHijau and SIRIM Ecolabel certification, demonstrating our exceptional sustainability and environmental credentials.

Our contributions to GreenRE and Green Building Index points further underline our dedication to fostering a greener future. By minimizing concrete usage, BubbleDeck significantly reduces the carbon emissions associated with construction. It seamlessly aligns with eco-conscious principles and sustainable goals, making a substantial contribution to a greener, healthier planet.

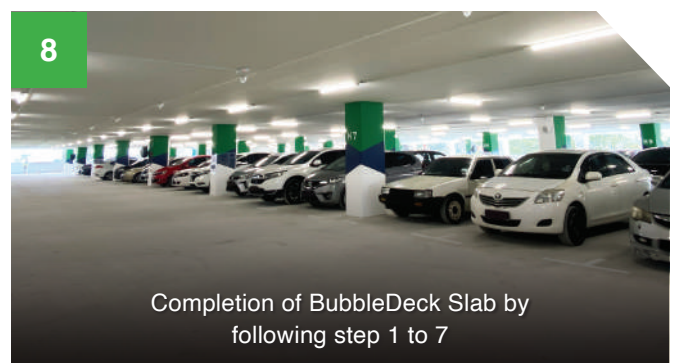
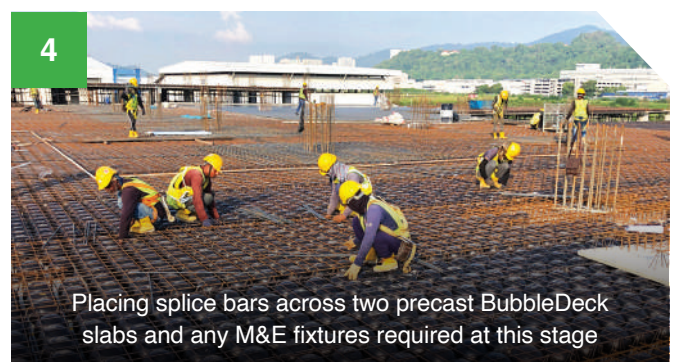
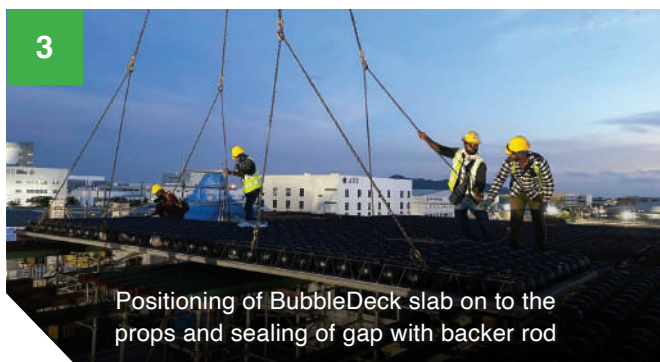
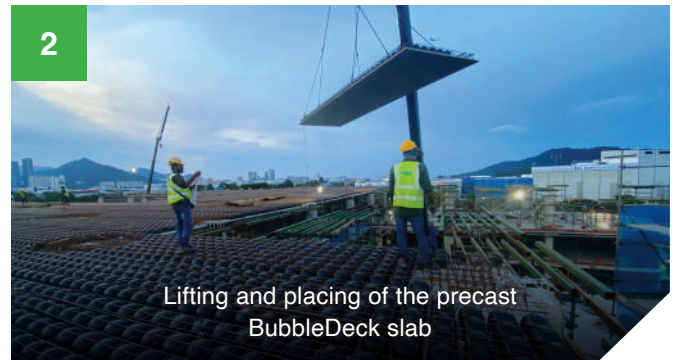
The BubbleDeck slab system stands out as it attains the highest IBS factor within the IBS Score framework, representing a significant enhancement to your project's overall value and quality.

We are certified



CONSTRUCTION MADE EASY WITH BUBBLEDECK SLAB

Guide on installation, step by step.



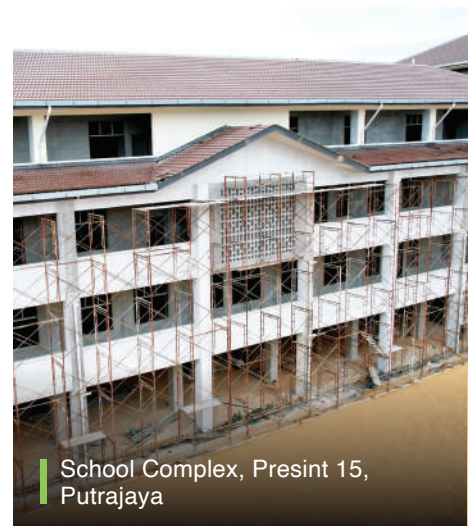
SIGNATURE PROJECTS COMPLETED WITH BUBBLEDECK SLAB



6 Storey Office and Data Center (CJ11) in Cyberjaya, Selangor



Multi-storey Office and Car Park for ASE Electronics, Bayan Lepas, Penang



School Complex, Presint 15, Putrajaya



Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang



Immigration, Customs and Quarantine Complex (ICQC), Johor Bahru–Singapore RTS Link, Johor Bahru, Johor

The Precast BubbleDeck Slab System by IJM IBS is your trusted partner for efficient, rapid construction and customized precast solutions.

ADVANTAGES OF ADOPTING BUBBLEDECK SLAB



Office & Data Center (CJ11), Cyberjaya, Selangor

Faster Construction Times

The lightweight nature of BubbleDeck slabs allows for quicker installation, with less formwork required on-site, thus reducing construction timelines and costs. This efficiency is a game-changer for projects of all scales.



Multi-storey Office and Car Park, ASE Electronics, Penang

Reduces Weight, Enhanced Strength

BubbleDeck technology reduces the overall weight of structures by up to 35%, while simultaneously increasing their load-bearing capacity. This translates into fewer materials required for construction (concrete consumption reduced by up to 40%), lighter foundations, reduced transportation costs, and a smaller carbon footprint.



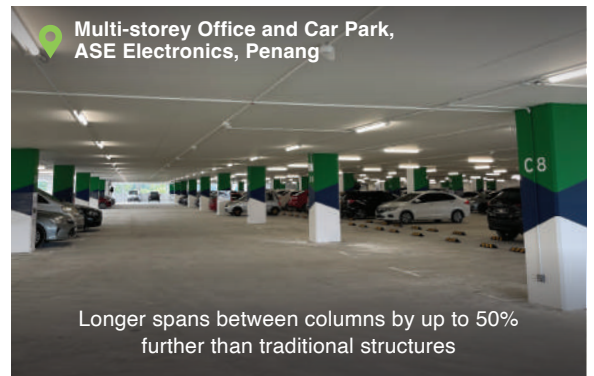
Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang

Precast BubbleDeck slabs offer a consistent, high-quality finish which minimizes on-site work and delivers a polished, attractive appearance



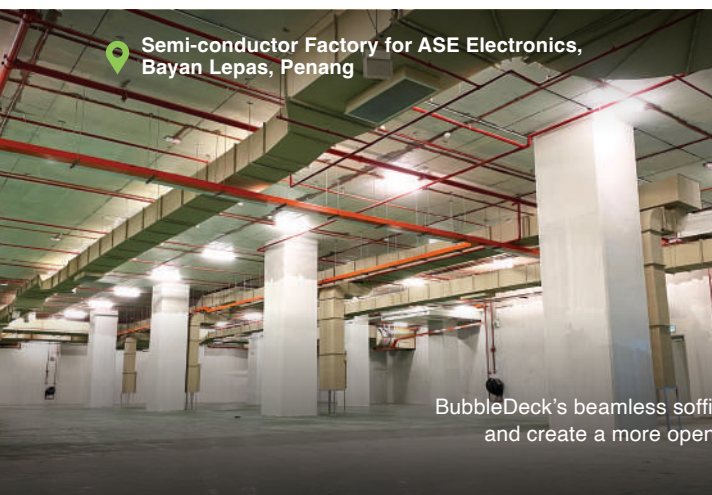
Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang

BubbleDeck's lightweight design allows for longer, more efficient cantilevers



Multi-storey Office and Car Park, ASE Electronics, Penang

Longer spans between columns by up to 50% further than traditional structures



Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang

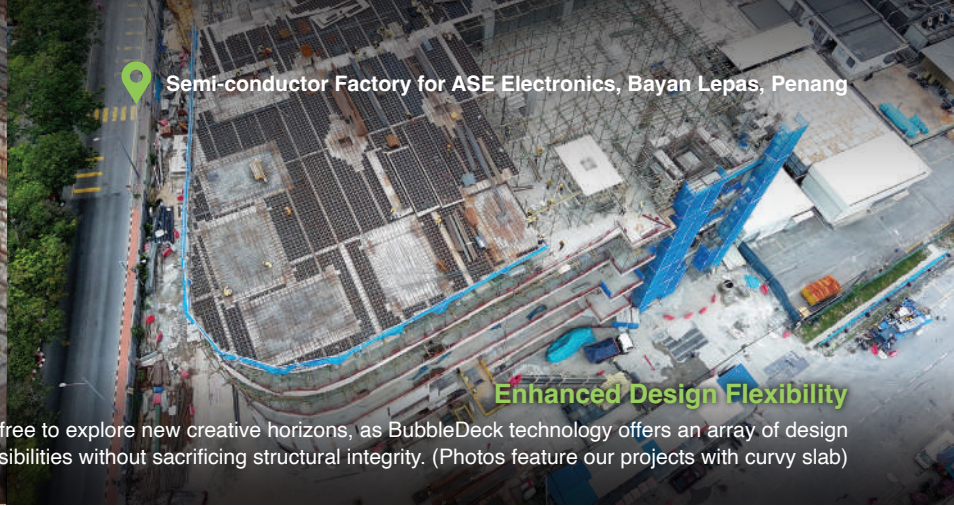
BubbleDeck's beamless soffits enhance aesthetics, simplify M&E services, and create a more open, spacious feel with increased headroom



Office & Data Center (CJ11), Cyberjaya, Selangor



Office & Data Center (CJ11), Cyberjaya, Selangor



Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang

Enhanced Design Flexibility

Architects and designers are free to explore new creative horizons, as BubbleDeck technology offers an array of design possibilities without sacrificing structural integrity. (Photos feature our projects with curvy slab)



Vincent Moran Healthcare Hub, Malta



Office & Data Center (CJ11), Cyberjaya, Selangor

Versatile Applications

BubbleDeck technology is adaptable to a wide range of construction projects, from residential buildings to bridges, commercial complexes to industrial, as well as advanced technology facilities (ATF) such as data centers and E&E manufacturing facilities. Its versatility knows no bounds.

- BubbleDeck Type = BD300
- Total BubbleDeck Area = 18,000m²
- Unfactored Dead Load = 3.5kN/m²
- Unfactored Live Load = 5kN/m² to 10kN/m²
- Typical Column Span = 8.1m x 8.1m

- BubbleDeck Type = BD340 & BD450
- Total BubbleDeck Area = 14,600m²
- Unfactored Dead Load = 2.9kN/m²
- Unfactored Live Load = 15kN/m²
- Typical Column Span = 9m x 12m



Semi-conductor Factory for ASE Electronics, Bayan Lepas, Penang

Ability to cater structures with high loadings and longer span.

- BubbleDeck Type = BD395
- Total BubbleDeck Area = 30,000m²
- Unfactored Dead Load = 2.95kN/m²
- Unfactored Live Load = Typical at 10~15kN/m², highest is 40kN/m²
- Typical Column Span = 10m x 10m

Shaping a New Era of Construction with BubbleDeck

- Design Freedom with Mass Customization
- Strong and Durable, Supporting Long Spans With Ease
- Optimized Cost And Material Resources
- Lightweight for Easy Installation and Faster Construction
- Environmentally Green And Sustainable
- Uses Recycled Materials

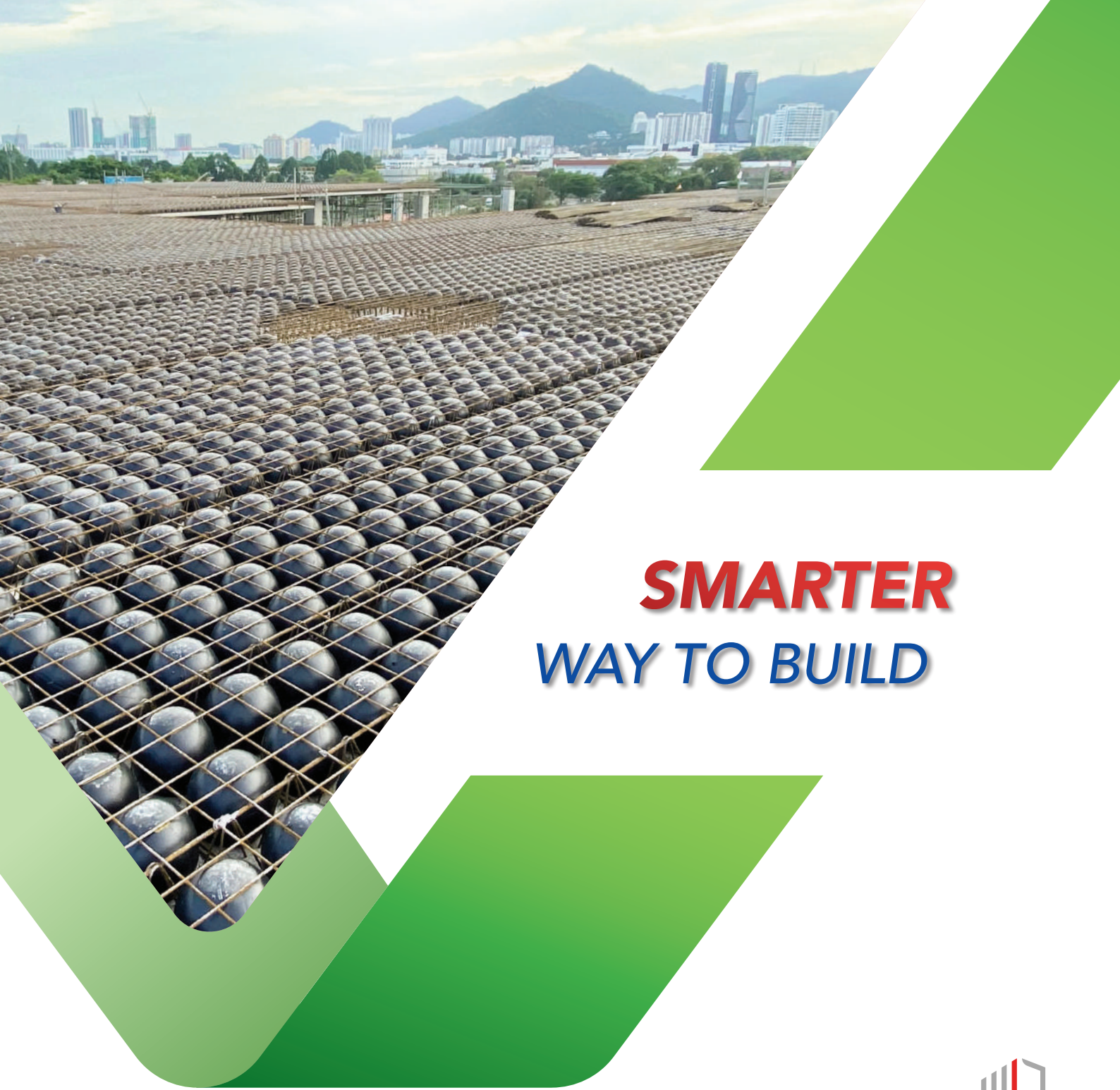
Every 5,000m² of BubbleDeck slab **save:**

1,000m³
on-site concrete

166
ready mix lorry trips

1,798
tonnes of foundation loads

278
tonnes of CO₂ (during production and delivery)



SMARTER WAY TO BUILD



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