



IMAB BLOCK

PRODUCT BROCHURE

PRECAST IMAB BLOCK WALL

IMAB is a proprietary precast concrete block system for constructing gravity retaining wall, and structure that can be deployed rapidly to counter erosion of slope, riverbank, shore and land slippage. The innovative IMAB blocks are equipped with series of functional openings to dissipate wave energy, or planting of vegetation for costal protection works.

The system is also well suited to weir structure, bund/floodwall and riverbed protection for river channelization works. These products can be used to replace conventional retaining walls such as gabions, boulder walls and stone pitching and can be used in under water situations.

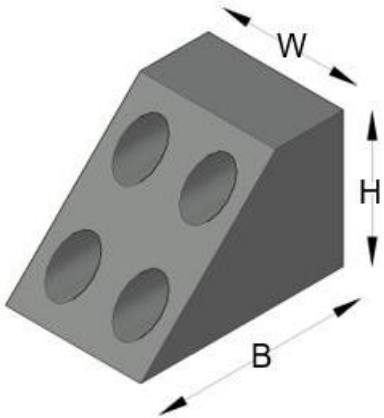


PRODUCT SPECIFICATION

The system is developed by capitalizing on modern Precast Concrete Technology to replace concrete retaining wall, gabion wall, and various conventional structures with added advantageous features, better buildability, aesthetic appearance and cost saving. Each precast concrete block weighs approximately 1.80 tonne in truncated cuboid shape, and preformed with 4 nos of circular openings. The dimensions are manufactured with the quality concrete to specification to close tolerances for ease of dry stacking on-site.

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PRODUCT TYPE	HEIGHT H (mm)	WIDTH W (mm)	BASE LENGTH (mm)	UNIT MASS PER BLOCK (tonne)
IMAB BLOCK	1000	1000	1500	1.80



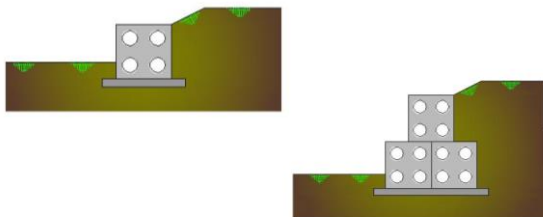
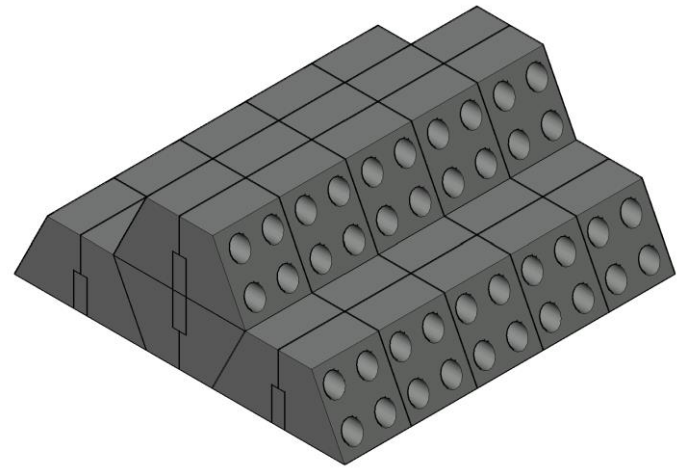
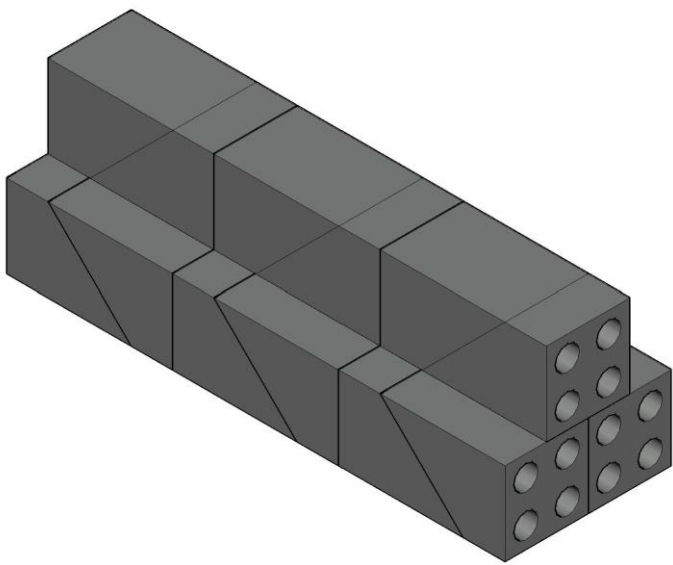
APPLICATION



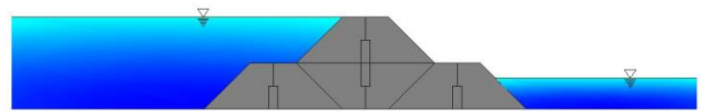
Slope Protection



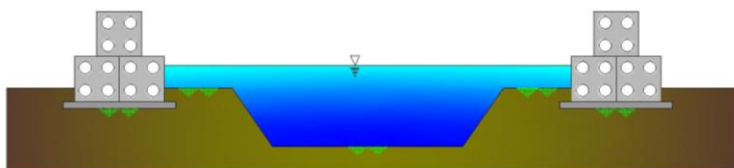
Weir Structure



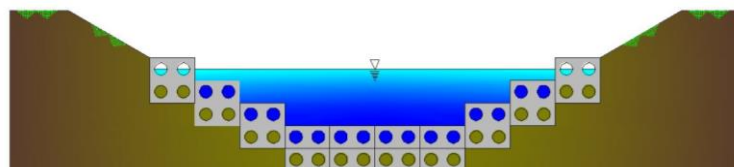
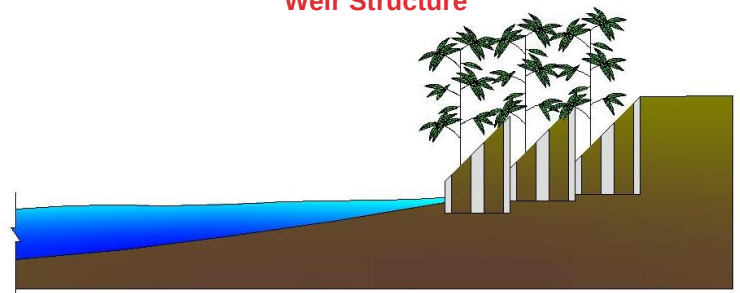
Slope protection



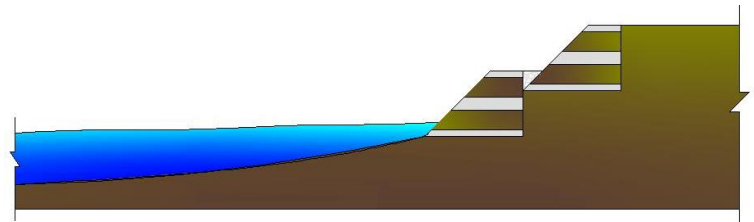
Weir Structure



Riverbank Protection/ Bund wall/ Flood Wall



Riverbed Protection



Coastal Protection



Coastal Protection



Riverbank Protection

ADVANTAGEOUS FEATURES

Beneficial Effects

All IMAB products are labour efficient, clean and time saving giving you more time in other areas of your project, leaving you with a no maintenance structure. These distinctive benefits can always be reaped and realized by all our Clients, Authorities, Developers and Contractors:



Quality Product and Maintenance Free

- Accurate dimension of product to close tolerances
- Good compaction and production control during manufacturing
- Very durable end products achieved with quality concrete
- This high rate of permeability eliminates the development of hydraulic pressure behind the wall structure.
- The system can tolerate movement and settlement without causing visual distress.

Enhanced Aesthetics

- IMAB blocks blend well naturally to environment
- Better control gives good finishes and yields aesthetic walls. Smooth finish reduces collection of stains/ or fungi



Shorter Construction Time

- Quick and easy installation process requiring no pins, no mortar with minimal labour. They simply stack together using a patented system that is easily placed with machinery.
- Less vulnerable to inclement weather
- Production commences in parallel with site work

Environmental Friendly

- Less material wastages- with dry stacked, mortarless construction
- Reduced environmental pollution through less formwork required
- Contribute towards sustainable development in construction.



Design / Specification

- Reinforced concrete design to BS8100/EC2
- Concrete grade $f_{cu}=30$ MPa
- Higher grades can be customized to specific project requirements
- A comprehensive range of combination and orientation available for diverse applications

Installation

Work Sequence:

- Site clearing, preparation of access and working platform to machinery requirements
- Excavate and preparation of base to specification, compact and trim to level
- Lift and rotate IMAB unit to the designed orientation
- Place units to sequence and position, adjust to the correct level and alignment

Manufacture

- Cement (OPC) to MS 522
- Fine/Coarse Aggregates to MS 29
- Steel bar to MS 146
- Admixture to MS 922

Rivo Builders (M) Sdn Bhd owns and maintains an ever expanding line of proprietary precast concrete products and construction technologies. Our products are protected by patents granted including several imminent patent pending. We reserve the rights to update the information regarding its varied intellectual property and associated products and patents

Collaboration With:

JPS PERLIS

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Manufactured by:



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