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M-LOCK® BRIDGE SYSTEM

Complete, cost-effective bridge system

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COST EFFECTIVE BRIDGE SOLUTION

The Rocla M-Lock® Bridge System provides a fast, simple means of bridging small to medium spans using precast, reinforced concrete components.

The system is designed for single or multispan bridges with span lengths between 7 and 15 metres. Ideal applications include rural road bridges, sub-division bridges, pedestrian bridges and utility bridges.

The M-Lock® Bridge System provides an economical and effective replacement for ageing timber bridges and combines benefits of durability and versatility with short construction times.

COST EFFECTIVE BRIDGE SOLUTION

- Rural road bridges
- Sub-division bridges
- Pedestrian bridges
- Utility bridges

MODULAR COMPONENTS

DECK
Deck planks are 1200mm wide inverted Usections with transverse end diaphragms.

They are available in the following lengths:
7m; 8m; 9m; 10m; 11m; 12m; 15m

Planks for skewed bridges (15º and 30º) are also available.

HEADSTOCKS
Precast headstocks complete with cross-fall are manufactured in multiples of 1200mm to suit standard lane widths. The headstock design accommodates either driven or rocksocketed piles.

PILES
The system is designed to incorporate a number of different piling products, principally Rocla Duraspun® Hollow Precast Piles, square RC piles or steel UC and tubular piles.

COMPLETE BRIDGE SYSTEM

HIGH QUALITY PRECAST CONCRETE

All components are manufactured under factory controlled conditions in purpose-made moulds. This reduces the

risk involved in transporting premixed concrete over long distances. Virtually no on-site wet mix is required apart from a minimal amount of grout.

DURABLE STRUCTURE

More durable than composite bridge systems such as timber/ concrete. Precast concrete also increases durability because of the strength of the highly compacted concrete used.

PURPOSE DESIGNED PRODUCT

All precast components have been designed for SM1600 live loading in accordance with the relevant structural requirements of Australian Standard Codes and accepted engineering standards and principles.

SIMPLE CONSTRUCTION

After the piles are installed, the precast concrete headstock beams and planks are bolted into place. For high traffic volume bridges, transverse post-tensioning can be used in place of plank bolts. Accessories include steel guardrail or precast barriers, precast end protection beams or approach slabs and wing walls.

NO ADDITIONAL SURFACING REQUIRED

The system is designed to eliminate the need for in-situ toppings or wear surfaces. This speeds construction and reduces long-term maintenance costs.

MINIMAL IMPACT ON WATERWAYS

For environmentally sensitive areas, construction can proceed by reaching out from waterway banks or off a previously constructed span. No need to build coffer dams or interfere with the waterway.

REDUCED CONSTRUCTION TIME

Using a Rocla M-Lock® Bridge results in a much reduced construction period compared to conventional bridges and other bridging systems. A crew of two or three can construct a bridge at the rate of one span per week. Disruption to the community and road users is minimised.

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Rocla For more information call Rocla on **131 004** or visit **www.rocla.com.au**

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