



## MEDIUM GIRDER BRIDGE

**RAMCO STOCK CODE:** 1002

### GENERAL DESCRIPTION:

The Medium Girder Bridge (MGB) is a two girder bridge with deck units fitted between the two longitudinal girders to provide a 13 feet 2 inch wide roadway. Bankset beams connect the girders at each end and ramps connect to the bankset beams to provide access. The MGB parts are fabricated from a specially developed zinc, magnesium and aluminium alloy (DGFVE 232A). This enables a lightweight, high strength bridge to be built. Most parts can be handled easily by four people. The 3 heavier parts used in limited quantities, are six-man loads. The Medium Girder Bridge is lightweight, hand built, airtransportable, parachuted into location, no plant needed to build. Easy to transport on own pallets.

### Configuration

The MGB can be built in three different configurations; they are the Single Storey, which provide Military Load Class (MLC) 70 for bridging gaps up to 29 feet (5bays). The Double Storey without link reinforcement which provide MLC 70 for up to gaps 95.8 feet (12 bays) and the Double Storey with link reinforcement which will provide an MLC of 70 up to 151.5 feet (22 bays).

### Advantages

- Lightweight – No component requires more than six people to lift or carry
- Easy to Assemble – Components have special alignment aids built into them
- Minimal Maintenance – Very little lubrication required
- Air Transportable – In either standard pallet loads or in partially assembled bridges
- Length – Maximum length is 151.5 feet
- Military Load Class (MLC) – MLC is 60 Tracked, 70 Wheeled

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### Components:

There are 7 Major components in the Medium Girder Bridge set, 4 are used in Single Storey construction and all seven are used in Double Storey construction.

COMPONENT	USES	PERSONS TO CARRY	DIMENSIONS	WEIGHT
Bankset Beams	<ul style="list-style-type: none"> <li>&gt; Keep the bridge girders properly spaced</li> <li>&gt; Provide connection for the ramp units</li> </ul>	6	13' 31/2" long 1' 93/8" wide 1' 6" high	570lbs 259kg
Top Panel	<ul style="list-style-type: none"> <li>&gt; To build the bridge girders</li> <li>&gt; 7 panel points on each panel</li> </ul>	4	6' 4" long 2' 13/8" wide 1' 9 5/8" high	385lbs 175kg
Bottom Panel	<ul style="list-style-type: none"> <li>&gt; A brace for bridge girders</li> </ul>	4	6' 5" long 2' 3" wide 7' 3/8" high	435lbs 197kg
Junction Panel	<ul style="list-style-type: none"> <li>&gt; A brace between the sloped and level part of a Double Storey bridge</li> </ul>	4	5' 3/4" high 3' 51/2" long (top) 2' 23/4" long (bottom) 2' 11/2" wide	478lbs 217kg
End Taper Panel	<ul style="list-style-type: none"> <li>&gt; A bottom brace between the junction panel and bankset beams</li> </ul>	6	13' 25/8" long 2' 4" wide 1' 6" high	600lbs 272kg
Ramp Unit (UK)	<ul style="list-style-type: none"> <li>&gt; Provides an approach to the bridge</li> <li>&gt; 7 are required at each end</li> <li>&gt; UK ramps are for single storey only</li> </ul>	4		264lbs 120kg
Ramp Unit (US)	<ul style="list-style-type: none"> <li>&gt; Provides an approach to the bridge</li> <li>&gt; 7 are required at each end</li> </ul>	6		400lbs 181kg
Deck Unit	<ul style="list-style-type: none"> <li>&gt; To fill in the gaps between girders</li> <li>&gt; 4 Deck units required per bay of bridge</li> <li>&gt; In single storey construction only ramp unit, bankset beam, top panel &amp; deck units are used.</li> </ul>	2	9' 11" long 1' 51/4" wide 6' 7/8" high	163lbs 74kg

**Price:** P.O.A

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