

HEITECH PUMPABLE CRIB







Heilech





Phone: (02) 4355 4545

Fax:(02) 4355 4515

17 Lucca Road

North Wyong NSW 2259

www.heintzmann.com

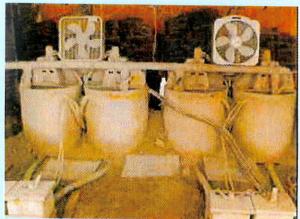
HEITECH PUMPABLE CRIB



DESCRIPTION

- HEITECH PUMPABLE CRIB'S consist of a high tensile strength textile bag as a form into which a cementitious grout is pumped in place in the mine entry.
- A typical crew consists of 7 men, 4 at the installation site and 3 men at the pumping site.

THE PUMP PACKING STATION CONSISTS OF THE FOLLOWING



2 PAIRS OF 300 LITRE MIXING TANKS WITH PADDLE ATTACHMENTS



POWER PACK



A DOUBLE ACTING RAM PUMP



SURFACE PUMP SITE





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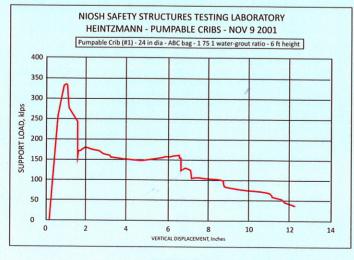
EXCELLENT FOR LONGWALL TAILGATE AND BLEEDER SUPPORTS WHERE TIMING AND MATERIAL HANDLING ARE CRITICAL

- Average installation rate of 40 to 50 pumpable cribs per shift
- 85% of final compressive strength within the first 24 hours of pumping
- Over 100 metres of entry supported per shift
- Pumpable Crib's provide full contact with mine roof and floor, which allows prestressing and eliminates the need for secondary material to establish proper roof contact

ALSO SUITED TO REMOTE AREAS THAT ARE INACCESSIBLE TO MINE HAULAGE EQUIPMENT

- Pumping distances in excess of 5 kilometres have been achieved
- Eliminates the need to hand carry material by 95%

The following graphs from Niosh Safety Structures Testing Laboratory show the results from the test of the 610mm (24") and 760mm (30") Pumpable Crib in the Niosh Roof Simulator.



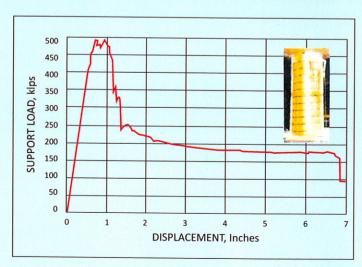


FIGURE 1

FIGURE 2

As shown in Figure 1, the 24" Pumpable Crib achieves a peak loading of approximately 155 tons and a residual load of approximately 70 tons As shown in Figure 2, the 30"Pumpable Crib achieves a peak loading of approximately 250 tons in less than 1 inch of displacement





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PUMPABLE CRIB KEY POINTS

- Better roof control
- Quick Installation
- Available in 610mm (24"), 680mm (27"), 760mm (30") as well as custom diameters
- Two component system which allows long pumping distance
- Pumping station can be used from the surface or underground
- Rapid strength gain
- Rapid setting material
- Heitech introduced the system to the American market
- Installed over 700,000 Pumpable Supports

ADDITIONAL INFORMATION AVAILABLE BY CONTACTING

Heintzmann Australia - Ron Nielsen Phone: (02) 4355 4545

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