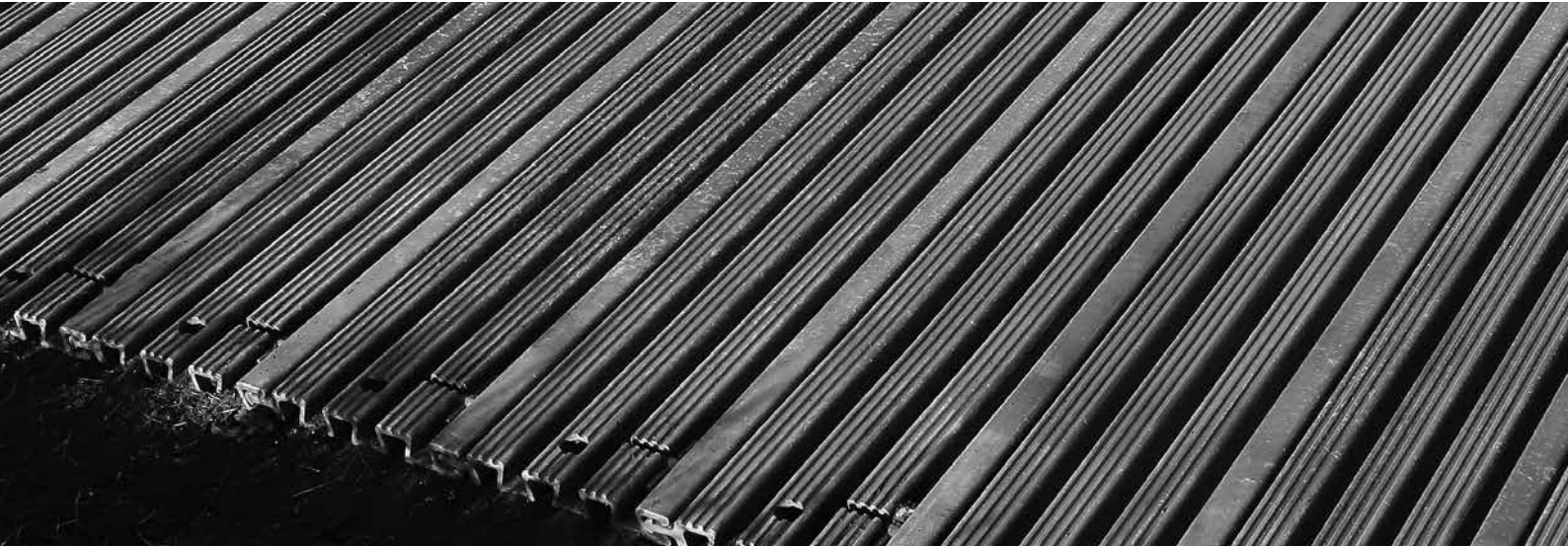


# TECHNICAL INFORMATION

## RAPID RUNWAY REPAIR (RRR)



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## RAPID RUNWAY REPAIR (RRR)

RAPID RUNWAY REPAIR (RRR) is an integral part of the Airfield Damage Repair (ADR) process, that is a further part of the strategic principle of 'Survive to Operate', developed by the UK Armed Forces and understood to be one of the most professional in NATO. Following an enemy attack, it is essential that flying operations can be resumed quickly. RAPID RUNWAY REPAIR (RRR) enables the engineer division to reconstruct essential areas of the airfield quickly to enable immediate use.

Bomb Damage Repair Mats (BDRM) are a key component of the RAPID RUNWAY REPAIR (RRR) system. With indefinite storage time and low maintenance, BDRM can be re-purposed when not required for helicopter landing pads, aircraft hard standing, temporary taxiways and recovery areas when aircraft have overshot a runway.

## CAPABILITIES

- ▶ BDRM cover up refilled craters to enable runways to be used efficiently after an enemy attack;
- ▶ BDRM technology is clearer for aircraft categorised as;
  - ▶ Load Classification Number (LCN) 45
  - ▶ Load classification Group (LCG) IV
- ▶ BDRM can also be used as a Helicopter Landing Mat.

## FEATURES

- ▶ BDRM have a choice of end fairing panel designs;
- ▶ BDRM modular system allows for parts to be easily replaced if necessary;
- ▶ BDRM technology is reusable for multiple operations and can be used in any environment;
- ▶ Can withstand temperatures ranging from +40°F to - 40°F.
- ▶ Can be mounted on a trailer for rapid deployment by hand.
- ▶ The BDRM system can easily be split to form two Bomb Damage Repair Patches (BDRP) for use on similar craters.
- ▶ BDRM is 95% recyclable and have enduring value at the end of their useful life.

## RAPID RUNWAY REPAIR KITS COMPRISE OF FIVE ELEMENTS:

- ▶ BOMB DAMAGE REPAIR MATS (BDRM) - M150 Trackway® interlocked to create an area measuring 52ft x 72ft.
- ▶ BOMB DAMAGE REPAIR MAT TRAILER - a specialist trailer designed to transport and position the BDRM.
- ▶ INSTALLATION KITS - tensioning kits, bolt down kits, side fairing panel kits, end fairing panel kits to enable the BRDM to be correctly installed.
- ▶ DYNAMIC COMPACTOR - compacts the aggregate used to refill the craters, to ensure a solid foundation for the BDRM.
- ▶ SCREED BEAM - levels the aggregate used to refill the craters, provided with a custom trailer for transportation.

## TRACKWAY® M150 OPTIONS



**M150**

- ▶ Width: 15ft
- ▶ Effective Length: 8.35in as standard
- ▶ Overall Length: 9in
- ▶ Height: 1.25in
- ▶ Weight: 73lbs
- ▶ Effective Area: 10.3 sqft
- ▶ Total weight:
- ▶ Area weight: 7lb/sqft

### Panel size:

- ▶ Full panel = (W) 15ft x (H) 1.25in x (L) 9in
- ▶ Half panel = (W) 7ft 5in x (H) 1.25in x (L) 9in

### Panel weight:

- ▶ Full panel = 73lbs
- ▶ Half panel = 36.5lbs

### No of panels:

- ▶ Full panel = 312
- ▶ Half panel = 104

Aluminium with male and female t-slot forming an articulated joint. Powder coated finish or anodised to a grey finish with increased corrosion resistance. M150 Panels are anodized for durability, protection from corrosion and glare reduction.

## 8 STAGE PROCESS



1. Clean debris



2. Fill crater



3. Filling in crater



4. Dynamic compaction



5. Screed



6. BDRM unroll mat



7. Tension mat



8. Drill and bolt

## BDRM TRAILER

BDRM trailer is a two axle drawbar trailer specifically designed for the carriage, loading and unloading of the BDRM.

- ▶ The BDRM trailer smoothly transports BDRM to the identified crater;
- ▶ BDRM trailer instantly unloads BDRM which is ready to roll out;
- ▶ The BDRM trailer also stores spare BDRM ready for future deployment.

## DIMENSIONS

- ▶ Length: 47ft 6in
- ▶ Height: 7ft 5in
- ▶ Width: 8ft 2in
- ▶ Weight without BDRM: 17, 637lbs
- ▶ Height with BDRM: 10ft
- ▶ Weight with BDRM: 46, 297lbs
- ▶ NATO Coupling: 3in diameter

## SCREED BEAM

The beam consists of 1 to 4 sections, which are bolted together end to end. Two skids are then bolted to the ends of the assembled beam. The screed beam is transported by a separate trailer.

## DIMENSIONS

- ▶ Length: 19ft 69in
- ▶ Width: 4ft 26in
- ▶ Weight fully assembled: 8, 818lbs
- ▶ Combined max length: 78ft 74in
- ▶ Height: 2ft 53in

## RRR OTHER EQUIPMENT

Additional equipment can be supplied with the RRR;

- ▶ Trailer mounted generators
- ▶ Screed beam and trailers
- ▶ Self propelled vibrating rollers
- ▶ Mobile lighting towers
- ▶ De-watering pumps
- ▶ Demolition buckets
- ▶ Heavy wheeled tractors
- ▶ Dynamic compactors
- ▶ Pavement sweepers



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