



RAMPS



MUDR™ PD



**ENGINEERED
SOLUTION
EXCELLENCE //**

RAMPS

BANAIR® range of **RAMPS** consists of multiple different capabilities in varying footprints: adjustable height, modular designs, air-pallet transportable.

All systems designed, engineered and manufactured with modern military requirements in mind.



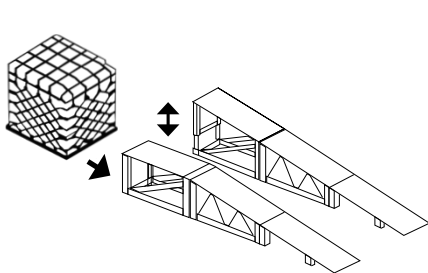
MUDR™RR



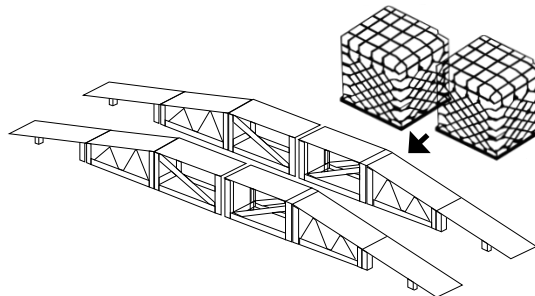
MUDR™



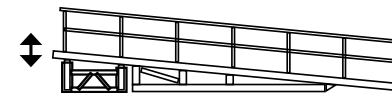
MUDR™LR



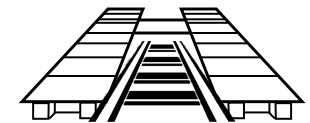
MUDR™-PD
PAGES 05-09



MUDR™
PAGES 11-16



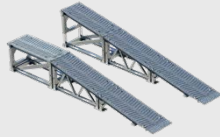
MUDR™-LR
PAGES 17-22



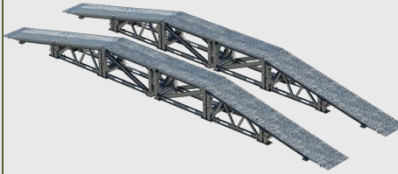
MUDR™-RR
PAGES 23-28

RAMPS

MUDR-PD50 MUDR-PD90



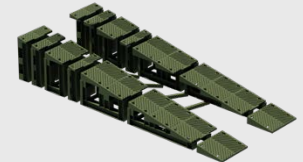
MUDR



MUDR-LR*



MUDR-RR



PRIMARY USE

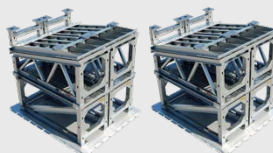
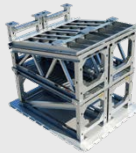
Fast deployable adjustable height loading, unloading, washing and inspection capability in a compact folding air pallet capable footprint.

Deployable retrograde washing inspection & temporary maintenance capability for remote & garrison locations.

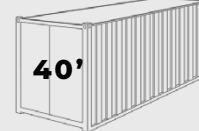
Ideal for garrison / medium to long term maintenance. Installed together in one place. *Europe ONLY

Modular Tactical Ramp for use on both Rail & Yard. Dual rail gauge (Narrow & Broad compatible).

463L DEPLOYED CAPABLE



CONNEX DEPLOYED CAPABLE



ADJUSTABLE HEIGHT

42" to 58" (2" inc)

42"

42" to 58" (2" inc)

29",43",45",51",54",58"

LOAD CAPACITY

50 / 90 TON

90 TON

90 TON

90 TON

RAMP LENGTH (1 KIT)

22'-8"

45'-4"

30'

22'-10"

RAMP TRACK WIDTH

3'-1" (46")

3'-1"

5'

3'-8" (46")

FORKLIFT MOVEABLE



RAMP WEIGHT

HEAVIEST SECTION: 610kgs / 1342lbs
TOTAL RAMP: 2830kgs / 6226lbs

HEAVIEST SECTION: 610kgs / 1342lbs
TOTAL RAMP: 5660kgs / 12452lbs

HEAVIEST SECTION:
TOTAL RAMP:

HEAVIEST SECTION:
TOTAL RAMP:

USE ON RAILS



RAIL CROSSING



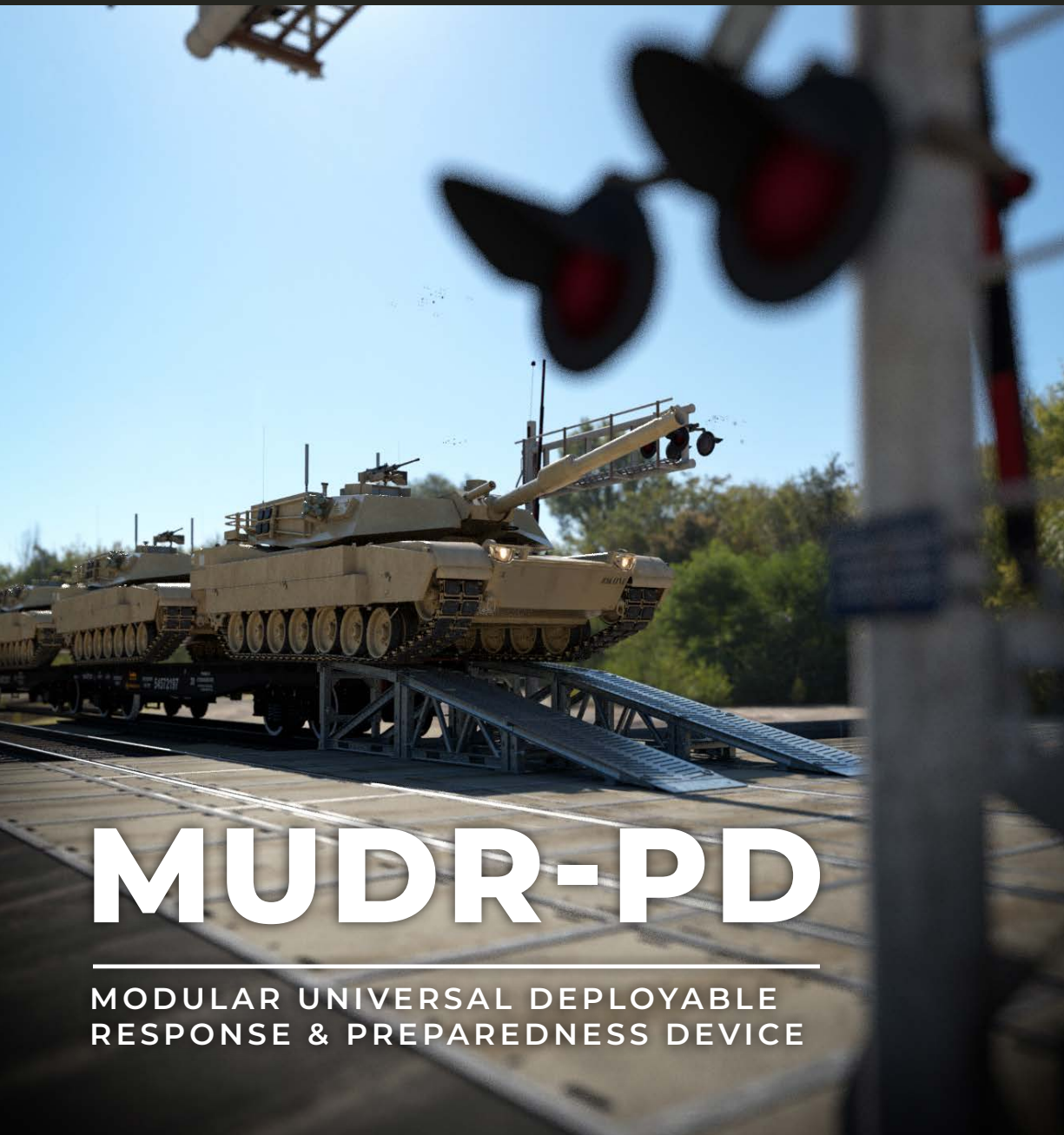
ASSEMBLY TIME

10 MINS

10 MINS

30 MINS

10 MINS

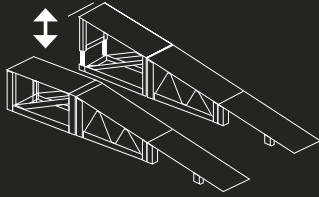


MUDR-PD

MODULAR UNIVERSAL DEPLOYABLE
RESPONSE & PREPAREDNESS DEVICE



MUDR-PD



Fast deployable loading, unloading, washing & inspection capability in a compact folding air pallet capable footprint: the MUDRPD supports military security teams wherever & whenever they may be operating, in often austere, unpredictable and expeditionary environments.

MUDR-PD50 - 50 SHORT TON CAPACITY
MUDR-PD90 - 90 SHORT TON CAPACITY

**50/90 TON
CAPACITY**

**DEPLOYS IN
ONE 463L**

**FORKLIFT
MOVEABLE**

**ADJUSTABLE
HEIGHT FROM
42IN - 58IN**



MODULAR UNIVERSAL DEPLOYABLE RESPONSE & PREPAREDNESS DEVICE

ASSEMBLE IN
10 MINS

The uniquely portable folding device provides a standardized means to handle a variety of wheeled equipment, along with a heavy-duty and safe elevated platform to perform routine and emergency maintenance away from dedicated maintenance facilities.

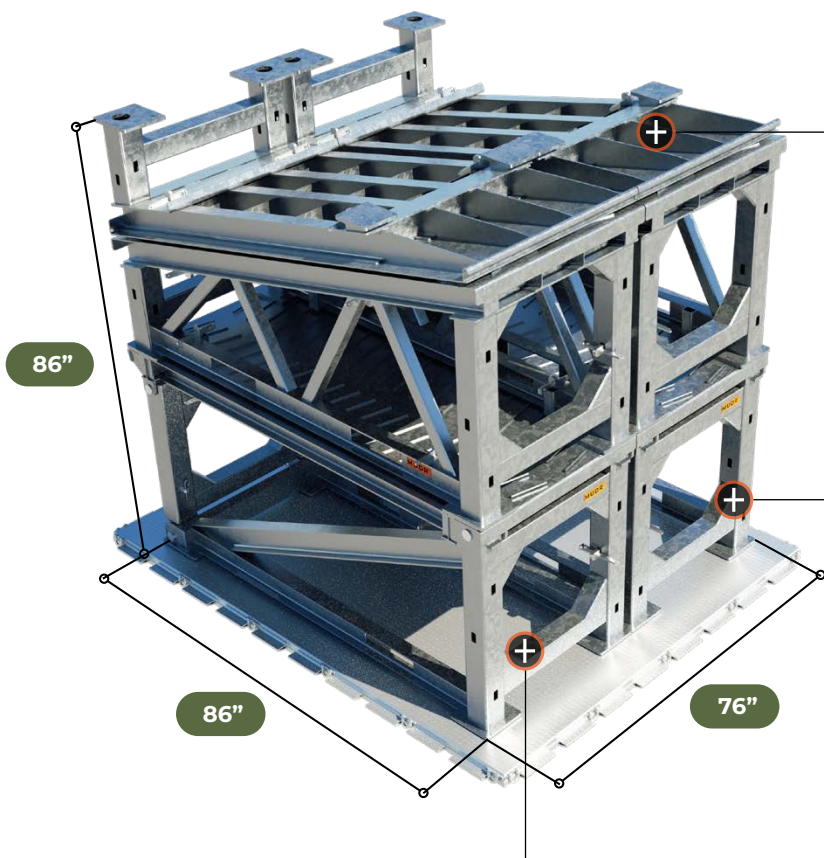
The load certified MUDR-PD is the answer to improvised solutions in expeditionary environments and as such it will increase personnel safety and reduce damage to government property.

MUDR-PD: Versatile, agile & built for a lifetime of demanding mission critical service



463L KIT: 2830kgs / 6226lbs

MUDR-PD



463L KIT INCLUDES:

- 4 INCLINED SECTIONS ON TOP (22" x2) + (42" x2)
- 2 ADJUSTABLE FLAT PLATFORM SECTIONS ON BOTTOM (42" TO 58")
- **OPTIONAL EXTRA:**
HCU-6/E 463L PALLET (NETTING INCLUDED)

FIXED 22" PLATFORM PAIR

EACH SECTION: 325kgs / 715lbs
PAIR: 650kgs / 1430lbs



FIXED 42" PLATFORM PAIR

EACH SECTION: 480kgs / 1056lbs
PAIR: 960kgs / 2112lbs



ADJUSTABLE PLATFORM PAIR

EACH SECTION: 610kgs / 1342lbs
PAIR: 1220kgs / 2684lbs



CONNEX CAPABILITY:

■ TRANSPORT SUMMARY FOR MUDR-PD KITS:

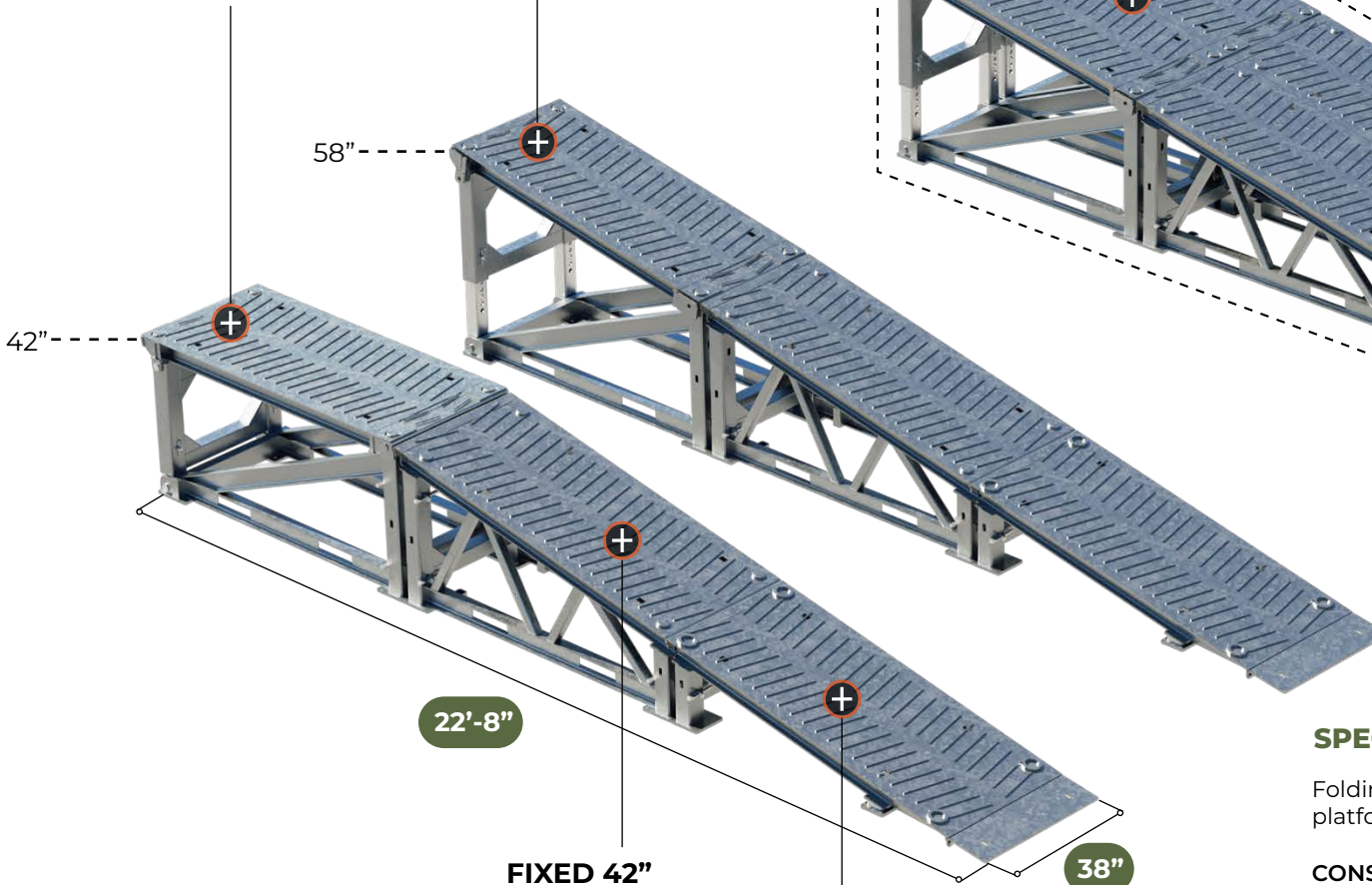
- 463L PALLET = 1 KIT
- BICON CONTAINER = 1 KIT
- 20FT CONTAINER = 3 KITS

463L KIT IN OPERATION

MUDR-PD

ADJUSTABLE PLATFORM PAIR

Adjust to 42", 44", 46", 48", 50",
52", 54", 56", 58" Loading Heights

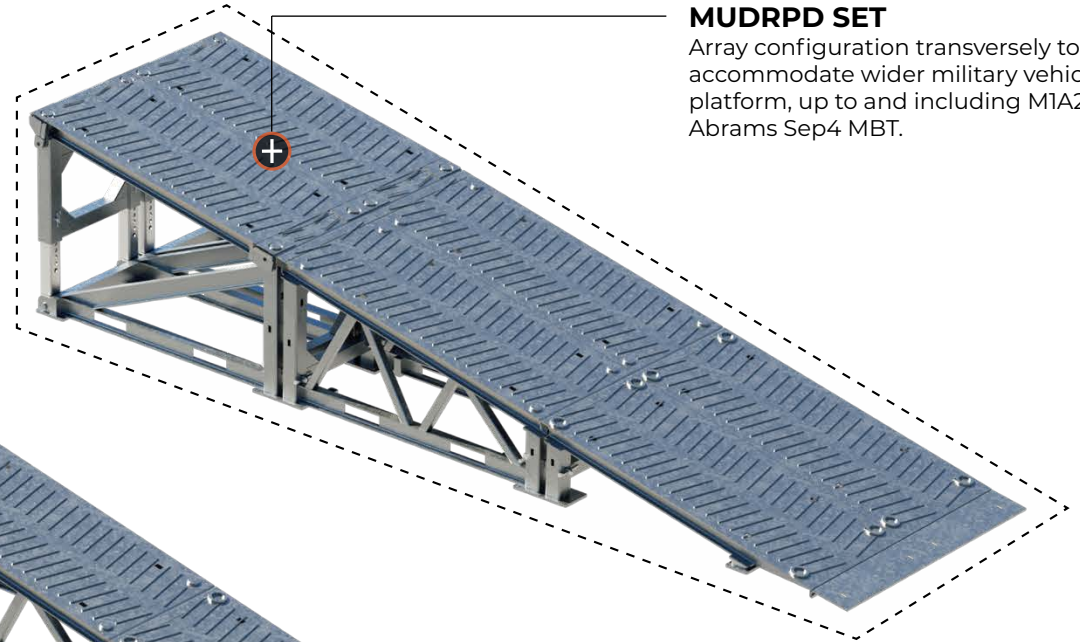


**FIXED 42"
PLATFORM PAIR**

**FIXED 22"
PLATFORM PAIR**

MUDRPD SET

Array configuration transversely to
accommodate wider military vehicle
platform, up to and including M1A2
Abrams Sep4 MBT.



SPECIFICATION

Folding design for optimized movement via multiple
platforms (**463L, CONNEX**)

CONSTRUCTION: Structural Steel Sections and Plate, All
steel is minimum S355 grade, non-alloy European standard
(EN 10025), or ASTM A572 Grade 50 equivalent.

FINISH: Hot Dip Galvanized Conforms to EN ISO 1461,
ASTM A123 standards for 85 micron minimum thickness

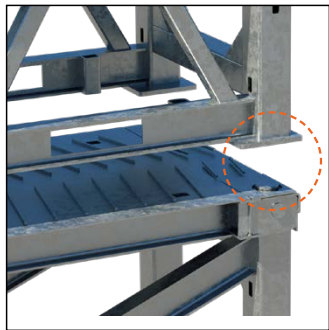
- 5 year manufacturer's limited warranty

■ MUDR-PD50 - 50 SHORT TON CAPACITY
MUDR-PD90 - 90 SHORT TON CAPACITY

FEATURES

DIMENSIONAL INFORMATION

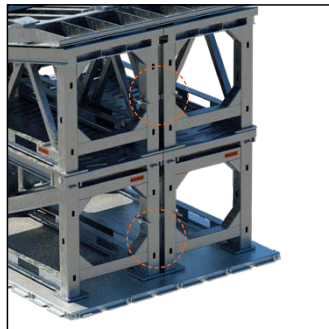
MUDR-PD



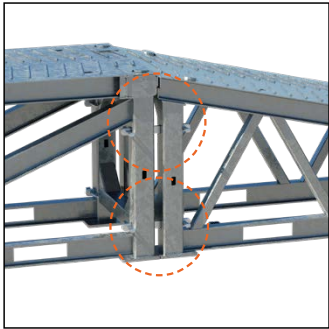
STACKING CONNECTIONS
From 42in to 58in loading heights



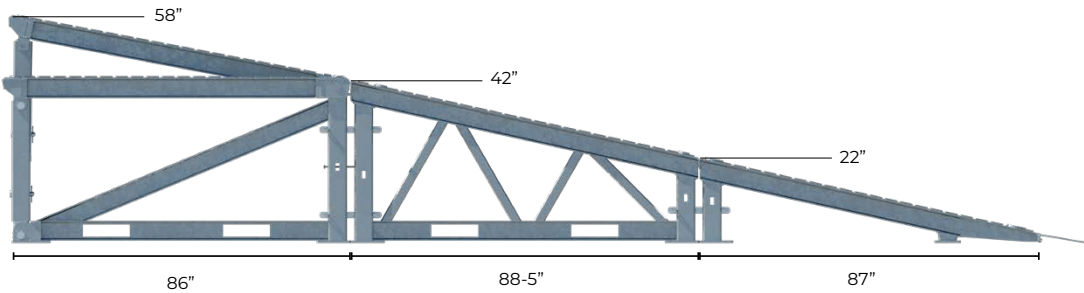
ADJUSTABLE PLATFORM
Adjust from 42" to 58"
Loading Height with pin



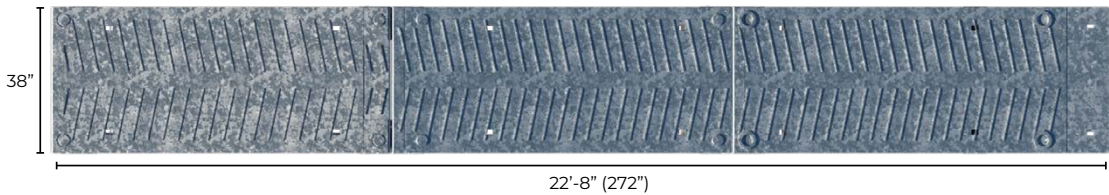
CONNECTING PIN
Same pin used for securing in transit & in use



SIDE VIEW



TOP VIEW

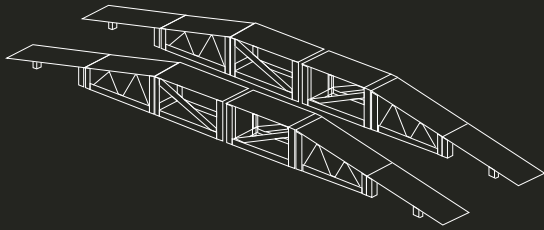


END VIEW





MUDR™

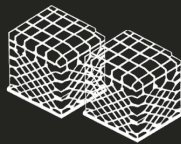


Fast deployable loading, unloading, washing and inspection capability in a compact footprint: ideal for retrograde washing, inspection & temporary maintenance capability in remote & garrison locations. Easily extendable in length

**90 TON
CAPACITY**



**DEPLOYS IN
TWO 463L**



**FORKLIFT
MOVEABLE**



**HEIGHT
42IN**



M U D R R A M P

The load certified MUDR is the answer to improvised solutions in expeditionary environments and as such it will increase personnel safety and reduce damage to government property.

MUDR: Versatile, agile & built for a lifetime of demanding mission critical service

ASSEMBLE IN
10 MINS

RETROGRADE
WASHING

TEMPORARY
MAINTENANCE



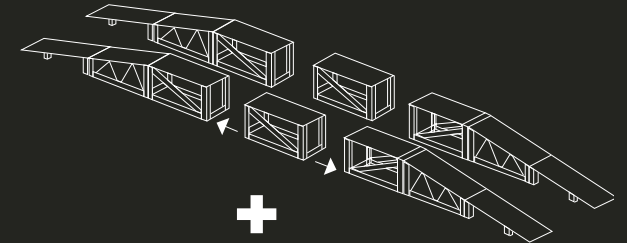
M88 RECOVERY VEHICLE
MAINTENANCE

EASILY EXTEND LENGTH OF SYSTEM

/// MUDR™ KITS



ADD FIXED 42" PLATFORM PAIRS
TO REACH DESIRED LENGTH

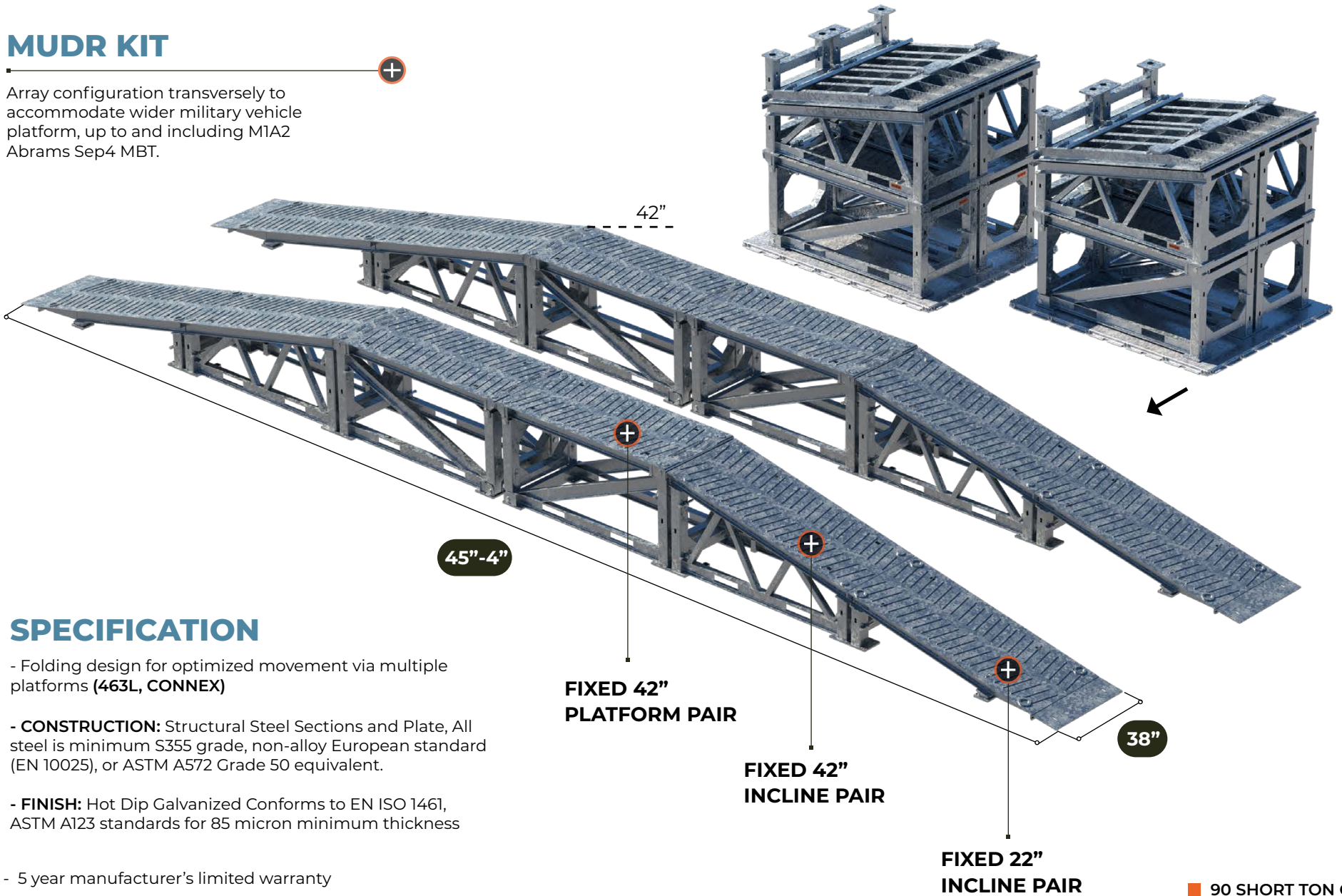


DEPLOYMENT KITS

For more information on the range of
MUDR kits and the required system
length for your needs
Contact sales@ban-air.com

MUDR KIT

Array configuration transversely to accommodate wider military vehicle platform, up to and including M1A2 Abrams Sep4 MBT.



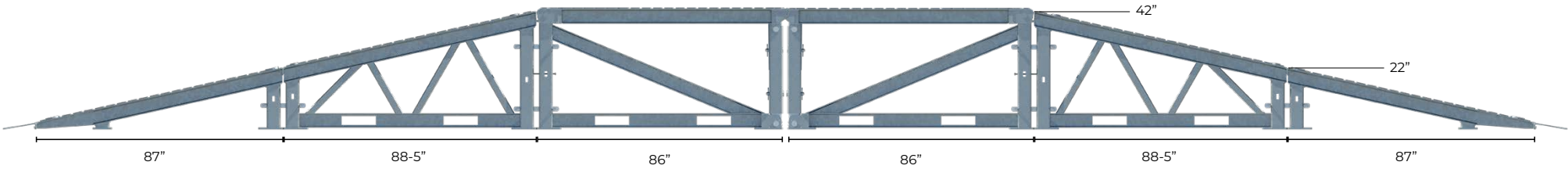
SPECIFICATION

- Folding design for optimized movement via multiple platforms (**463L, CONNEX**)
- **CONSTRUCTION:** Structural Steel Sections and Plate, All steel is minimum S355 grade, non-alloy European standard (EN 10025), or ASTM A572 Grade 50 equivalent.
- **FINISH:** Hot Dip Galvanized Conforms to EN ISO 1461, ASTM A123 standards for 85 micron minimum thickness
- 5 year manufacturer's limited warranty

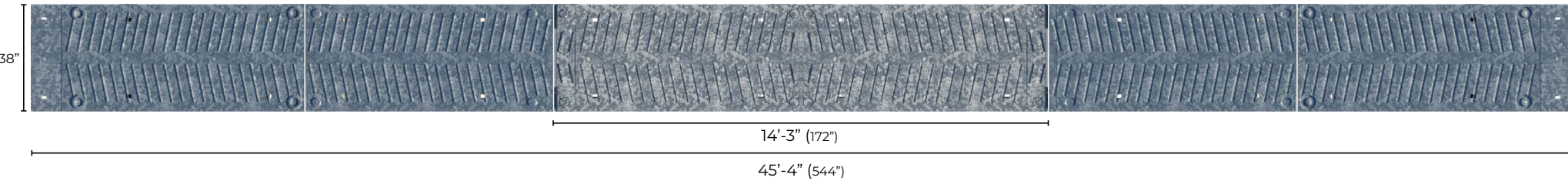
90 SHORT TON CAPACITY

DIMENSIONAL INFORMATION

SIDE VIEW



TOP VIEW



END VIEW

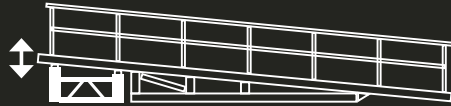




MUDR-LR

MODULAR UNIVERSAL DEPLOYABLE
RESPONSE LOADING RAMP

MUDR-LR*



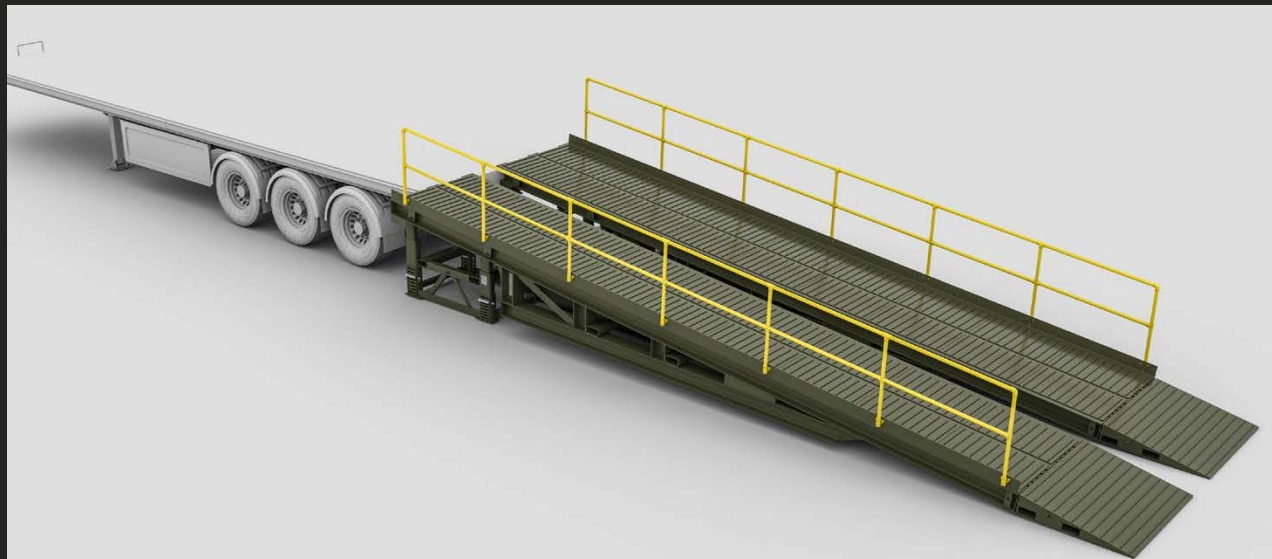
Ideal for garrison / medium to long term maintenance. Installed together in one place.
*Europe ONLY

**90 TON
CAPACITY**

**ADJUSTABLE
HEIGHT FROM
42IN - 58IN**

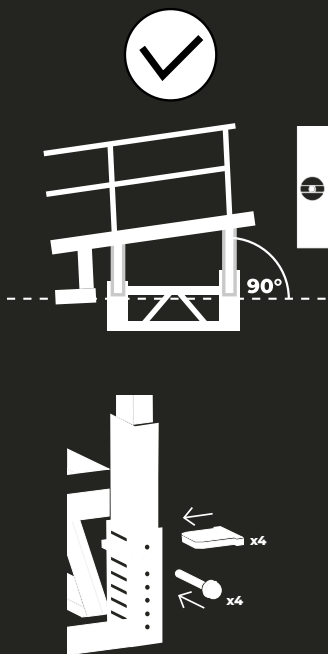
**FORKLIFT
MOVEABLE**

**WIDE TRACK
5' WIDTH**



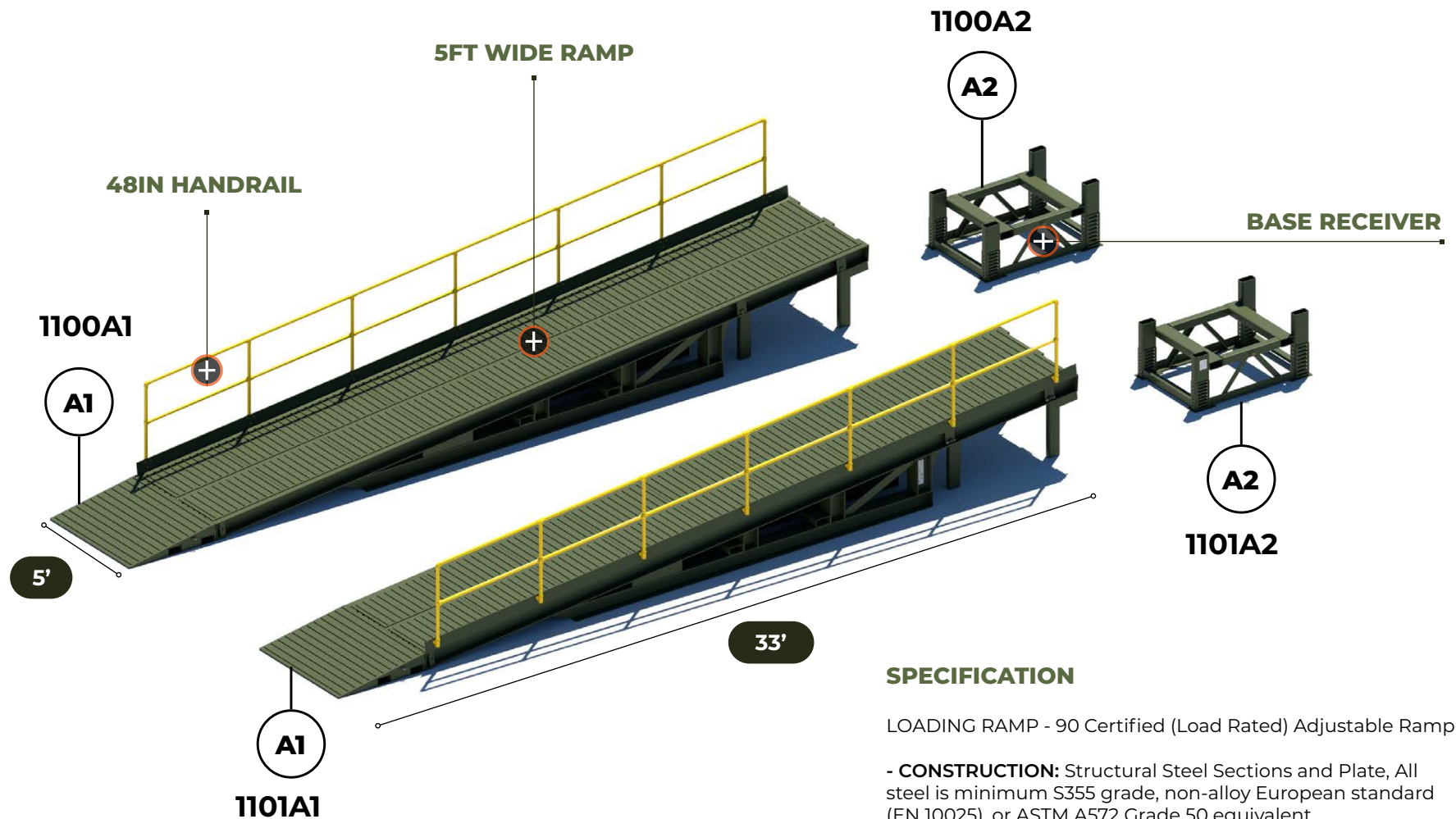
LOADING RAMP

Ideal for level surfaces loading / unloading to trailers / docks. 5ft wide track for personnel



ASSEMBLE IN
30 MINS





SPECIFICATION

LOADING RAMP - 90 Certified (Load Rated) Adjustable Ramp

- **CONSTRUCTION:** Structural Steel Sections and Plate, All steel is minimum S355 grade, non-alloy European standard (EN 10025), or ASTM A572 Grade 50 equivalent.

30ft (Length). Handrails either side at 48in Height

- **FINISH:** All Heavy Duty Epoxy Paint Finish (Ramp Olive) (Handrails Yellow)

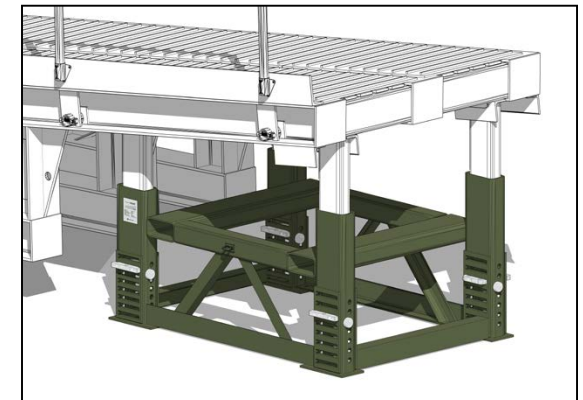
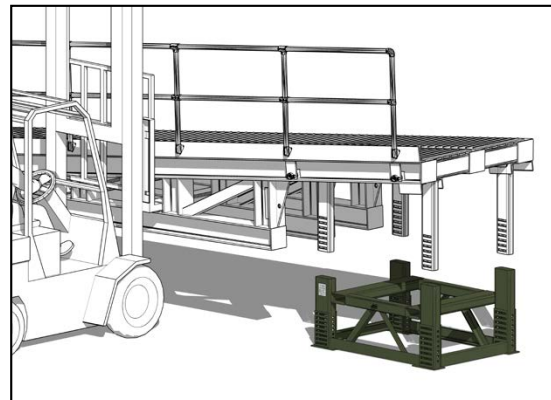
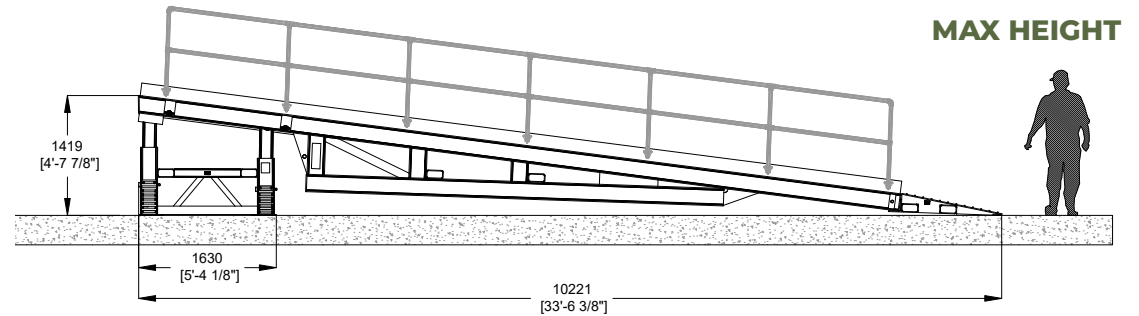
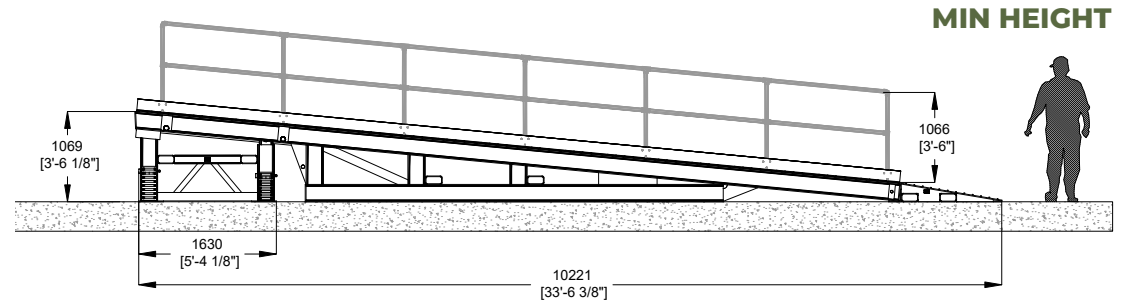


ADJUSTABLE HEIGHT

1. LOWER TO DESIRED HEIGHT POSITION.
42IN TO 58IN - EVERY 2IN INCREMENTS
(42",44",46",48",50",52",54",56",58")

2. ONCE POSITIONED ENSURE ALL SUPPORT PLATES & PINS ARE FULLY ENGAGED AND SECURED IN POSITION

3.ALWAYS POSITION PIN UNDER SUPPORT PLATE



U.S. PATENT PENDING

MUDR-RR

MODULAR UNIVERSAL DEPLOYABLE
RESPONSE RAIL RAMP

MUDR-RR™



Capable of supporting M1A2 v3 in rail movement (93.5 short tonne). Consists of modules connected to each other to form an assembly. Allows for the swarming of ARMOR anywhere. Works on both standard and broad gauge rails

**90 TON
CAPACITY**



**ADJUSTABLE
MODULES FROM
29", 43", 45", 51", 54", 58"**



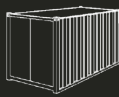
**FORKLIFT
MOVEABLE**



**USE ON
RAIL &
YARD**



**DEPLOYS IN
ONE 20FT
CONNEX**



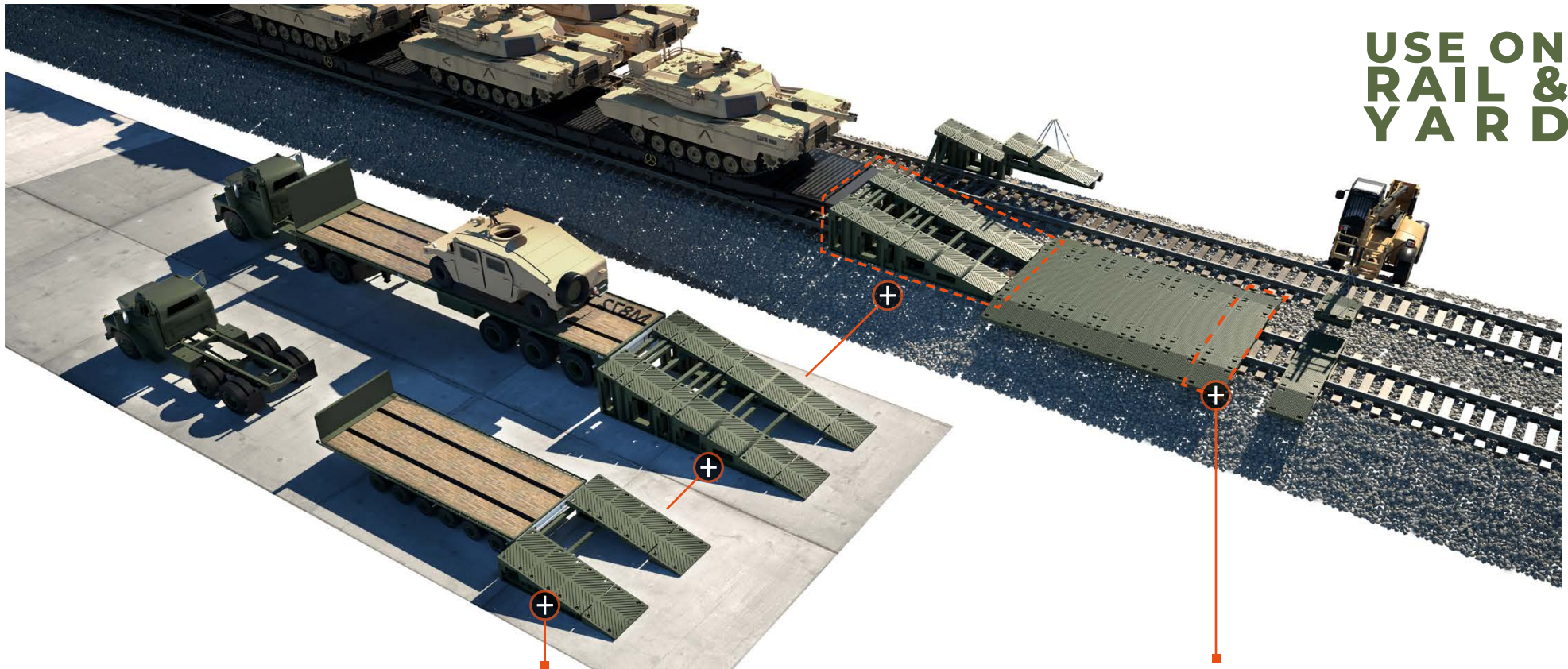
**2 PART
SYSTEM**



RAIL RAMP



RAIL PROTECTOR MAT



RAIL RAMP

- Capable of supporting M1A2 v3 in rail movement (93.5 short tonne)
- Approximately max 7m (22'-10") x 3.54m (11'-6") x 1.47m (4'-8") (L x W x H)
- Consists of modules connected to each other to form an assembly
- Functions both at a level crossing, yards, and at a remote rail track locations
- Stacks/nests in the disassembled state to allow for efficient shipping via ISO shipping containers / Military truck / Rail car
- Designed for assembly by standard available lifting equipment, e.g. 4K forklift, 10K Atlas, crane, or block and tackle
- Works on level or unprepared ground and must be able to accommodate any slope via self-levelling design that is automatic
- Includes integrated lashing points for sections to be tethered together
- Works on both standard and broad gauge rails

RAIL PROTECTOR MAT

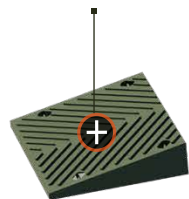
- 5.5m (18') wide with 1m rail cover length
- Modular in scope in 1m length increments, such that a mat of 2m to 12m+ (39') long may be created from its sub-assemblies
- Capable of supporting M1A2 v3 in rail movement (93.5 short tonne)
- NO CONTACT WITH RAIL TRACKS
- Protects against damage during loading or offloading via the ramp assembly
- Multiple sections interlock to create longer mats as required.
- Complete with all necessary securing hardware.

DEPLOYS IN ONE 20FT CONNEX

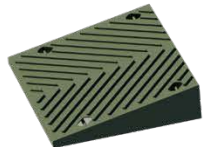
Each module has no individual dimension longer than 2500mm (8'-2") & width 1180mm (3'-8") & weighs more than 4000lbs



Non-slip surface



Works with rail cars and transport trailers of both US and EU standard design, and with both standard and broad gauge rail systems



29"

Contains structural slinging points integral to the design, not via mounted hardware, with such slinging points balanced for level lifting of each module Includes integrated lashing points

HEIGHTS

29" (736mm)
43" (1080mm)
45" (1143mm)
51" (1300mm)
54" (1372mm)
58" (1450mm)

Loading low-height trailers
US Rail car height from top of rail

European Rail car (SAMMS 709 / 710 carriages)
height from top of rail / M872 TRAILER



42"

US RAIL

44"

51"

54"

58"

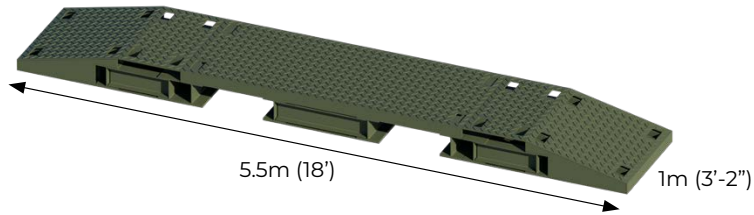
EU RAIL

Connects to other modules in a structural manner without need for additional hardware or tools

DEPLOYS IN 3'2" X 18' SECTIONS

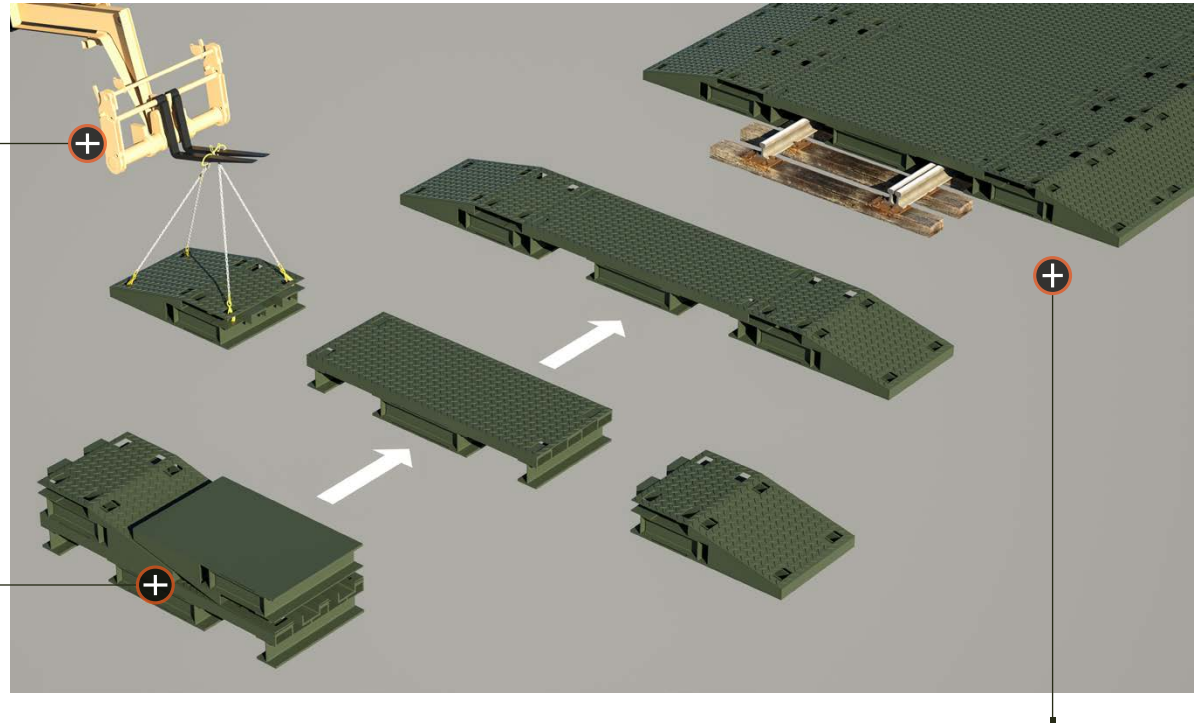
Made of 3 sections with overall width coverage of 5.5m (18')

Assembles into position by a series of lifts via integral slinging points



Modular in scope in 1m (3'-2") length increments, such that a mat of 12m+ (39') long may be created from its sub-assemblies

NO TOOL ASSEMBLY // SECTIONS LIFTED SEPARATELY OR IN PAIRS



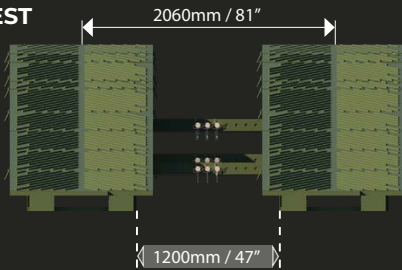
RPM1M works on both rail gauges, standard 1435mm / 56" and broad 1520mm / 60" "Russian"

Protects train tracks without directly touching - no permission to use required.

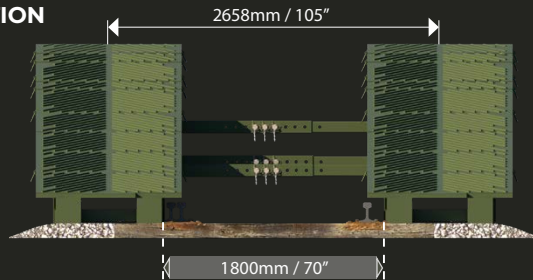


WIDTH OPTIONS

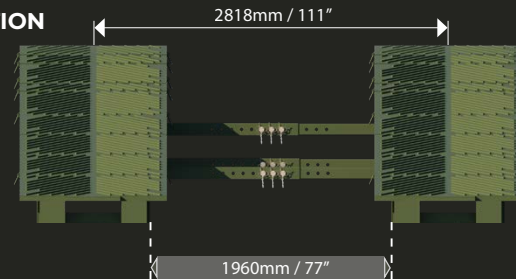
NARROWEST POSITION



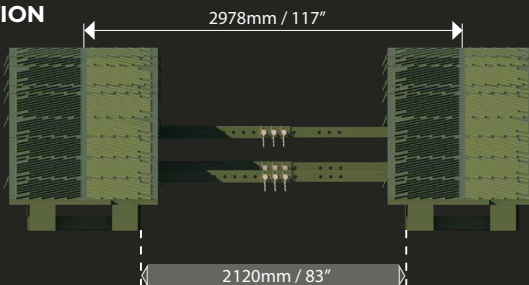
RAIL GAUGE POSITION



MID POSITION



WIDEST POSITION

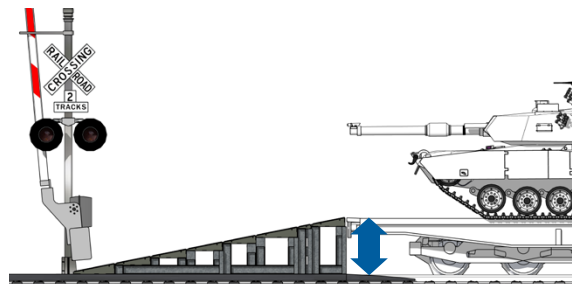


MUDR-RR



HEIGHT OPTIONS

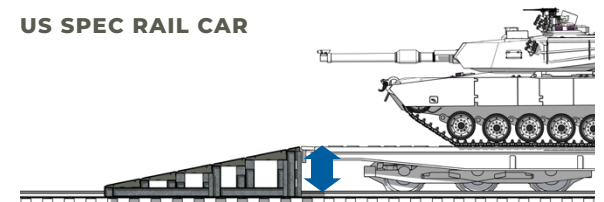
RAIL CROSSING



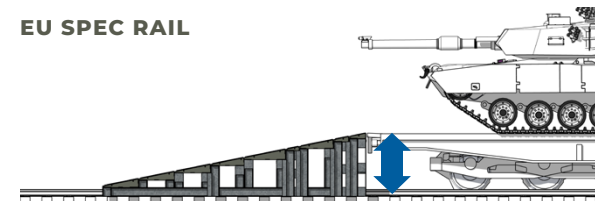
M872 FLAT BED



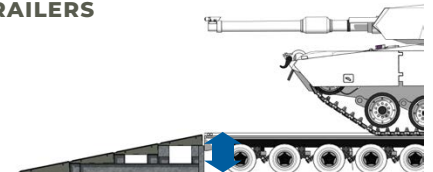
US SPEC RAIL CAR



EU SPEC RAIL



LOW BED TRAILERS





BAN-AIR.COM // RAMPS RANGE
SALES@BAN-AIR.COM