TYMETAL
SECURITY GATES & PERIMETER SOLUTIONS

MADE IN THE USA

TCRB-12-EMLA (M50/K12) Electro-Mechanical Crash Rated Beam & Operator System

Spans single clear opening widths up to 22 feet



FEATURES:

Crash Rated:
ASTM F2656-07-M50-P1 crash tested and certified. Will stop a 15,000 pound vehicle traveling at 50 mph within 1 meter.

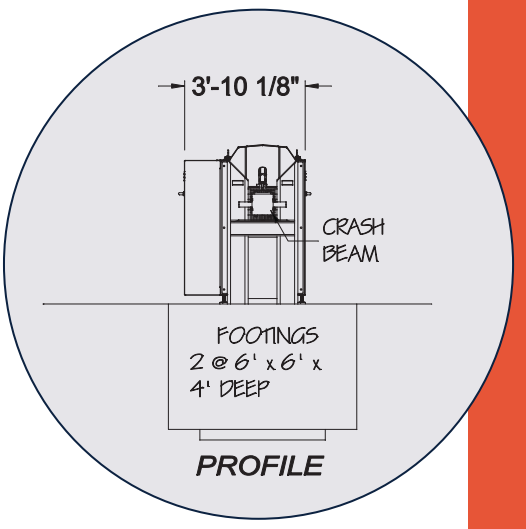
Design:
The TCRB-12-EMLA barrier arm system consists of an aluminum arm and steel buttresses embedded in professionally engineered footings. Features include a soft start/stop function for normal operation and an Emergency Fast Operation (EFO) feature for emergencies. Counterweights are included to facilitate manual operation during a power outage.

Construction:
The barrier system Incorporates an extruded aluminum beam and welded steel hinge and receiver buttresses. Engineered roping is installed within the beam, providing reinforcement and impact resistance.

Durable:
Fabricated by AWS Certified Welders.

TCRB-12-EMLA Operator:
An electrically powered, 24VDC heavy-duty linear actuator moves the beam throughout its range of motion. The actuator is operated by a programmable logic controller (PLC) which provides the soft start and stop motion. The system includes inherent sensing and if operated as Class III, photo eyes, loop detectors and reversing edges can be utilized.

Tested:
Cycle tested; performs reliably over time.

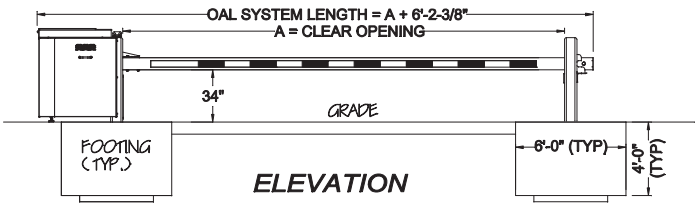


SECURING INFRASTRUCTURE AROUND THE WORLD SINCE 1985

Visit Our Website for a Full Specification and Drawings

TCRB-12-EMLA (M50) Crash Rated Beam & Operator

Maximum Clear Opening Width	**Single beam:** 22 feet (Note: Contact manufacturer regarding sizes greater than those stated.)
Maximum Height	Bottom of beam must be 34" above grade when in the closed position.
Crash Test Rating	ASTM F2656-07-M50-P1 (will stop a 15,000 pound vehicle traveling at 50 mph within 1 meter)
Beam/Barrier Arm Construction	▸ **Buttresses (stanchions):** Manufactured from steel components and welded steel elements. ▸ **Hinge Buttress:** Assembly includes internal bearings and stainless-steel axle allowing the beam to arc 90 degrees when fully open. ▸ **Receiver Buttress:** Designed to guide beam into place when lowered and retain beam during vehicle impact. A locking pin prevents unauthorized operation when unit is unattended. ▸ **Beam:** Constructed of square aluminum extrusion with engineered cabling installed within. Counterweight plates are installed for a balanced manual operation. ▸ **Concrete:** All concrete for installation is at or below grade.
Beam/Barrier Arm Operator	▸ Power is electromechanical with a heavy-duty linear actuator operated by an electronic variable motor drive allowing ramped speed operation. ▸ The controls will be operated through a programmable logic controller (PLC) capable of providing inputs/outputs to the barrier arm actuator and accessories. ▸ **Hand Crank:** A handle attached to the gearbox allows for manual operation during a power outage. ▸ **Speed:** 10 to 12 seconds to open or close. Emergency Fast Operation (EFO) reduction of 1 second. ▸ **Power options:** 115VAC or 220/240VAC single phase, 60 Hz; 220/240VAC or 460VAC three phase, 60 Hz; 50 Hz is available.
Finish	▸ **Buttresses:** Painted black with three-part epoxy paint process. First mechanical and then chemical cleaning, followed by a high-density zinc primer application and completed with a two-part epoxy paint for corrosion resistance. Hot dip galvanizing is optional. ▸ **Beam:** Finished in standard white polyester powder coating and striped with reflective red and white safety tape to increase visibility. The power unit is painted industrial gray.
Warranty	▸ The **TCRB-12-EMLA** is warrantied for two years from date of shipment on manufactured components and workmanship. This warranty excludes normal wear on finishes or damage that occurs due to impact, abuse, misuse or acts of God.



Speak with Specifications & Design Support Directly

Contact TYMETAL at 1-800-328-GATE (4283) or gates@tymetal.com

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