

STOPGATE[®] BARRIER ARM

KEEPS MOTORISTS AND TRAIN CREWS SAFE



OVERVIEW

The StopGate[™] Barrier Arm can help to prevent vehicle intrusion onto the railroad grade crossings by vehicles up to 4410 lb. (2000 kg) traveling at speeds up to 43 mph (70 km/h). When interconnected to standard railroad signal circuitry, the StopGate Barrier Arm closes the crossing when needed to provide for safe train pass-through. The StopGate Barrier Arm operates like a standard automatic warning gate using the interconnect signal to raise and lower the arm. Unlike a standard crossing device, the StopGate Barrier Arm completely spans across the roadway, and connects to a locking device on both sides of the road, creating a positive, crashworthy barrier..

Upon vehicle impact, the StopGate Barrier Arm acts as an arresting system to bring a vehicle to a complete stop. The StopGate Barrier Arm has successfully passed the NCHRP 350 TL-2 tests as required using vehicles weighing both 1808 lb. (820 kg) and 4410 lb. (2000 kg) for structural adequacy, occupancy risk, and vehicle trajectory evaluation criteria at speeds up to 43 mph (70 km/h).

FEATURES AND BENEFITS

- ▶ Surpassed 245,000 raise and lower cycles in an accelerated test program.
- ▶ Arm length can be adapted to span up to 55 feet (16.7 meters).
- ▶ Can be installed at crossings with posted speed limits up to 45 mph (72 km/h).
- ▶ Successfully meets evaluation criteria for NCHRP Report 350 Test Level 2.
- ▶ Complies with FRA fail-safe requirement.
- ▶ Meets MUTCD Section 8 requirements.
- ▶ Recognized by the U.S. Department of Transportation's Highway-Railroad Grade Crossing Technical Working Group as a supplemental safety device (SSD) that should be considered for use at crossings with passenger or high speed trains, in quiet zones or as otherwise recommended by an engineering study or diagnostic team.



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SUPERIOR IMPACT PERFORMANCE



The StopGate Barrier Arm incorporates annealed stainlesssteel cables laced together into a net-like structure and is designed to diffuse the kinetic energy of an impacting motor vehicle. The StopGate Barrier Arm helps to stop the vehicle from penetrating onto the railroad tracks and colliding with a train.

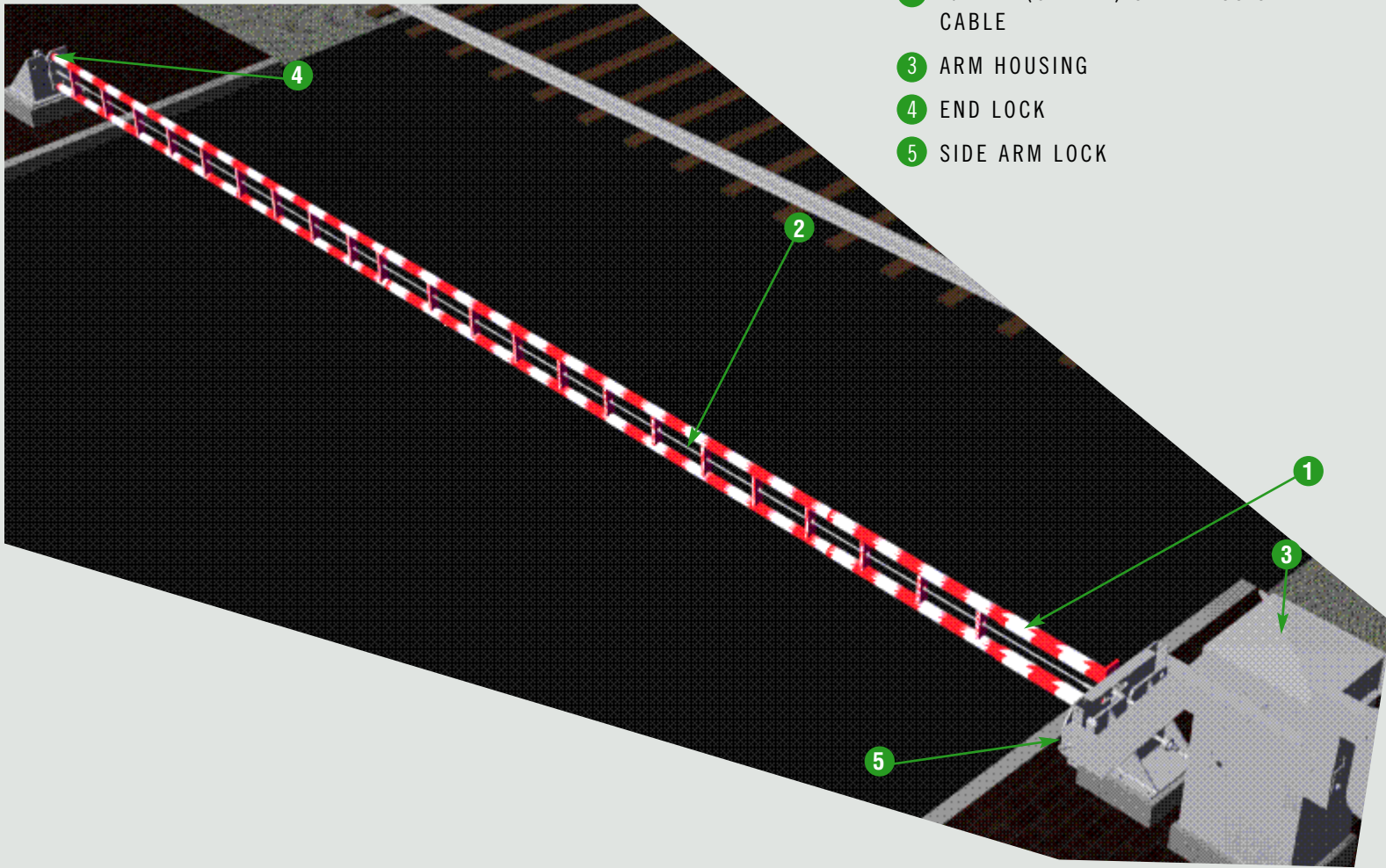
SPECIFICATIONS

StopGate Barrier Arms are custom designed for each application. The following are general specifications for a typical StopGate Barrier Arm:

Overall Length (with 55 ft. arm)	67 ft. (20.4 m)
Housing Dimension	2.5 x3 x5 ft. (.8 x.9 x1.5 m)
Required Clear Zone To Railroad Tracks	17 ft. (5.1 m)
Maximum Length Of Arm Structure	55 ft. (16.7 m)
Post Impact Repair Time*	Approximately 2 hours
Voltage Requirement	12 or 24 V

*Based upon a design impact, repairs should be done by a 2-man crew

- 1 ARM STRUCTURE
- 2 1/4 IN. (6.4 MM) STAINLESS STEEL CABLE
- 3 ARM HOUSING
- 4 END LOCK
- 5 SIDE ARM LOCK



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General specifications for the StopGate Barrier Arm are subject to change without notice to reflect improvements and upgrades. Additional information is available in the Product Manual for this system. Contact Energy Absorption Systems for details.