StopGate® Barrier Arm

TESTED PERFORMANCE TO KEEP VEHICLES OUT OF SECURED AREAS

OVERVIEW

The StopGate Barrier Arm can help to prevent vehicle intrusion into secured areas by vehicles up to 4410 lb. (2000 kg) traveling at speeds up to 43 mph (70 km/h). Based on initial costs, as well as projected costs of maintenance, the StopGate Barrier Arm can be an extremely cost effective method of protecting infrastructure. The StopGate Barrier Arm operates like a standard automatic warning gate. Unlike a standard warning device, the StopGate Barrier Arm completely spans across a roadway, and connects to a locking device on both sides of the road, creating a positive, crashworthy barrier that meets National Cooperative Highway Research Program (NCHRP) Report 350 TL-2 criteria.

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). The mass of the StopGate Barrier Arm gives it commanding presence that discourages drivers from challenging it.

FEATURES AND BENEFITS

- Surpassed 245,000 raise and lower cycles in an accelerated test program.
- Arm length can be adapted to span up to 45 feet (16.7 meters).
- Successfully meets evaluation criteria for NCHRP Report 350 Test Level 2.
- Failsafe design meets MUTCD Section 8 requirements.

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.

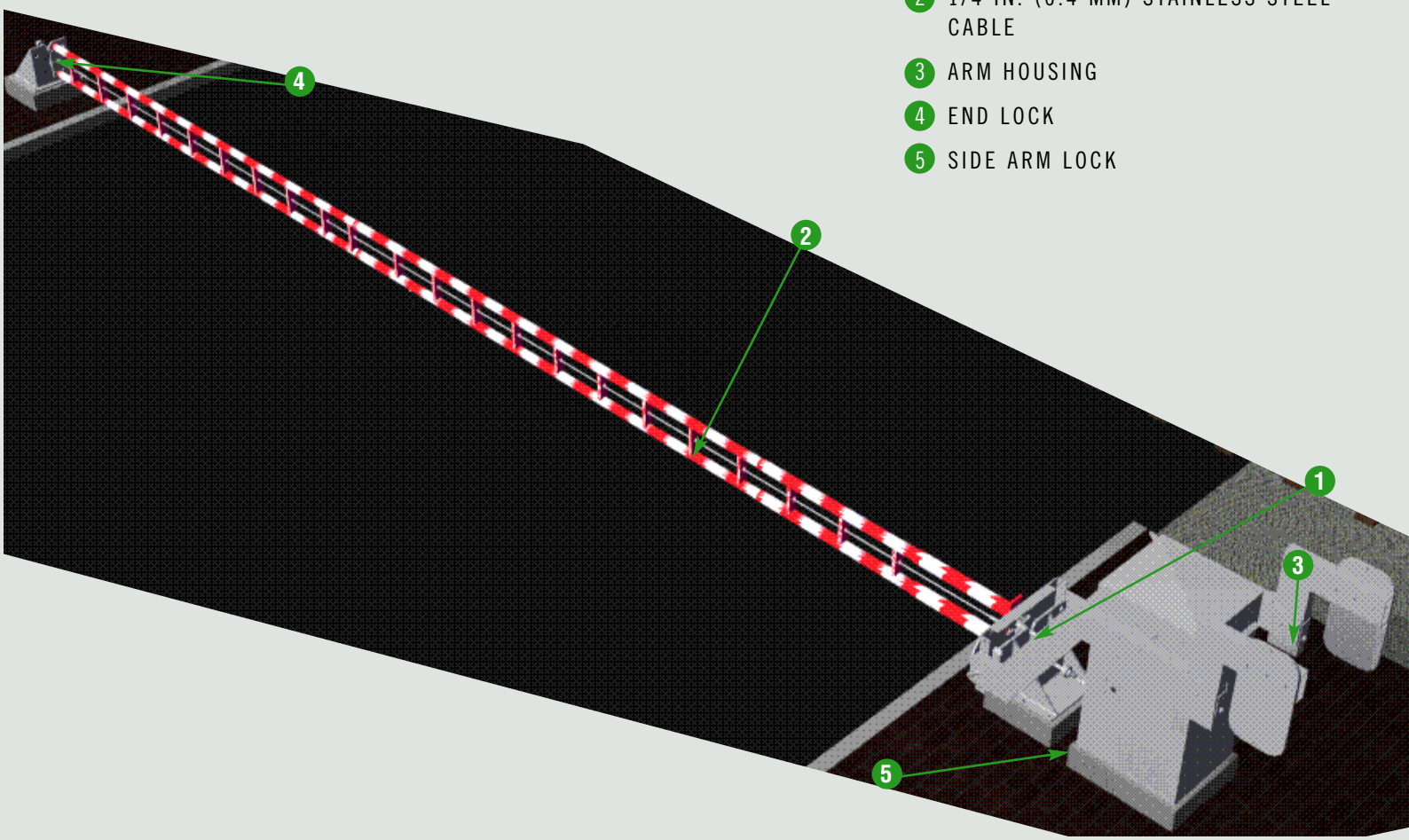
SPECIFICATIONS

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

Overall Length (with 45 ft. arm)	57 ft. (17.3 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	45 ft. (13.7 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



Quixote Transportation Safety

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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.