

1.03 SUBMITTALS

- A. Submit shop drawings of standard product and finish samples.
- B. Indicate pertinent dimensions, general construction, component connections and location, anchorage methods and location, hardware, and installation details.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver material to job site in manufacturer's packaging undamaged, compete with installation instructions.
- B. Store off ground, under cover, protected from weather and construction activities.

1.05 PROJECT/SITE CONDITIONS

- A. Install 6DWU(Crash Rated Beam Vehicle Barrier including excavation, trenching, and concrete foundation pads per manufacturer's printed instructions. Installer/owner to supply required permits/inspections.

1.06 WARRANTY

3HULPHWHU6HFXULW3DUBWQHJAV warranties its products against defects in material and workmanship for a period of one and one-half (1/2) year from date of shipment. This warranty excludes normal wear on finishes or damage that occurs due to impact, abuse, misuse or acts of God.

PART II – Products

2.01 MANUFACTURER

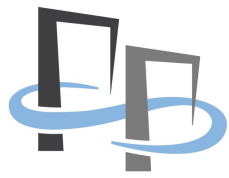
Satyr-12: Crash rated beam vehicle barrier as manufactured by:



Perimeter Security Partners
5038 Thoroughbred Lane, Brentwood, TN 37027
Ph 615.953.8872 Fax 615.468.6311
www.PerimeterSecurityPartners.com

2.02 CONSTRUCTION

- A. Buttresses (stanchions): The hinge and receiver buttresses are manufactured of steel components and welded steel elements. The hinge and receiver buttress assemblies are finish painted black
- B. Hinge Buttress: The hinge buttress assembly includes internal bearings and stainless steel axle allowing the beam arc from 0 degrees up to 83 degrees (+/- 2 degrees) when in fully open position. A cushioning device is included to reduce beam oscillation. Covers are included to conceal operating system and prevent debris, ice or snow accumulation.



- C. Receiver Buttruss: Receiver buttruss is designed to guide the beam into place when lowered and retain the beam during vehicle impact. The receiver buttruss includes a locking pin to prevent unauthorized operation of the unit when unattended.
- D. Concrete: All concrete for installation is at or below grade. Above ground concrete/forming for buttrusses/stanchions is not permitted allowing stanchion placement in close proximity to adjacent objects, walls etc.
- E. Beam: Beam is constructed of rectangular aluminum extrusion. The beam is mill finished with reflective red and white safety tape to increase visibility. Reinforcement provided by custom nylon straps installed in the beam and anchored with stainless steel rods.
- F. Hinge buttruss/beam arm incorporates a locking device to hold the beam arm in the "open" or "up" position for extended periods of time.

2.03 EQUIPMENT

- A. Barrier Operation: The Brother gear motor - 230/208V or 440V 3 phase or 230/220V 1 phase power Controls: Satyr-12E unit is provided with one set of "up" and "down" micro-switches supplied in the control cabinet for installation and testing purposes only. These controls are mounted in the control enclosure. The Satyr-12E unit requires activation controls (by others) for normal operation (see actuation in section 2.04 for types).

2.04 SECURITY EQUIPMENT

- A. Actuation: Activation may be by push button, card access, radio-wave remote controls, infrared beams (activation controls by others). Ground loop sensors (optional or supplied by others) are highly suggested to prevent barrier from operation when a vehicle is parked/standing in the operating area of the Satyr-12E beam.
- B. Disconnectable drive couplings in the event of power outage or equipment malfunction. The arm will be manually overrode.

2.05 FINISHES

- A. Satyr-12E is delivered painted black (buttrusses) with the beam in mill finished with reflective red and white safety tape to increase visibility. The power unit is painted industrial gray.
- B. Zinc primer to conform to SSPC Paint Specification #20 and SSPC-LO for zinc rich primers. Zinc dust is to meet ASTM D520, Type II.
- C. Intermediate primer must meet or exceed SSPC #36 level 3. Finish Paint to meet or exceed SSPC paint #22.
- D. Zinc-Arc Galvanization OPTIONAL

2.06 AVAILABLE OPTIONS

- Traffic Lights
- Operator Heater
- Buttress Heater
- Electric motorized operation in lieu of hydraulic operation
- Crash rated Beam Magnetic Lock
- Crash Rated Beam Flashing Light Kit
- Loop Detectors
- Auxiliary Limit Switch (proximity switch)
- Remote Slave Control Panel – Desk Mount- Single Unit Control
- Master Control Panel – Desk Mounted – Single Unit Control
- Touch Screen Controls
- Manual Operation
- Zinc-arc Galvanization

PART III – EXECUTION

3.01 INSTALLATION

- A. Inspection: Installer must examine the location and advise the Contractor/Owner of any site conditions unacceptable for proper installation of product. These conditions include but are not limited to the following:
 1. Existing underground utilities or unforeseen issues.
 2. Removal of pavers, stones, road surfaces or landscaping.
- B. Buttress Installation: The hinge and receiver buttress are cast in a concrete foundation below grade.
- C. Erection: Install Satyr-12E unit in accordance with manufacturer's printed instructions. Set units level and plumb and in line with adjacent structures or roadway. Anchor securely into place. Use installers with experience in the installation of vehicle barriers. For a list of qualified installers, please contact PSP sales department.
- D. Adjustment: Installer shall adjust beam arm and hardware for smooth operation and proper performance.
- E. Maintenance: Follow maintenance procedures as outlined in the Instruction or Operation Maintenance Manual.
- F. Cleaning: Clean surfaces carefully after installation to remove excess concrete, caulk, dirt and labels.