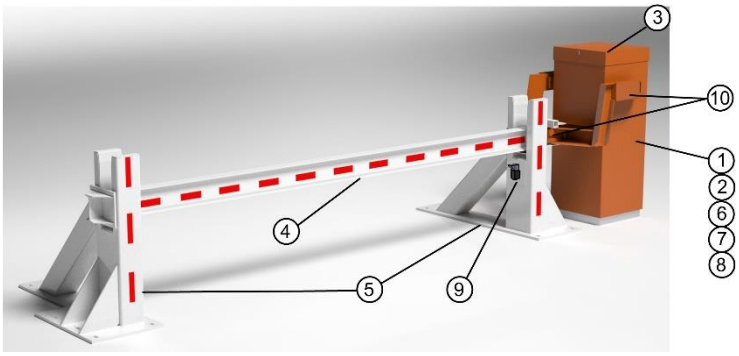
BL43-HD

Technical datasheet

NAM-BL 43-HD-FT-EN-E

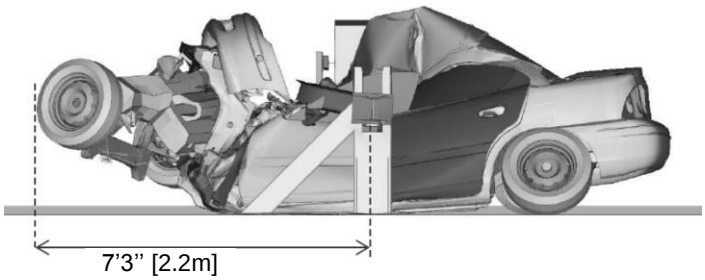
AUTOMATIC SYSTEMS

Access controlled...
Future secured



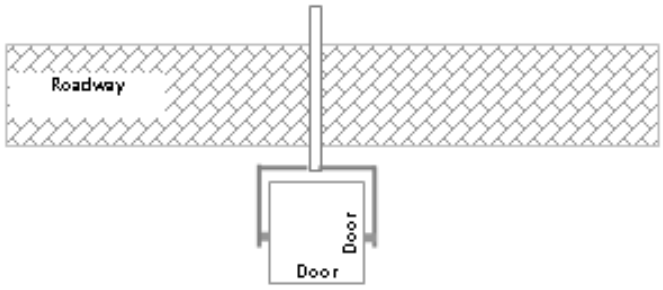
Rising barrier for vehicle access control in areas requiring high security, such as: Court houses, Police Service buildings, etc.

IMPACT SIMULATION



Impact simulation as per ASTM F2656 category C40-P2

CONFIGURATIONS



DESCRIPTION

1. **Operator cabinet** made of folded and welded sheet metal, ranging from $^{1}/_{8}$ to $^{5}/_{16}$'' [3 to 8 mm] in thickness.
2. **Removable side and back panels** provide easy access to the mechanism (lockable by key).
3. Weather-resistant, **removable top cover** (lockable by key).
4. **Central arm**, painted white with red and white reflective stripes. The arm is made from an I-Beam (type S150x19), utilizing 50W grade steel.
5. **2 bracing posts** to support the arm (anchored in concrete). Made of steel and painted white with red and white reflective stripes.
6. **Solid drive shaft for the arm**, with a diameter of 2'' [50mm], mounted on 2 lubricated for life bearings.
7. **Electromechanical assembly:**
   - Reversible three-phase asynchronous gear motor.
   - Secondary transmission via gearwheel and sprocket wheel.
   - Frequency inverter ensuring the progressive acceleration and controlled decelerations of the arm, for a vibration-free movement and enhanced protection of the mechanism.
   - Open and closed positions are maintained via an electromagnetic locking device in operation and also during power outage.
   - Electronic torque limitation ensures an immediate stoppage of the arm during closing (in the event of an obstacle).
   - Inductive limit switches.
   - Balancing of the arm by means of 6 compression springs.
8. **Configurable AS1320 electronic control board** allowing for various control options and/or additional accessories.

   Terminal block, located on the control board, with the ability to communicate with external device:
   - Providing status of the arm position (open or closed)
   - Providing status of the presence detectors
   - Allowing for master-slave control of 2 barriers opposite each other (movement of one barrier controlled by the other barrier).
9. **Safety detection photocells**.
10. **Anti-vandalism bolt covers**.

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STANDARD TECHNICAL CHARACTERISTICS

Input power(1)	120 VC, 60 Hz + ground.
Consumption	450W (nominal) – 950 W (max. with largest heater)
Motor	Three-phrase 240 V / 250 W controlled by frequency inverter
Transmission	Reversible ring and pinion speed reducer, service factor 1.2
Arm length (L)	13’3’’ [4.04 m]
Free passage (W)	10’ [3.05 m]
Operating T°	14°F to 122°F [-10°C to +50°C] without heater option
Max relative humidity	95%, without condensation
Wind resistance	74.6 mi/h [120 km/h]
Opening speed(2)	3.5 s
Closing speed(2)	5.5 s
Weight (without arm)	550 lbs [250 kg]
Weight arm	184.8 lbs [84 kg]
Impact rating	Impact simulation as per ASTM F2656 – category C40-P2 Vehicle 2420lbs [1100 kg] at 40 mph [65 km/h] Vehicle penetration less than 23’1’’ [7m]
MCBF(3)	1,250,000 cycles *(with recommended maintenance)*

(1) not to be connected to a floating network or to a high impedance earthed industrial distribution network
(2) adjustable through the control board
(3) Mean Cycle Before Failure

ANTI-CORROSION TREATMENT

- Zinc-coated internal mechanical parts.
- Complete body (housing, cover and doors): 4000 hrs salt spray resistant primer + powder coat paint (standard color: Orange RAL 2000)

OPTIONS

1. Mechanical locking of the arm in opened and closed position upon power failure. The behavior desired in case of power failure (locked or not) must be specified at time of order
2. STOP sign with a diameter of $11^{13}/_{16}$’’ [300 mm]
3. Traffic lights mounted on a standalone post
4. Push-button box
5. Key switch (with captive or removable key)
6. Remote control
7. Detection loop
8. Presence detector for inductive loops
9. Additional photocells to open, close or automatically stop the barrier arm
10. Photocell support post (car or truck height)
11. AS1321 Input/Output extension board.
12. AS1049 board for third-party traffic signs.
13. Thermostatic 250W heating for operation down to -13°F [-25°C]
14. Thermostatic 500W heating for operation down to -49°F [-45°C]
15. Non-Standard RAL colors available.

For restrictions on options please speak to your sales representative.

STANDARD DIMENSIONS (INCHES & MM)

Refer to the installation