The Avon EB750 Excel Barrier is an ideal security barrier that can be utilised as an automatic traffic barrier for car parks and security control.

It can easily integrate with revenue collection and access control systems and is recommended for a wider road width or if signage, lights or drop skirts are required for the boom.

The barrier stands 1135mm above foundation level, with the boom 840mm above foundation level. The heavy duty motor plate supports the 100% duty cycle permanent capacitor 4 pole T.E.F.C. motor which provides the power for the toothed belt driven industrial grade gearbox, which in turn drives the sinusoidal output mechanism. Two heavy duty bearings support the drive shaft; this having 2 machined cams to activate the adjustable limit switches to control the boom travel.

The hinged/removable lockable steel top cover provides access to the drive mechanism. The cabinet houses the ‘parking logic’ control panel, providing the necessary power supply isolator, fuses, thermal overload trips and motor contactors.

For boom lengths greater than 5m a straining wire is added for additional stability, along with an adjustable spring loaded end steady/pogo support to suit, recommended when equipment is added to the boom.

Features
- 100% Duty cycling
- Electro-mechanical drive unit
- Fast acting 4.2 sec
- Multi-process coating specification
- Modular design
- Winding handle facility
- 230v single phase 50Hz 6A

Benefits
- Reliability
- Low maintenance
- Service spares
- Manual operation in the event of power failure
- Ease of installation
**Technical Specification**

**EB750 Excel Barrier**

### Physical Dimensions
- **Barrier Cabinet**: 305mm W x 460mm D x 1135mm

### Basic Power Requirements
- 230v single phase, 50Hz, 6 amp (optional international voltages available)

### Control Voltage
- S.E.L.V 24v

### Speed of Operation
- 4.2 seconds to raise or lower

### Boom Height
- 965mm underside of boom to road surface (125mm Kerb)

### Operating Temperature Range
- -25°C - +70°C

### Approximate Weight
- 130kg

### Construction
- The all steel cabinet and cover are shot blasted, to give a clean grease free surface providing maximum keying effect for the two pack high zinc primer, 40 microns followed by a yellow (RAL1007 other options available) textured polyester powder coated top coat, 40 microns.
- **Boom Profile**: Rectangular extruded aluminium 76 x 38mm white powder coated with red fascal striping (black and yellow option available) Max length 7m. Booms are mounted on the right hand as standard unless specified.

### Installation
- The barrier foundation should consist of grade C25 concrete and it is recommended that the barrier is secured to the foundation using 4 M12 x 160mm chemical anchors. The installation of ducts for cabling is dependent upon the control criteria.

---

### Technical Details

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Dimensions</strong></td>
<td>Barrier Cabinet - 305mm W x 460mm D x 1135mm</td>
</tr>
<tr>
<td><strong>Basic Power Requirements</strong></td>
<td>230v single phase, 50Hz, 6 amp (optional international voltages available)</td>
</tr>
<tr>
<td><strong>Control Voltage</strong></td>
<td>S.E.L.V 24v</td>
</tr>
<tr>
<td><strong>Speed of Operation</strong></td>
<td>4.2 seconds to raise or lower</td>
</tr>
<tr>
<td><strong>Boom Height</strong></td>
<td>965mm underside of boom to road surface (125mm Kerb)</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-25°C - +70°C</td>
</tr>
<tr>
<td><strong>Approximate Weight</strong></td>
<td>130kg</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>The all steel cabinet and cover are shot blasted, to give a clean grease free surface providing maximum keying effect for the two pack high zinc primer, 40 microns followed by a yellow (RAL1007 other options available) textured polyester powder coated top coat, 40 microns. <strong>Boom Profile</strong>: Rectangular extruded aluminium 76 x 38mm white powder coated with red fascal striping (black and yellow option available) Max length 7m. Booms are mounted on the right hand as standard unless specified.</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>The barrier foundation should consist of grade C25 concrete and it is recommended that the barrier is secured to the foundation using 4 M12 x 160mm chemical anchors. The installation of ducts for cabling is dependent upon the control criteria.</td>
</tr>
</tbody>
</table>

---

### Options Available

- Access control & intercom systems
- Black / Yellow boom fascal
- Inductive loop systems
- Boom lights
- Inductive loop facility (up to 3m)
- Alternative cabinet colours available
- Left handed boom mounting
- Boom mounted STOP / NO Entry signs
- Additional safety equipment including safety buffer, photo electric cell
- Skirt underslung

---

**Avon Barrier Corporation Ltd**
149 South Liberty Lane
Bristol BS3 2TL
United Kingdom

**Tel** +44 (0) 117 953 5252
**Fax** +44 (0) 117 953 5373
**Email** sales@avon-barrier.com
**Website** www.avon-barrier.com

Avon Barrier reserve the right to change or amend the specification of its products from time to time in furtherance of its policy of continued improvements.