



**Traffic Management Products**  
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# Munro

## Robust and elegant

Ideal for marking junctions and for reinforcing traffic calming schemes.

### Application

Perimeter or asset protection. Junctions and traffic calming schemes.

### Safety

The Munro is available as either standard, or with a steel core or as a reboundable bollard. For high-risk traffic calming applications we recommend our reboundable variant. Our rebound material bollard has been tested to BS EN 12767:2019 and will deliver significant cost-savings due to its ability to rebound on impact.

### Security

Where perimeter protection is needed, our Munro bollard is available with a 140mm diameter inner steel tube. This is a great option for protecting pedestrians and other valuable assets.

### Long life

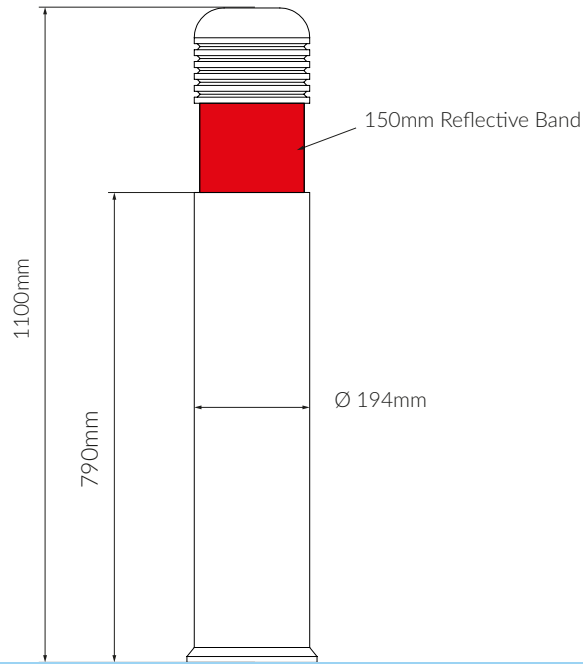
Our bollards are built to last. They're abrasion and chip resistant, as well as being resistant to salt spray and uric acid. Plus at the end of their lives, our bollards are recyclable.

### Compatibility

The whole of our street furniture bollard range has been designed with the option of our innovative LockSafe® system. This means our LockSafe® roots are directly compatible with industry standard sockets already in the ground. We have options for both round and square ground sockets.

**LockSAFE®**

# Specifications



## Standard Material:

Rotationally moulded using an advanced polyethylene, our standard bollards are durable, ultraviolet light resistant and have great low-temperature impact resistance.

## Rebound Material:

Our rebound bollards are rotationally moulded using a specially formulated type of low density polyethylene (LDPE). This makes our bollards flexible on impact, resistant to UV light and very durable.

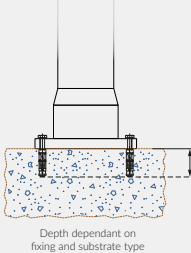
Passively Safe to BS EN 12767:2019 - 100-NE-A-R-NS-MD-0  
70-NE-A-R-NS-MD-0  
50-NE-A-R-NS-MD-0

BS EN 12767:2007 - 100:NE:4

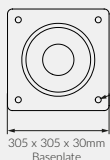
<b>Material</b>	Polyethylene
<b>Colour</b>	White as standard (other colours available)
<b>Sign face</b>	n/a
<b>Banding options</b>	150mm - DDA Compliant
<b>Banding colour</b>	Red   White   Red & White   Custom
	BS EN 12899-1 2007 compliant retro-reflective material
<b>Installation options</b>	Steel-core   Bolt-Down   Concrete-in Root
	LockSafe®- SQ Root   LockSafe®- R Root   LockSafe® Socket
<b>Recyclable</b>	Yes
<b>Warranty</b>	1 Year Full Manufacturers Warranty

# Foundations

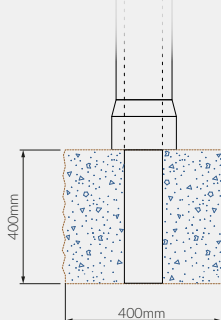
## Bolt Down Standard and Reboundable (Surface Mounted) (Flange Fixed)



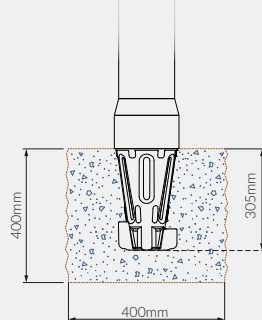
Depth dependant on fixing and substrate type



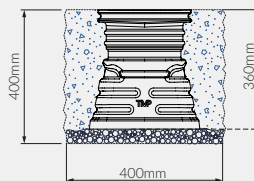
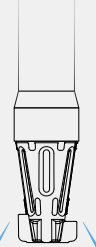
## Steel-Core Secure 1320 x 140 x 5mm mild steel insert



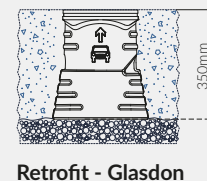
## Concrete-in Root Standard and Reboundable (Same root as LockSafe-SQ but without the mechanism)



## LockSAFE-SQ Root Standard and Reboundable

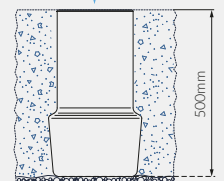
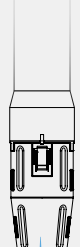


## TMP Socket (For LockSafe-SQ root bollards)



## Retrofit - Glasdon LockFast™ Socket ("Square" Socket)

## LockSAFE-R Root Standard and Reboundable



## Retrofit - Glasdon Ground Socket ("Round" Socket)

Our bollards can be installed in a 400mm wide by 400mm deep excavation using quick-setting concrete, e.g. Grade QC10, but the exact installation requirements should be assessed by a site survey. We recommend our LockSafe® socket is bedded on gravel to help drainage and alignment.

We operate a policy of continuous product development and reserve the right to change or improve specification without prior notice. E & OE.  
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