



TMP Solutions

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Orion 20

Highway Safety bollard

Ideal for traffic management and
traffic calming schemes.

The Orion 20 is an elegant and robust polymer bollard with a 20mm tall reflective band at the top and optional 20mm reflective band at the base.

The Orion 20 is part of our versatile range of street furniture bollards. They're made right here in the UK, from a recyclable polymer, with the option of being standard, reboundable or have a steel core.

Installation options:

- Bolt Down - fast surface mounting
- Root - traditional concrete install
- Socket - easy to replace and reinstall
- Steel Core - pedestrian and asset protection
- Standard or Rebound material
- Abrasion, chip, salt spray and uric acid resistant
- All reflective material meets BS 8408:2005
- Recyclable

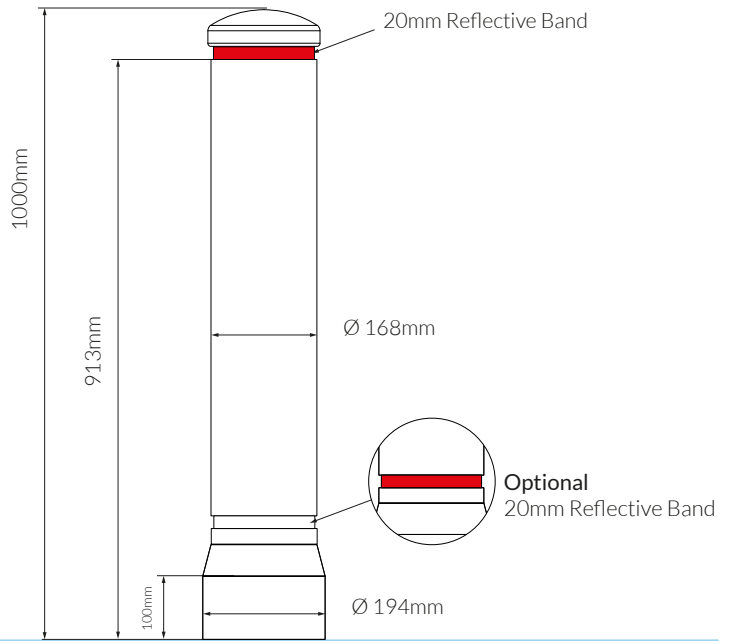
LockSAFE®

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. So there's no need to stay locked into your current supplier, when we could deliver significant design and cost advantages.



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:

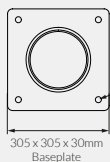
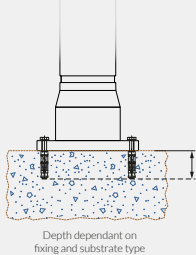
Our rebound bollards are rotationally moulded using a specially formulated type of low density polyethylene (LDPE). This makes our bollards flexible on impact, resistant to UV light and very durable.

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

| | |
|-----------------------------|---|
| Material | Polyethylene |
| Colour | Black as standard (other colours available) |
| Sign face | n/a |
| Banding options | 20mm top with optional 20mm at the base |
| Banding colour | Red White Red & White Custom |
| | BS EN 12899-1 2007 compliant retro-reflective material |
| Installation options | Steel-core Bolt-Down Concrete-in Root |
| | LockSafe®- SQ Root LockSafe®- R Root LockSafe® Socket |
| Recyclable | Yes |
| Warranty | 1 Year Full Manufacturers Warranty |

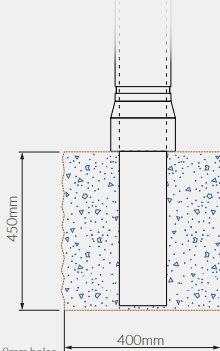
Foundations

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

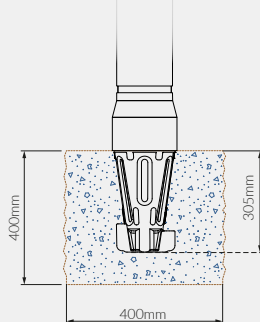


4 Qty Ø 18mm holes at 240mm centres for M16 fixing bolts

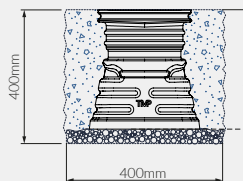
Steel-Core Secure 1400 x 140 x 5mm mild steel insert



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



LockSAFE-SQ Root Standard and Reboundable

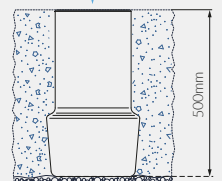
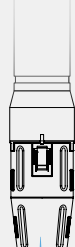


TMP Socket (For LockSafe-SQ root bollards)



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 400/450mm 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.

Note: It is important to avoid contact between the socket or bollard and hot tarmac as this will impair performance.

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