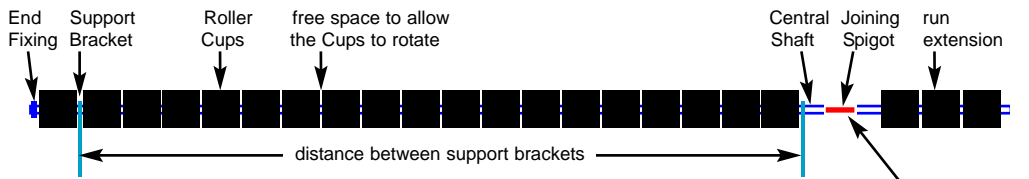


Roller Barrier Technical Guide

Single and Double Row Roller Barrier Installations



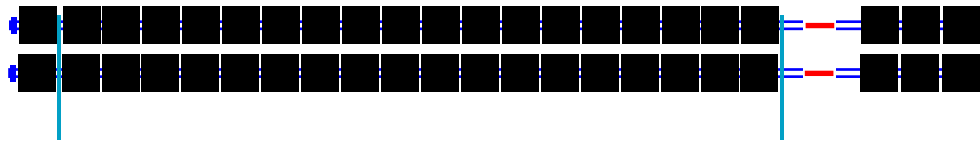
There are 10 Roller Barrier Cups to each linear metre, you will also need to allow 20-30mm of free space per metre of an installed run between Support Brackets, to ensure that the Roller Cups can rotate freely without jamming together

The maximum recommended distance between the Support Brackets is 2 metres, however you may need to reduce this maximum distance to meet the performance needs for specific locations or the type of threat that the installation is designed to tackle.

Where Roller Barrier is installed at a height of less than 2.5 metres from ground level for instance, the max. distance between brackets may need to be reduced to 1.0 to 1.5 metres

Each separate installed run must be terminated at each end with a suitable end fixing

Each Central Shaft is 2 metres in length, but runs can easily be extended by joining two shafts together with a joining spigot



Trigard and Vertical Row Roller Barrier Installations



Trigard is a pyramid shaped installation when viewed from the end and is typically used to protect lower level surfaces.

The maximum recommended distance between support brackets for a Trigard installation is 1 metre

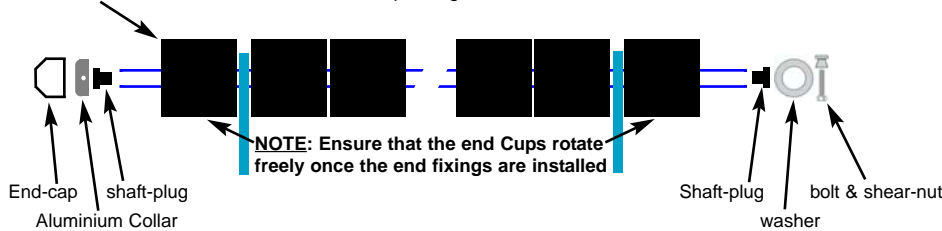


When installing Roller Barrier in a vertical format, the Roller Cups should be installed with the solid face upward to ensure that the Cups do not collect rainwater, leaves or other debris.

Terminating the ends of an installed Roller Barrier run

Every Roller Barrier run must be terminated at each end with a suitable end fixing to prevent unauthorised tampering with the installation. The end-cap, aluminium collar (secured in position with its grub screw) and shaft-plug end fixing set, provides a neat, attractive finish, whilst the bolt & shear-Nut option (with washer and shaft-plug) offers a practical alternative where budgets are ultra critical.

It is recommended that wherever possible and practical, one Roller Cup is installed to the outside of the last Support Bracket, with the solid face of the Roller-Cup facing outward.



Roller Barrier Support Brackets and Fixings

As the Roller Barrier system can be installed in a wide range of environments and attached to a variety of structures and surfaces, the system is supplied without fixings, which obviously need to be appropriate to each specific installation. A range of fixings including standard and security type fixings are available to purchase separately as required.

All Roller Barrier Support Brackets are pre-drilled with 10mm fixing holes or slots which suit M8 Bolts, Fastfix Masonry Screws, Coach-Screws, etc.

Note: most brackets are available with a choice of single or double row options

Brackets suitable for top fixing to walls, parapets, gates or fences

- Universal Bracket
- Fence Top Bracket
- Straight Bracket
- Trigard Bracket

Brackets suitable for face fixing to walls, buildings, gates or fences

- Universal Bracket
- Fence Top / Fascia Bracket
- Straight Twist Bracket
- Cranked Bracket
- Adjustable Bracket
- Alley Bracket

Brackets suitable for fixing to a mesh fence (i.e. 358 security mesh)

- Cranked Bracket
- Straight Twist Bracket
- Universal Bracket

Note: when fixing any type of bracket to mesh fencing, brackets will need to be secured to a bracing plate at the rear of the fence panel, i.e. forming a Mesh-sandwich.

Technical Specifications;

The Roller Cups;

Cups are manufactured from high grade polycarbonate granules to ensure the production of an ultra-robust end unit. (recycled polycarbonate material is used wherever possible to help users to meet their recycling targets).

During the moulding process, special additives are introduced to provide UV protection to Tropical Standards and also to enhance the self-extinguishing characteristics of the cups themselves to protect against fire or arson attack.

The Central Shaft;

Extruded round tube BS1471:1986 (BS6082) OD; 25 x 2mm wall

The Brackets;

Brackets are manufactured as standard from Mild Steel and galvanised for weather protection. They can also be manufactured from Stainless Steel to special order.

As an optional extra, all brackets can be overpainted in any standard RAL colour, with a robust baked-on powder coat paint finish.

Fixing;

Roller Barrier can either be bolted to walls using Fast-fix masonry screws or if appropriate, expansion bolts (care should be taken when using expansion bolts to ensure that they will not fracture the substrate they are being fixed into).

Alternative fixings include hex-bolts, coach screws, security fixings (nuts, bolts and screws), or welding.

Note: to prevent access to an easy foothold, etc. ideally brackets should be installed so that the distance between the base of the lowest roller cup and the wall or fence top, is no more than 50mm

Warning Signage;

Wherever any type of anti-climb system is installed it is strongly recommended that warning signs are clearly displayed in a way and at appropriate intervals to alert anyone approaching the barrier of its existence.

Display of warning signs (typically at no more than 5 metres apart), is likely to be a legal requirement wherever an anti-climb system is installed in any non-domestic environment.

A range of types and size of warning sign are available to ensure suitable signage for any type of environment.

See our **"Selecting & Installing your Roller Barrier System"** brochure for more detailed information and guidance regarding installing Roller Barrier.