



Introducing Roller Barrier

Protecting your premises against climbers without the risk of causing them injury or impalement.



**ROLLER[®]
BARRIER**



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BARRIER**

Key Features of Roller Barrier Solution at a glance

- Safe, Effective, Non-Aggressive Anti-climb Barrier (no risk of causing impalement type injury)
- Quick and Easy to Install
- Simple to incorporate into New Builds
- Easy to Retro Fit to existing structures
- Suitable for use in almost any environment
- Colour options to blend with surroundings
- Unobtrusive and Non-threatening appearance
- Standard and Bespoke solutions available
- Long, maintenance free life expectancy

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What is Roller Barrier?

Roller Barrier is a safe, non-aggressive anti-climb system, developed to provide an effective anti-climb barrier for use where more aggressive products such as anti-climb spikes, simply could not be used.

Originally developed to prevent patients at a drug rehabilitation facility from slipping away from the premises by climbing over the perimeter fence, Roller Barrier is ideal for use anywhere that children, or any person suffering from temporary or permanently impaired judgement may be present, and who may not therefore understand the risk of injury involved in trying to climb over more aggressive barriers.

Sold by the metre, Roller Barrier is supplied as standard in 2 metre lengths and comes complete with all main components including; the special Roller Cups, Central Shaft onto which the Cups are threaded, and the Mounting Brackets which fix the system in position to protect your vulnerable areas.

Where can you use it?

Unlike spiked and other aggressive types of anti-climb barrier, which could cause serious injury and are therefore subject to legal constraints and guidelines as to where and how they can be installed, there are no legal constraints to limit where Roller Barrier can be used.

For that reason, Roller Barrier is now the anti-climb system of choice as specified by many users and it is the ideal anti-climb solution for use anywhere that vulnerable persons need to be kept within, or out of a designated area.

In this context, vulnerable persons include children who may not have the life experience to understand the risks (such as impalement, etc.) associated with attempting to scale more aggressive spike type barriers. It also includes any person with permanent or temporarily diminished perception of the potential risks of trying to negotiate any form of aggressive anti climb barrier, including people under the influence of drugs or alcohol, or anyone suffering from any type of permanent or temporary mental impairment.

For maximum effectiveness, it should be installed above head height, so that any potential climber or intruder would need to reach upward to climb over it.

Increasingly specified for incorporation into new builds, it is also an easy retrofit to existing walls, fences and buildings (preventing access to flat roofs, etc), making it a quick, simple and cost-effective solution for use where you need to beef up your safety and security at current points of vulnerability.

Although originally designed for external installation on walls or fences, Roller Barrier is also used in indoor locations and has even been installed within prison buildings.

When installed in outdoor environments, it is also important to consider the geographic location as one of the major components of the system is the polycarbonate Roller Cups. The standard stock Roller Barrier product is suitable for use virtually anywhere apart from in Tropical locations (a bespoke customised tropical version of the product could however be supplied if required).

Our experienced Roller Barrier distributors are keen to deliver the right solution for their customers, so you can be sure that they will be happy to provide free, practical, no nonsense advice, on the suitability of the product for your specific location and where appropriate, the best type of installation for your needs.

*Roller Barrier is
now the anti-climb
system of choice*

How does it work?

The system is designed to be installed at a height where any would be climbers have to reach up to grab it.

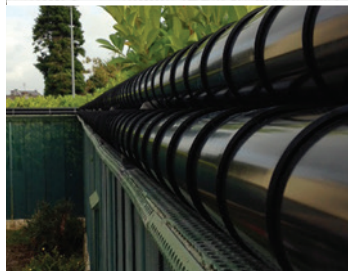
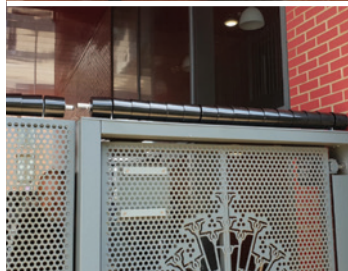
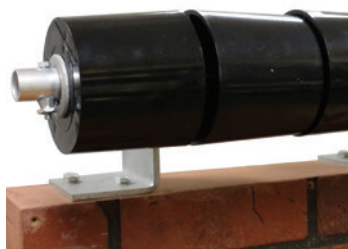
The large diameter special Roller Cups which form the barrier, are intentionally designed to be too large to allow anyone to get a handgrip on and as each cup rotates freely and independently from all the others mounted on the central shaft along the barrier, the intruder simply slips off of the unstable barrier.

The unique Roller Cups are threaded onto a central shaft, which is itself attached with special mounting brackets to a structure such as a wall, gate, fence, building fascia, etc. The stock range of mounting brackets meet most installation needs, however bespoke brackets can easily be produced to meet any special needs.

There is a choice of single and double row barriers, whilst the special triple row "Trigard" variation has been designed specifically to offer a practical solution for use on lower structures, which means there is a stock solution available for most locations and environments.

However, for those odd situations where the stock product does not quite fit the bill, we are happy to design a specific bespoke solution, a service we have delivered to many of our customers over recent years.

Roller Barrier is now the non-aggressive anti-climb product of choice for many users and it is the product often specified for use in and around schools, hospitals, secure medical facilities, and retail premises among many others. It's a great solution for keeping people within, or out of, designated areas.





Some Existing Installations – a quick look

The effectiveness of Roller Barrier has been proven time and again in a wide range of locations and environments, however other factors often feature in the buying decision. For some users such as Secure Medical Facilities, Special Needs Schools and Young Offender Institutions, for instance, the unobtrusive and non-threatening appearance is also important, whilst for Historic Houses and Public Buildings, the attractive aesthetic appearance may be a key consideration.

Over the following pages are some typical installations in a variety of environments.

Protecting School Grounds

The 3 metre high security fence and gates at this new school, proved more of a challenge to local youths than a deterrent!

Retro-fitting Roller Barrier above the vulnerable gates proved successful in stopping vandals and unauthorised intruders from entering the school grounds after normal opening hours and a Phase II installation is planned to offer protection for other vulnerable areas at the site.



Prisons & Young Offenders Institutions

Installed at key points around a Young Offenders institution in Canada, Roller Barrier is shown here installed to prevent the inmates from gaining access to low roofs.

The system is also used to prevent patients at psychiatric hospitals and facilities for the mentally handicapped, etc. from climbing onto roofs or scaling fences, where the use of a more aggressive or spiked anti climb barrier would present a serious risk of injury.



Double Row Roller Barrier Solutions

The double row Roller Barrier installation shown here, was installed above low walls and gates surrounding an adult learning facility.

The installation instantly stopped drug users from climbing into the locked grounds overnight, which eliminated the need for the daily clean-up of needles and other drugs detritus every morning.



Preventing access to flat roofs

Flat Roofs seem to be a magnet for children as well as vandals, burglars and other undesirables.

This typical type of Roller Barrier installation offers a simple way to stop unauthorised access, and as it can be Top or Face Fixed, it's easy to install it in a way that avoids damage to the delicate roof membrane which could lead to a leaky roof!



Trackside & Gated Railway Crossings

Used to deter unauthorised access to railway tracks, Roller Barrier is shown here in use at a gated crossing.

The rail operator specified that the system should be green, colour matched to the existing palisade fencing.



Plant & Equipment Installations

These air conditioning vent cages at a school, were frequently used as a climbing frame to gain access to the low lying roof area immediately above them until Roller Barrier was installed on them.

Not only did the roof pose a danger to the young climbers, but the frequency with which roof tiles were broken and had to be replaced was a constant drain on school budgets.



Parks & Gardens

Blending in with parkland surroundings, green Roller Barrier is an easy retro-fit to existing walls or fences.

Available in Black or Green from stock, Roller Barrier Cups can also be manufactured in a wide range of other RAL colours.



Community Centres & Youth Clubs

The versatile Roller Barrier system is shown here installed to follow the unusual contoured roofline of a London community centre,

...the roof of which had previously been plagued by vandalism and damage from climbing children and youths, is now a protected area.



Supermarkets & Retail Premises

When this Supermarket Store needed a non-aggressive, but effective solution to protect against intruders, Roller Barrier was the natural choice.



Bespoke Colour Roller Barrier

The large upper floor balcony area of this care facility for the mentally handicapped, was deemed a potential danger to the patients should they try to climb over the glass and steel surround.

The operators were required to install a suitable anti climb barrier, or face closure of the facility, ...so the search was on for an effective, non-aggressive anti climb system to blend seamlessly with the existing structure.

Roller Barrier with its proven performance in other care homes was the natural choice and the special polycarbonate Roller Cups were colour matched to the white finish of the steel panel supports.



Childrens Centres & Play Areas

This childrens centre and play area was regularly vandalised until Roller Barrier was installed.

Roller Barrier installed along the fence and gate top helped to prevent access to the site after hours, while the Roller Barrier installations above the canopy supports, prevented children from using them as climbing bars.

The installation of Roller Barrier around the flat roof prevented access to it and subsequently to the vulnerable first floor windows.



Special Needs & Mental Care Facilities

Installed to prevent patients from scaling fences and gates at this facility...

Roller Barrier was chosen because of its non-threatening, non-confrontational looks and its proven performance in similar environments.



Homes for Autism

In this family home, Roller Barrier was installed to provide a safe and non-aggressive way to prevent an 11 year old autistic son from climbing out of the family garden into neighbouring properties or on to a busy road to the rear of the property.

The barrier was installed on all wooden perimeter fence panels and gate around the rear garden and along the ground floor roof line edges.



Children's Centre

The design of this multi storey building made it easy to gain access to upper storey windows via the various levels of flat roof.

Unobtrusive yet effective, Roller Barrier installed around the ground floor roof area delivered a practical solution.



Libraries & other modern buildings

The interesting design of this recently built library building is pleasing to the eye, but the flat roof was being damaged by local youths who were using it as a skateboard park.

Installing Roller Barrier around the building's roof edge solved the problem without detracting from its aesthetic appeal.



Walled Gardens and other public areas

Discreet and effective, Roller Barrier is the natural choice where an aggressive anti-climb device is not an option.



Following the curve

The curved flat roof of this library presented a special challenge for the installers,

...but careful planning and installation, produced a great result and a very happy customer.



Pupil Referral Units

With many easy access routes to the roof of this Pupil Referral unit, Roller Barrier combined with other products such as anti-climb downpipe covers, were installed in a variety of areas including along fences and walls and on to building fascias to curtail the problem.

Horizontal and vertical Roller Barrier runs were combined at this gate area.



Yellow is the colour!

The sunny yellow of this secure medical facility is almost certainly appreciated by the residents,

...but when Roller Barrier was proposed to stop patients trying to climb onto the roof, it was felt that using the standard black cups would be detrimental, so the cups were colour matched to the colour of the building.

Black cups were however used on the wooden fence areas where they blended in well.



Blocks of Flats

Intruders found little difficulty in climbing on to the first floor balconies at this block of flats, until Roller Barrier was installed along the balcony walls.



Solutions for Psychiatric Facilities

This Psychiatric Hospital in Philadelphia (USA), was experiencing problems with patients absconding over the perimeter fence of the garden area,

...until Roller Barrier was installed along the top of the fence.



Bespoke Anti-ligature Solution

Keen to use Roller Barrier, this secure medical facility was concerned that it may introduce ligature points.

The problem was solved by adding stainless steel undertrays to the Roller Runs as well as producing special end fixings.



Prison Solutions

The ledge above the cell doors in this prison proved problematic when the occasional prisoner decided to take refuge on it, so Roller Barrier was installed to prevent access.

White cups were chosen for the installation, to ensure that the barrier was not viewed as a threat by the inmates.

Bespoke Roller Barrier products such as Roller Shield, have been developed with HM Prisons to assist in managing incidents arising from disruptive prisoners



Protecting notice boards & signage

This notice board (at a station in New Zealand) was frequently used as a climbing frame until protected with Roller Barrier.

...the product was also used to stop youths from climbing onto the flat roof of the ticket office at the station.



A quick guide to the Components

There are 3 main components of the Roller Barrier system:

- The special Roller Cups,
- The central shaft onto which they thread, and
- The mounting brackets which fix the shaft and cups in position to protect the wall, fence, flat roof, etc.

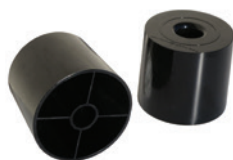
The Roller Cups

The Cups are manufactured from robust Polycarbonate (an engineering grade polymer), and are designed to be too big to allow a hand hold. They rotate independently on the Central Shaft, to form an unstable and ungrippable barrier.

Virtually unbreakable, the Cups are designed to withstand blows or other physical attack, as well as being protected against fire risk and UV degradation.

Available from stock in black or green, the Cups can be manufactured in any standard RAL colour by special order.

Being conscious of environmental issues and to assist councils and other organisations to reduce their carbon footprint, wherever possible, Roller Cups are manufactured from high quality recycled polycarbonate.



The Central Shaft

The Cups thread onto the Central Shaft like threading cotton reels onto a knitting needle to form the unstable barrier. The shaft is therefore a core element of the system and is manufactured from high quality, thick wall extruded aluminium.

Supplied in two metre lengths, shafts can quickly and easily be joined with the special joining spigots, to form a longer continuous installation run, or cut to a shorter length as needed.

For each installed run of Roller Barrier, the Shaft must be “Terminated” at each end of the run to prevent unauthorised removal of the cups. This is quick and easy, and there’s even a choice of our special Collar and End Cap pack, or Cross Bolt & Security Shear Nut pack to make life simple.



Collar & End Cap



Cross Bolt & Shear Nut

Mounting Brackets



The mounting brackets hold the Central Shaft and Roller Cups in the desired position to protect the vulnerable area. Typically, they will be fixed to walls, fences, gates or a building fascia, etc.

Whether you are looking to use single, double or triple row Roller Barrier, you are almost certain to find stock brackets to suit your needs, but for those odd situations where there is a special requirement, we can easily manufacture bespoke brackets, so you'll never be stuck for a solution

Our stock products also include items such as bracing plates to aid the installation of Roller Barrier onto steel mesh fencing such as Euroguard fence or 358 type anti-climb mesh.

Manufactured as standard from steel plate with a robust weather resistant, galvanised finish, brackets can as an option be manufactured in stainless steel and / or where required, also be overpainted with a durable baked on powder coat paint finish to blend with surroundings.

Here are a few examples of our popular stock brackets (contact your local distributor or visit the Roller Barrier website; www.rollerbarrier.com - for details of the full range of brackets, accessories and options).



The Universal Bracket



Straight Twist Bracket



Cranked Bracket



Extended Fascia Bracket



Fence Top Bracket



Straight Bracket



Alley Bracket



Adjustable Bracket

Accessories

Fixings

Roller Barrier is supplied as standard without mounting fixings, as the type of fixing required will depend on the type of material and substrate that the fixing will be installed into (i.e. brick, masonry, wooden or steel fence or gate, etc).

We do however stock a range of fixing nuts, bolts and screws (including security fixings) which are available to purchase separately.

Our Fast-Fix masonry fixings will speed up your installation,




Fast Fix Masonry Fixings

Warning Signs


It is always a good idea to install warning signs where any anti-climb product is installed and in some cases, may be a legal requirement. Our range of stock signs is available with a choice of size, text and material.




For more detailed information, see our **Selecting and Installing Your Roller Barrier System.**



Selecting & installing your Roller Barrier System
The Non-Aggressive Anti-climb System of choice.





**ROLLER
BARRIER**

Product Development, Performance & Warranty

Product Evolution & Development

Designed for simple integration with new build structures and buildings, or quick and easy retro fitting to existing buildings, walls, or other structures, the Roller Barrier anti-climb system incorporates many different components including; mounting brackets, support shafts, and various types of fixing in addition to the key component which is the special Roller Barrier Cup.

Roller Barrier Cups are manufactured primarily from tough polycarbonate material (an engineering polymer), combined with a number of additional component elements added at point of manufacture, to provide protection against issues such as UV degradation, flame retardancy, etc.

In 2007 significant investment in new tooling to incorporate a number of small but important design changes, coupled with refinement of the mix of component elements used in production, led to an improvement in overall product performance as anticipated.

Following this, the sale of Roller Barrier was extended to include overseas as well as UK customers.

Canadian and American customers were among early overseas users of the system, with subsequent peer to peer group recommendations leading to further sales. And it did not take long for users from other countries including Australia and New Zealand to join the growing ranks of happy customers.

Expected Lifespan / Warranty

The Polycarbonate family of polymers are engineered for hostile environments and are ideally suited for the demands that the Roller Cup encounters, but as with all Polymer materials, some degradation is inevitable after years of exposure to the elements when used in external locations.

Whilst it is difficult to accurately predict the expected operational life of the polycarbonate Roller Barrier Cups, systems installed at locations in the UK over 15 years ago (from 2003) are still in use protecting sites and showing no sign of having reached the end of their useful life.

The Roller Cups come with a 5 Year Manufacturers Warranty against structural failure in normal use, however are expected to deliver an operational life in excess of 15 years.

Physical Attack

By design, Roller Barrier Cups feature a relatively thick outer wall for a polycarbonate component, which along with a clever internal support structure helps to protect the Cups against physical attack, such as hammer blows, etc.

Combustion / Fire Resistance

Polycarbonate will withstand use in high heat environments, which is why it is often used on or around motor housings or other potentially hot surfaces. Its natural self-extinguishing properties are enhanced in the Roller Barrier product by the introduction of a special additive at the point of moulding the cup.

Roller Barrier is therefore not a fire hazard. When exposed to the intensity of a blowtorch flame for instance, the polycarbonate will glow and begin to burn away, however the instant that the flame is withdrawn, the area attacked, immediately self-extinguishes.

Protection against UV degradation

When considering what level of UV protection is required, there are two aspects to consider, firstly latitudinal location (i.e. distance from the equator) and secondly operational life expectation.

In simple terms, Northern Hemisphere latitudinal location is broken down into three general location classifications (with a rough guide to area of latitude covered by each). These classifications are mirrored in the Southern Hemisphere;

- Tropical Location (0-25 degrees north or south from the equator)
- Southern European (26-40 degrees north or south from the equator)
- Northern European (41-60 degrees north or south from the equator)

At 49°N Latitude, the UK (birthplace of Roller Barrier) falls firmly within the Northern European Classification, however, in view of the ever-threatened challenges associated with Climate Change and / or Global Warming, UV protection for Roller Barrier has been enhanced to protect to Southern European standards.

By introducing protection for Roller Barrier to Southern European Standards, its suitability and use has been extended to a wide range of locations outside of the UK, with established installations in Europe, the USA & Canada in the Northern Hemisphere, and Australia & New Zealand in the Southern Hemisphere.

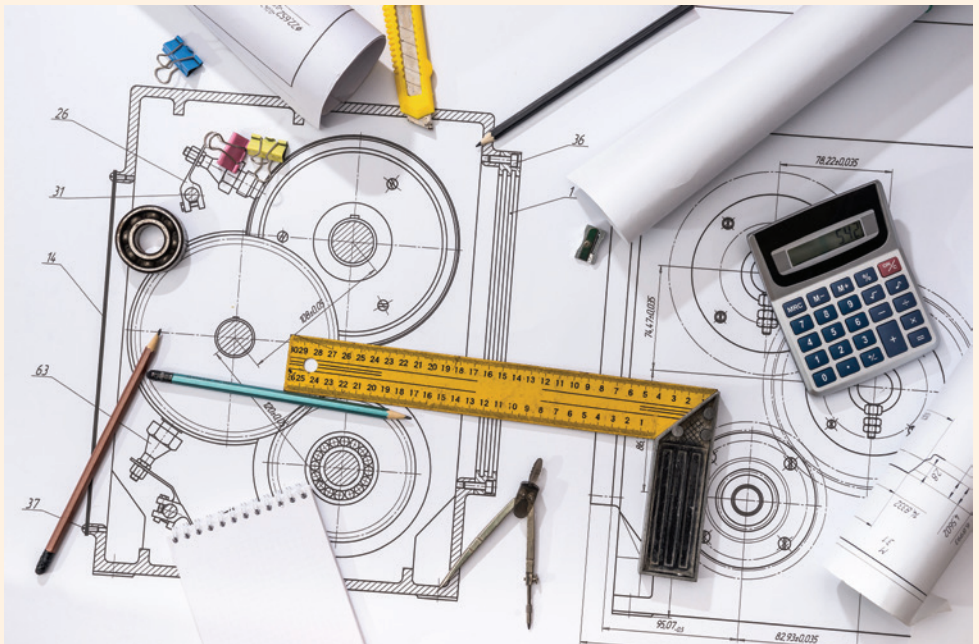
Two separate UV protective elements are added to the mix at time of moulding the cups, one to protect the colour, the other to protect the polymer material itself.

In some locations, long exposure to high levels of UV can cause a degree of surface oxidation and some colour fading. This is however a surface condition that is likely to be restricted to no more than the outer 5% depth of the exposed wall surface and will have no significant impact on the structural integrity of the product.

Specialist Production

In addition to the use of costly high precision moulds, Roller Barrier cups are produced in a State-of-the-Art Manufacturing Plant. The manufacturing plant and production fall under the umbrella of the international quality system BS. EN.ISO 9001:2015.

Manufacturing is undertaken by a highly experienced, specialist production team, working to strict quality controls and tight tolerances, encompassing; component mix, moulding temperature and pressure, as well as moulding and cooling time among other issues.

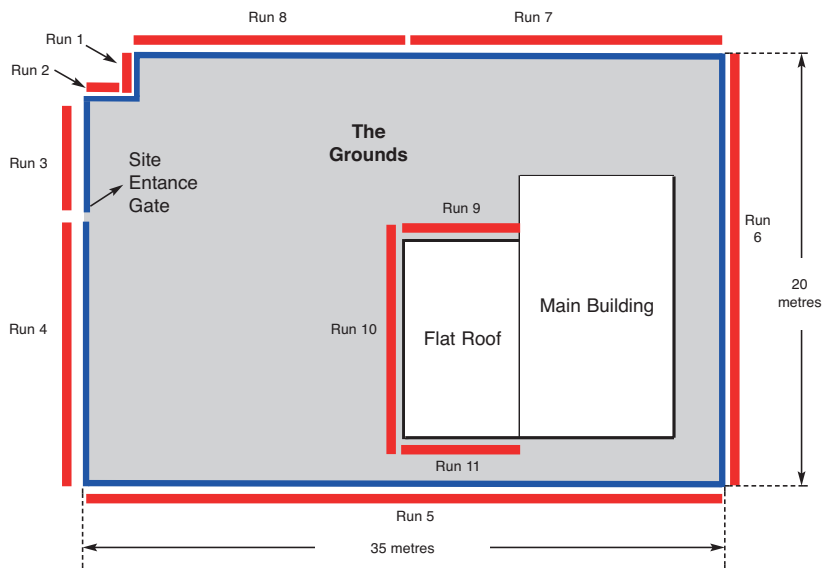


How much Roller Barrier do you need?

Calculating how much you need is quick and easy using a site plan or sketch, see the example below.

Here’s how a site plan will help you to easily work out how much Roller Barrier you need

In this example, the requirement as specified, is to protect all perimeter walls, gates and fences, as well as the low flat roof to the front of the main building. The Roller Barrier runs are shown in Red - The “Site Dimensions” are approximately 20 x 35 metres.



Run No.	Length in Metres	Run Type	Fixed to	Comments
1	2	single row	wall top	-
2	1	single row	wall top	-
3	4	single row	gate top	Steel gate (box section top)
4	14	single row	wall top	-
5	35	double row	wall top	-
6	20	single row	security fence	3 metre high Euroguard type fence
7	15	single row	security fence	3 metre high Euroguard type fence
8	19	single row	security fence	2 metre high Euroguard type fence
9	7	single row	building fascia	-
10	9	single row	building fascia	-
11	7	single row	building fascia	-
Total	133 metres			

We can see from this that the **Total Linear length** required = **133 metres** ...of which 35 metres is a double row requirement (for which you will need to order extra components, such as Shafts, Roller Cups, etc.)

Here are some of the alternative Anti-climb products currently available



Developed and proven in the UK.

Roller Barrier® is now installed in countries from Canada and USA to Australia and New Zealand - where users include:

- Schools & Pupil Referral Centres
- Children Centres & Play Areas
- Hospitals
- Psychiatric & Secure Medical Facilities
- Prisons & Young Offender Institutions
- Historic & Public Buildings
- Railway Stations & Trackside Gates & Fences

Roller Barrier

The non-aggressive anti-climb system of choice

Safe, effective, unobtrusive and maintenance free.

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