

What Are Floor Mounted Posts?

Website reference guide for barriers, gates, bollards and other surface-mounted steel posts

What does 'floor mounted' mean?

A **floor mounted post** is designed to be fixed onto an existing solid surface rather than installed into an excavated foundation. The post will typically have a steel **base plate** welded or otherwise secured to its lower end. The base plate contains fixing holes so that suitable anchors can be used to secure the post to the supporting surface.

In simple terms: floor mounted means the post sits *on top of* the finished surface and is secured through a base plate, rather than having a section of the post buried in the ground.

Other names you may see

Floor mounted posts may also be described as **bolt down**, **base plated**, **surface mounted** or **surface fixed** posts. The exact terminology varies between products and manufacturers, but these terms generally describe a post that is anchored to a suitable finished surface.

Where are floor mounted posts used?

Floor mounted posts are commonly used for **height restriction barriers**, **manual swing gates**, **fixed bollards**, **protective posts**, **pedestrian barriers** and **vehicle barrier systems** where a suitable concrete slab or foundation is already available. They can be useful in car parks, service yards, warehouses, industrial premises and other hard-standing areas.

How does a floor mounted post work?

The base plate spreads the connection over the fixing points and allows the post to be anchored to the supporting structure. The performance of the installation therefore depends not only on the post and base plate, but also on the **anchors and the condition, thickness and strength of the substrate** into which they are fixed.

Floor mounted vs root fixed

Floor Mounted / Bolt Down	Root Fixed
Post remains above finished ground level	Post extends below finished ground level
Normally fitted with a base plate	Normally has an extended below-ground root
Anchored to a suitable solid surface	Set into an excavated concrete foundation
No post hole required where suitable concrete exists	Requires excavation or core drilling
Fixings remain accessible at surface level	Foundation surrounds the buried section of post

Why choose floor mounted posts?

Floor mounting can avoid excavation where a suitable structural concrete surface already exists. Installation can also be more straightforward because the base plate and fixings remain accessible. Depending on the product and installation, this can make future removal or replacement easier than with a permanently concreted-in post.

The supporting surface is important

A floor mounted post should only be fixed to a surface capable of supporting the post and the loads placed upon it. **Tarmac, block paving, thin screed or an unknown slab should not automatically be assumed to be suitable.** Where necessary, a purpose-made concrete foundation may be required. The suitability of the substrate should be checked before installation.

What fixings are required?

There is no single fixing size suitable for every floor mounted post. The correct anchors depend on the product, base plate, hole size, concrete specification, slab thickness, edge distances and loads involved. Fixings should therefore be selected to suit the individual product and site conditions, following the relevant installation and anchor manufacturer's requirements.

Important - floor mounted does not automatically mean crash rated

Floor mounted describes the **method of fixing**. It does not, by itself, mean that a bollard, barrier, gate or post is crash tested or certified for vehicle impact. Any impact or security rating should only be stated where the complete product, fixings and supporting foundation arrangement have the appropriate test evidence or certification.

Short wording for product pages

Floor Mounted: The posts are supplied with base plates for securing to a suitable solid surface using appropriate anchor fixings. This installation method allows the posts to be mounted above finished ground level without requiring the post itself to be concreted into the ground.

Alternative FAQ wording

What does floor mounted mean?

Floor mounted means the post is installed onto a suitable solid surface using a base plate and appropriate anchor fixings. Unlike a root fixed post, no section of the post is buried below ground level. The existing surface or foundation must be suitable for the loads and fixings required.

Reference note

This guide provides a general explanation of floor mounted posts for supporting website information. Always refer to the individual product specification and installation requirements for base plate dimensions, anchor type, fixing quantities and minimum foundation or substrate requirements.