



# TECHNICAL SPECIFICATION

## Post & Wire

### MR – MANUFACTURER

PestFix Post & Wire is a discreet, low-visual-impact solution. PestFix Post & Wire is ideal for use on high-profile buildings and structures, where effectiveness versus appearance is a factor that must be carefully considered.

Once installed, PestFix Post & Wire can be quickly refurbished after building re-decorations or alterations, without having to remove the entire system. Wires, springs and crimps can be demounted, prior to works commencing then re-instated or replaced, at minimal expense to the owner, once the maintenance works are complete.

PestFix Post & Wire's all stainless steel construction means that it will last in excess of 10 years outdoors when correctly installed, as per the PestFix installation instructions by competent and trained personnel.

The material costs per linear meter for PestFix Post & Wire installations are generally much less than other linear bird control systems.

PestFix Post & Wire systems can be adapted to suit a range of structural and architectural features using specialist mounting hardware available through PestFix.

### DAD - DISADVANTAGES

PestFix Post & Wire systems are not appropriate for combating high-pressure bird infestations, where birds are roosting overnight, or nesting. PestFix Post & Wire can be a complex system to install when tackling intricate features on a building. Appropriate skills and hands-on experience are required. If you are not experienced and require training we can supply you with installation instructions and telephone technical support, explaining the basic principals and rules of how to plan and execute a PestFix Post & Wire installation.

PestFix Post & Wire, whilst cost effective, per linear metre of protection, in terms of materials, can be a time consuming exercise to install. This is due to the amount of drilling or bonding required, making it slower to install than some of our other linear protection products and hence more expensive in terms of labour, than other bird control systems.

PestFix Post & Wire is highly susceptible to damage by persons needing access to the protected areas. For example; window cleaners, painters & decorators, scaffolders and maintenance personnel.

PestFix Post & Wire is not suitable for use on low-level applications under 1.8m from ground level, nor on handrails, where people could come into contact with the system as a result of an inadvertent trip or fall, or deliberately to vandalise the system.

### UA – USES, APPLICATIONS

PestFix Post & Wire can be used against Pigeons and Seagulls to cure light and medium bird pressure infestations (surface mount systems should only be used on light bird pressure infestations). It can also be used against Corvids (Crows, Ravens, Jackdaws, Rooks and Magpies).

PestFix Post & Wire is ideal for use on ledges, parapets, signs, beams, parapet wall copings, pipes, steel beams, trusses, gutters, roof ridges and many other linear architectural or structural features that may require protection from infesting birds.

It provides the perfect solution for ornate building façades, corporate signage or ridgelines where the anti-perch system's visual impact is an important factor to be taken into consideration. It is also a very economical method to use on deep ledges, parapet copings and sills, where anti-perch spikes may be too costly, due to the high number of parallel rows of spike strips required.

### AI – ASSEMBLY, INSTRUCTIONS

The basic concept of the PestFix Post & Wire system is to place thin stainless steel wires, tensioned with springs, just above the ledge or other feature used by the birds. The wires present a physical barrier to the birds' normal landing behaviour. Even if they do find a way to land on top of the wires, the unstable feel of the spring-loaded wires will deter all but the most persistent birds.

The wires are held in position, usually by vertically-mounted stainless steel posts, but many other fittings have been developed to enable the system to be used in a multitude of situations. The components used in the systems for Pigeons and Seagulls differ, in that larger and more robust components are required for Seagulls.

For information on post sizes and distances between posts, please see table overleaf.

For detailed installation guidelines please refer to our installation manual, which can be downloaded on [www.pestfix.co.uk](http://www.pestfix.co.uk) or contact us for a hard copy.

<b>MASONRY &amp; TIMBER</b>	<b>PIGEONS</b>	<b>SEAGULLS</b>
Post Anchorage Method	PestFix 25mm Masonry Rivet (PW209 or PW210) or directly into timber with 4mm X 20mm hole	PestFix 25mm Masonry Rivet (PW209 or PW210) or directly into timber with 4mm X 20mm hole
Height of front / leading edge wire	90mm	160mm
Post size to be used on leading edge	115mm X 4mm dia. single head (PW204) for low-pressure. 130mm X 4mm dia. double head (PW205) for medium pressure	180mm X 4mm dia. single head (PW226)
Height of wire in subsequent rows	110mm	160mm
Post size to be used on subsequent rows	130mm X 4mm dia. single head. (PW214)	180mm X 4mm single head (PW226)
Linear distance between posts	Max 1.5m apart, can be less, but use a min of one spring per 1.5m run	Max 3m apart, can be closer, but use a min of one spring per 3m run
Distance between parallel rows of wire	35mm for second row then 65mm max for subsequent rows	100mm max
Spring type	PestFix Standard Spring (PW207)	PestFix Micro Spring (PW227)
Wire type	0.45mm dia. Plastic coated to 0.70mm dia., breaking load 24.5 kg (PW200, PW201, PW202 & PW203)	0.96mm dia. non-coated, breaking load 93kg. (PW225, PW249, PW250 & PW251)
Crimp type	PestFix Nickle Plated Crimps (PW208)	PestFix 1mm Copper Crimps (PW228)
Crimp tool	PestFix Post & Wire Crimp & Cut Tool (PW241)	Ratchet Crimp Tool (NT118 or NT143)

<b>SURFACE MOUNTING</b>	<b>PIGEONS</b>	<b>SEAGULLS</b>
Post Anchorage Method	PestFix Surface Mount Base (PW219, PW220, PW221 & PW222) can be glued or screwed into position	PestFix Surface Mount Base (PW219, PW220, PW221 & PW222) can be glued or screwed into position
Height of front / leading edge wire	90mm	150mm
Post size to be used on leading edge	90mm X 4mm dia. single head (PW215) for low-pressure. Do not use double-head posts with surface mount bases	150mm x 4mm dia. single head (PW231)
Height of wire in subsequent rows	Alternate between 90mm & 115mm	150mm
Post size to be used on subsequent rows	Alternate between 90mm X 4mm dia. single head (PW215) and 110mm X 4mm dia. single head. (PW204)	150mm x 4mm single head (PW231)
Linear distance between posts	Max 1.5m apart, can be closer, but use a min of one spring per 1.5m run. Parallel posts must not line-up and should be staggered	Max 3m apart, can be closer, but use a min of one spring per 3m run. Parallel posts must not line-up and should be staggered
Distance between parallel rows of wire	35mm for second row then 65mm max for subsequent rows	100mm max
Spring type	PestFix Standard Spring (PW207)	PestFix Micro Spring (PW227)
Wire type	0.45mm dia. Plastic coated to 0.70mm dia., breaking load 24.5 kg (PW200, PW201, PW202 & PW203)	0.96mm dia. non-coated, breaking load 93kg. (PW225, PW249, PW250 & PW251)
Crimp type	PestFix Nickle Plated Crimps (PW208)	PestFix 1mm Copper Crimps (PW228)
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**MF – MATERIALS, FINISHES**

All components of the PestFix Post & Wire system are made from grade 304 stainless steel, unless otherwise stated. Exceptions include the nylon masonry rivets, surface-mount bases, nickel-plated crimps and copper ferrules.

**TS – TECHNICAL SUPPORT**

PestFix staff are all fully trained to provide full telephone support and are available Monday - Friday 8am – 6pm.

**SPECIFICATION GUIDELINES**

**GENERAL**

**1.1 DESCRIPTION**

- 1.1.1 Install PestFix Post & Wire on exposed ledges, sills, parapets, ridge-lines or other linear structural / architectural feature, where birds perch but do not nest, to prevent perching and damage from bird droppings.

**1.2 QUALITY ASSURANCE**

- 1.2.1 Obtain technical literature from supplier, telephone consultation and plan/photograph evaluation.
- 1.2.2 Utilise PestFix approved installers (please call for details), or other certified installation companies in your area who carry the proper insurance coverage.

**1.3 SUBMITTALS**

- 1.3.1 Submit manufacturer’s samples and other descriptive material

**1.4 PRODUCT HANDLING**

- 1.4.1 Protect PestFix Post & Wire from damage before, during and after installation.
- 1.4.2 If damage occurs to the PestFix Post & Wire components, make all replacements immediately.

**PRODUCTS**

**2.1 PESTFIX POST & WIRE SYSTEM COMPONENTS**

- 2.2.1 PestFix Post & Wire Posts
- 2.2.2 PestFix Post & Wire Post Anchors
- 2.2.3 PestFix Post & Wire Stainless Steel Wire
- 2.2.4 PestFix Post & Wire Retaining Crimps / Ferrules
- 2.2.5 Specialist PestFix Post & Wire Mounting Brackets & Hardware
- 2.2.6 PestFix Post & Wire System Specialist Tools

**MATERIAL**

**PESTFIX POST & WIRE POSTS, SPRINGS, BRACKETS AND CLAMPS**

Material: 304 Stainless Steel.

Post Heights: Posts available in 90mm, 110mm, 130mm, 150mm, 160mm, 180mm all in 4mm diameter.

Wire Construction: 1x7 ply 0.96mm diameter (PW225, PW249, PW250 & PW251) or 1x7 ply 0.45mm diameter with a nylon UV protective sheath coating to 0.76mm diameter overall (PW200, PW201, PW202 & PW203). Both wire formats are available in the following sales units 50m, 100m, 250m and 500m.

**2.3 MOUNTING SYSTEMS**

- 2.3.1 Concrete, stone or brick by drilling into the substrate. Insert nylon PestFix Masonry Rivet (PW209 or PW210) into a 6.5mm diameter hole, 25mm deep. Hammer the post into this fitting so that 20mm of the post is contained inside the masonry rivet.
- 2.3.2 Structural steel, sheet metal, leadwork, PVC or concrete, stone or brick where no holes are allowed to be formed in the substrate. Use PestFix Surface Mount Bases (PW219, PW220, PW221 & PW222). Soudal SiliRub® N neutral-cure, low-modulus silicone adhesive (BS327) or Soudal FixAll High Tack SMX® Hybrid Polymer Adhesive (BS329) or Soudal FixAll Turbo SMX® Hybrid Polymer Adhesive (BS338). Prepare surface to be adhered to meticulously using adhesive as a primer on porous substrates or Soudal Surface Activator (BS365) on non-porous substrates. Alternatively PestFix surface-mount bases can be mechanically fixed may be mechanically fixed where piercing of substrate is not considered to be a problem.
- 2.3.3 Rainwater collection gutters (Pigeons only). Use PestFix Gutter Clamp Posts available in either single or double-head format (PW216 & PW217). Clamp the post to the leading edge of the gutter at max. 1.5m intervals.
- 2.3.4 Structural steel I-section and C-section beam flanges. Use PestFix Beam Clamp Posts available in either 95mm or 150mm single head format (PW218 & PW252). Clamp the post to the leading edge of the beam flange at max 1.5m intervals. For flanges that are deeper than 65mm use additional rows of PestFix Post & Wire mounted on Surface Mount Bases as per 2.3.2.
- 2.3.5 Roof ridgelines. Use PestFix Ridge Brackets at max 3m spacing’s for Seagulls or max. 1.5m spacing for Pigeons. Ridge brackets are available in either half-round or triangular ridge profile formats to suit different ridge-tile cross sectional profiles. Ridge brackets may be bonded in position using Soudal SiliRub® N neutral-cure, low-modulus silicone adhesive (BS327) or Soudal FixAll High Tack SMX®

Hybrid Polymer Adhesive (BS329) or Soudal FixAll Turbo SMX® Hybrid Polymer Adhesive (BS338). Prepare surface to be adhered to meticulously using adhesive as a primer on porous substrates or Soudal Surface Activator (BS365) on non-porous substrates. Alternatively ridge brackets may be mechanically fixed to ridge tile using screws and red wall plugs.

- 2.3.6 Deep ledges over 260mm. Use PestFix Drilled Rods available in a range of 4 – 8 holes at 65mm centres (PW307, PW308, PW309, PW310 & PW311) to protect ledges up to 520mm deep without having to drill multiple holes. Drilled Rods require a mounting hole 6mm x 50mm in the wall behind the ledge at least 90mm above the ledge.

**With all fixing methods a counter-tension fixing arrangement should be included at each end of each row. See PestFix installation instructions for more details.**

## EXECUTION

### 3.1 EXAMINATION

- 3.1.1 Examine installation area. Notify architect of detrimental work conditions or unsound substrates to be fixed to.
- 3.1.2 Do not proceed until conditions are corrected.

### 3.2 SURFACE PREPARATION

- 3.2.1 Mounting surfaces / substrates must be sound clean, dry and free of peeling paint, rust, bird droppings or other debris. Bird droppings must be removed in a safe manner using a suitable disinfectant i.e. PX Ornikill or Jeyes Fluid.
- 3.2.2 Remove, adjust or repair articles that may damage the PestFix Post & Wire system after installation, such as tree limbs and loose parts of the building.

### 3.3 INSTALLATION

- 3.3.1 Install PestFix Post & Wire as recommended in the PestFix installation instructions, which can be downloaded from [www.pestfix.co.uk](http://www.pestfix.co.uk).

The first row of the wire should be no more than 20mm away from the leading edge of the feature being protected.

The outermost row of posts should be bent outwards so that they, and therefore the wire, overhang the leading edge of the surface being protected by at least 10mm. This should be accomplished by bending the posts once they have been inserted into the anchor rivets. Take great care not to damage the anchoring system whilst doing this.

- 3.3.2 The complete ledge or feature should be protected, not just the outer perimeter. PestFix Post & Wire is an anti-landing device, not a barrier. A second parallel row of posts should be placed 35mm back from the front row, and subsequent parallel rows should be placed no more than 65mm apart to fully cover the ledge. The linear distance between posts should be no more than 1.5m for Pigeons and 3m for Seagulls.

- 3.3.3 At every post there should be a spring and termination of the wire section using crimps or ferrules. The next section simply continues from the same post.

- 3.3.4 For installations using multiple parallel runs of wire the posts should be staggered on neighbouring runs to avoid birds straddling multiple posts in alignment with each other.

### 3.4 INSPECTION

- 3.4.1 Visually inspect the PestFix Post & Wire for loose wires or other problems related to poor installation or surface preparation.
- 3.4.2 Repair as necessary, immediately.

### OM – OPERATION, MAINTENANCE

If the PestFix Post & Wire is installed as per PestFix's installation instructions and this technical specification, the product should be virtually maintenance free. Nest building is a characteristic of heavy-pressure sites and if the birds attempt to nest upon the PestFix Post & Wire it has been mis-specified and should be correctly specified with a high-pressure solution. See [www.pestfix.co.uk](http://www.pestfix.co.uk) for other alternatives for heavy pressure areas or contact us.