the complete solution

...to support building services and access equipment on a flat roof

free 48 hr design service

www.bigfootsystems.co.uk
The complete solution to supporting building services and access equipment on a flat roof

Big Foot Systems are designed to support anything that is installed on a flat roof. This creates a safe and secure support for all air conditioning and refrigeration roof plant and associated services.

Big Foot Systems have been used on countless prestigious projects including BAA Heathrow Airport, Leatherhead Police HQ, University of Leeds, HSBC Leicester and the TTC Hotel Dublin.

The main advantages of using the Big Foot System are:

- **Reduced risk of leaks**
  Does not penetrate the roof surface, removing any difficult detailing around concrete structures

- **Reduces the cost of the roofing installation**
  Removes concrete obstacles, creating a clear roof area therefore reducing complex, timely and expensive detailing

- **No equipment removal**
  No need to remove roof equipment during roof repairs or resurfacing

- **Improved aesthetics**
  Neat and tidy solution for all roof equipment and associated services

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Guide to Big Foot Systems

There are no limits to what can be supported with a Big Foot System. Most simple installations can be successfully achieved using our range of standard frames.

On more complex projects we offer a custom frame design service. Our design team simply requires the weights and dimensions of the equipment with a roof plan if available, to produce a quotation and advise weight loadings. In addition, custom H Frames can be manufactured for heavy duty pipe, duct and cable supports.

Due to the flexible nature of the Big Foot System, it is possible to change elements of the frame design during or even after the completion of the project.

The growth in single ply roofing membranes has driven the need for free standing roofing support systems. Big Foot Systems have continued to improve the product range and technical support to meet the challenges of modern construction techniques.

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The growth in single ply roofing membranes has driven the need for free standing roofing support systems. Big Foot Systems have continued to improve the product range and technical support to meet the challenges of modern construction techniques.
Benefits

- SETS THE STANDARD!
- 48 HOUR DESIGN SERVICE – LET US DO THE WORK
- SPREADS THE WEIGHT OF THE SUPPORTED PLANT
- EACH FOOT CAN BE REMOVED INDIVIDUALLY TO ALLOW EASY ACCESS TO THE ROOF SURFACE DURING RE-ROOFING OR REFURBISHMENT WITHOUT REMOVING EQUIPMENT
- NO PENETRATION OF THE WATERPROOF MEMBRANE, ELIMINATING ANY DIFFICULT DETAILING, THEREFORE REDUCING THE RISK OFLeaks
- COST EFFECTIVE
- COMPLETE ON-SITE FLEXIBILITY BOTH DURING AND AFTER INSTALLATION
- FLATPACK SYSTEM FOR EASY TRANSPORT
- HOT DIPPED GALVANIZED METALWORK
- ELIMINATES THE RISK TO ROOF GUARANTEE

RE-ROOFING
The Big Foot System legs may be removed individually for re-roofing/ refurbishment, without removing the equipment.

HEIGHT ADJUSTMENT
The legs incorporate over 100mm (4in) of vertical height adjustment, to take up variations in the roof. (300mm (1ft): stepped roof option).

CONDENSER CLAMPS
The repositionable clamps locate on both sides of the cross-bars, locking down onto the feet of the condenser units as they are tightened.

LINEAR ADJUSTMENT
The cross-bars which support the condenser units can slide along the plain bars into the position required, then are locked securely in place.

LEG & BRACKET POSITIONING
The leg & bracket are usually positioned outside the framework, but can be positioned inside if there is an obstruction.

TOTAL LEG HEIGHT: 375mm
(575mm/1.9ft: stepped roof option)

HEIGHT ADJUSTMENT:
245mm – 350mm (0.8ft – 1.1ft): floor to framework
(245mm – 550mm/0.8ft – 1.8ft: stepped roof option)

IMPORTANT: The purchaser or installer of these products must satisfy themselves that the roof structure is of sufficient strength to take the combined weight of the Big Foot System and units.
Custom Frameworks

Tailored to meet your every need.

With a plan of your roof and dimensions / weights of the plant, we can specify complete Big Foot frameworks to support up to 10 tons. The system is completely flexible – we can change any part of the design of the frame at any time! We can increase or reduce the weight loading (kN/m²) by changing the number of leg assemblies on the frame.

The Big Foot bases are made of Glass filled Nylon with UV protection. An independent anti-vibration mat is provided for each foot. All metalwork is hot dip galvanized for all weather protection.

- SITE VISIT
- 48 HRS DESIGN SERVICE
- DETAILED PROJECT COSTINGS

Our system allows for each leg assembly to be removed individually while the roof surface is maintained or even re-roofed without the need to remove equipment.

Big Foot Systems set the standard of installation on site, providing the consultant with a method of installation which is quick, clean, practical and aesthetically pleasing.

All we need is a plan of your roof, unit weights and dimensions. We will do the rest!
Standard Frameworks

There are three basic standard frameworks available in 1m, 2m and 3m (3.3ft, 6.6ft and 9.8ft) versions.

For flexibility, all leg assemblies and cross-bars on the standard frameworks slide up and down to the required location (see page 7).

The standard frameworks come with 305mm² (1ft²) feet which are provided with anti-vibration mats to fit underneath. The frame is constructed from 40mm x 40mm (1.6in x 1.6in) standard box section.

For heavier loads larger 450mm² (1.5ft²) feet are available and heavy duty 50mm x 50mm (2in x 2in) box section for some components.

2 Unit System Framework – Part no. B6075
4 Unit System Framework – Part no. B6077
6 Unit System Framework – Part no. B6078
Multi Foot Support System

As part of the expanding Big Foot range, the Multi Foot is designed to be a multi-purpose ductwork, cable and pipework support.

The Multi Foot is an extremely versatile and cost effective one-piece support available in two sizes with optional AV mats.

**SMALL:** 400 x 180 x 95mm (1.3 x 0.6 x 0.3ft)

**LARGE:** 600 x 220 x 95mm (2 x 0.7 x 0.3ft)

Multi Foot can be used to support small and large pipework systems, cable trays, ductwork or any combination of these.

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H Frame Support System

The H Frame Set is a quick, versatile and economical solution for supporting pipework, ductwork, cable trays or any combination of these. You provide your own unistrut, keeping the duct and pipe installations low cost and totally flexible by fabricating the frameworks on-site.

Using inserts, the feet adapt to accommodate 41mm x 41mm (1-5/8in) off-the-shelf unistrut. The majority of installations require 305mm (1ft) H Frames but where a greater load spread is required 450mm (1.5ft) H Frames are also available.

**SMALL FEET:** 305 x 305 x 75mm (1 x 1 x 0.25ft)

**LARGE FEET:** 450 x 450 x 100mm (1.48 x 1.48 x 0.33ft)

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Platforms

Simply fitted into the top of the Big Foot mouldings, these Platforms provide a versatile support system. Available with a plain top or with 2 or 4 sides, they have a central M10 threaded insert and are supplied in pairs with Big Feet and AV mats.

**FLAT PLATFORM**

- Useable area: 126 x 126mm (5 x 5in)
- 305mm² (1ft²) – Part no. B9098
- 450mm² (1.5ft²) – Part no. B9101

**2 SIDED PLATFORM**

- Useable area: 114 x 126mm (4.5 x 5in)
- 305mm² (1ft²) – Part no. B9099
- 450mm² (1.5ft²) – Part no. B9102

**4 SIDED PLATFORM**

- Useable area: 114 x 114mm (4.5 x 4.5in)
- 305mm² (1ft²) – Part no. B9100
- 450mm² (1.5ft²) – Part no. B9103

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**KIT INCLUDES:**

- 2 x feet
- 2 x AV mats
- 2 x unistrut inserts
- 2 x L-Brackets
- 4 x M10 bolts
- 4 x square channel nuts

**KIT DOES NOT INCLUDE UNISTRUT**
Fix-it Foot Support System

The 3 sizes of Fix-it Foot are the latest addition to the Big Foot support range. This foot has 40mm x 20mm (1.6in x 0.8in) aluminium channel recessed into the top face, allowing fixing of the services resting across the feet.

Recesses in the underside allow for small debris on the roof surface. The Fix-it Foot is made of durable recycled rubber, which offers built-in anti-vibration and makes it both an economical and environmentally responsible piece of kit!

Fix-it Foot Low

The smaller, lighter alternative to the existing Fix-it Foot range. The Fix-it Foot Low is suitable for supporting small pipe work systems, ductwork runs & cable trays. (Not recommended for small units)

3 SIZES AVAILABLE:
- FIX-IT FOOT 250 250 x 180 x 95mm (9.8 x 7.1 x 3.7in)
- FIX-IT FOOT 400 400 x 180 x 95mm (15.7 x 7.1 x 3.7in)
- FIX-IT FOOT 600 600 x 220 x 95mm (23.6 x 8.6 x 3.7in)

2 SIZES AVAILABLE:
- FIX-IT FOOT LOW 250 250 x 130 x 50mm (9.8 x 5.1 x 2in)
- FIX-IT FOOT LOW 400 400 x 130 x 50mm (15.8 x 5.1 x 2in)

Small Fix-it Foot with Channel – Part no. B6735
Medium Fix-it Foot with Channel – Part no. B6736
Large Fix-it Foot with Channel – Part no. B6737

Big Foot Systems takes no responsibility for the condition of the roof on which our equipment is to be used. You must ensure that the substrate on which the Big Foot is intended for use is structurally sound enough to take the weight and point loadings we have indicated.

All Big Foot products must be installed in line with the guarantees and recommendations of the manufacturer of the roofing system. The manufacturer of PVC membranes should advise on the susceptibility migration of plasticizers and specific recommendations should be adhered to so that the roof guarantee is not affected.