



## PRODUCT SPECIFICATION

**Manufacturer:** Big Foot Systems

**Product Name:** Bespoke Frames



### Product Summary

AHU, Chillers and condensers support; light and heavy duty support frames

### Product Description

Big Foot Systems bespoke frames offer a free-standing support for units of any length and weight. Constructed to cater for lightweight and heavy duty systems from three sizes of box section; 40x40mm (1 37/64 x 1 37/64), 50x50mm (1 31/32 x 1 31/32) and 100x50mm (3 15/16 x 1 31/32). Frame width range from 900mm (35 7/16) to 3500mm (137 51/64).

This range of frames are kitted from standard componentry, simple to assemble, offering a solution where our standard frames may not be suitable. Developed to resist tipping and sliding up to a wind loading of 100mph.

### Features & Benefits

- Non penetrative load management.
- Cost effective, pre-fabricated support system.
- Versatile modular frameworks.
- Rubber crumb foot mat for roof finish protection.
- Quick to install, robust and secure.

### Standards

#### Constructed to:

- BS8000-4: Workmanship on building sites. Code of practice for waterproofing.
- BS6229: Code of practice for flat roofs with continuously supported coverings.
- Building Regulations (E & W) Part L: Conservation of Fuel and Power.
- BS EN 1850-1: Determination of visible defects.
- BS EN 1107-1: Flexible sheets for waterproofing. Determination of dimensional stability.

#### Metal framework:

- Hot dip galvanized carbon steel: BS EN 10219-1. Welding standard: BS EN ISO 15614-1.
- Galvanizing: BS EN ISO 1461.
- Salt mist testing: BS EN 60068-2-52.
- Test Kb severity 1.

#### Plastic Foot:

- Nylon 6 B601L 30% glass fibre filled.

### Product Reference

To request a bespoke quotation see short list of questions we ask below; return by email to [Technical@bigfootsupport.com](mailto:Technical@bigfootsupport.com) to ensure a quick and accurate quotation:

- Name / Site reference
- Due on site
- Roof layout / Unit manufacturers drawing
- Roof Build up and roof fall
- Clearance height / Height restrictions on site

### Design Considerations

#### Foot Pressure & UDL (Roof Load):

Allowable foot pressure and roof load will be subject to roof build-up, typically detailed by a structural engineer. Big Foot Systems work to a maximum foot pressure and UDL of 20kN/m<sup>2</sup> and 7.5kN/m<sup>2</sup> respectively.

#### Linear Adjustment:

Cross bar spacing are adjustable to accommodate various unit sizes.

#### Wind Loading:

Design dependent, suitable for wind exposed environments, up to wind speeds of 100mph.

#### Height Adjustability:

To suit several height requirements, there 3 variations in height available. Standard—adjustable between 295-400mm (11 39/64-15 3/4); Long Stud—adjustable between 295-620mm (11 39/64-24 13/32); Long Box— between 725-830mm (28 35/64-32 43/64).

#### Roof Surface:

Suitable for any roof surface including but not limited to PVC membrane, mastic asphalt, insulation and concrete roof finishes.

#### Working Conditions:

Suitable for internal or external applications in temperatures between -40°C to +80°C.

#### Marine Environment:

Salt mist test conducted in accordance with ASTM B117-11 to simulate an accelerated environmental test. The results validate the 10 year product guarantee issued by Big Foot Systems.

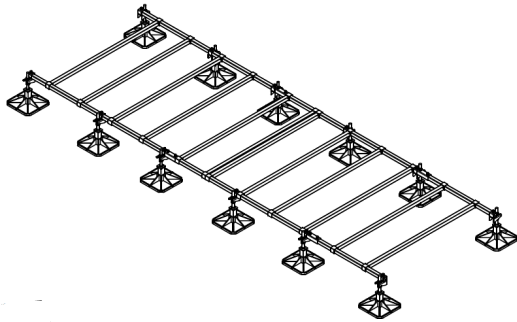
### Options

#### Foot Fleeces:

Recommended for use on PVC membrane and asphalt roof surfaces to prevent migration of plasticizers. B9156—305mm (12 1/64inches); B9157—450mm (17 23/32inches); B9415—600mm (23 5/8).

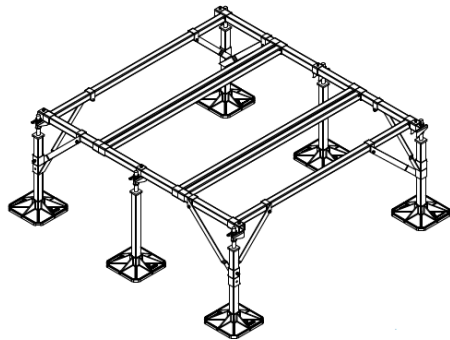
#### Angled Mats:

2.5 and 5 degrees angled mats available for 305mm and 450mm feet only, for use on roof fall up to 6 degrees. B9091—2.5° 305; B9092—5.0° 305; B9093—2.5° 450; B9094—5.0° 450 feet.



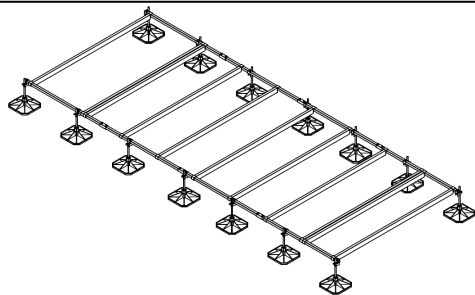
**40x40mm Box Section Variation Frames**

Crossbar Option		Height Adjustment Options			Foot Size Options	
mm	Inches	Description	mm	Inches	mm	Inches
900	35 7/16	Standard	295 - 400	11 39/64 - 15 3/4	305	12 1/64
1200	47 1/4	Long Stud	295 - 620	11 39/64 - 24 13/32	450	17 23/32
1500	59 1/16	Long Box	725 - 830	28 35/64 - 32 43/64	600	23 5/8



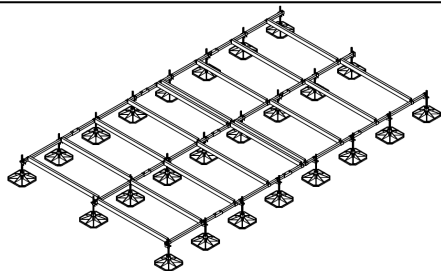
**50x50mm Box Section Variation Frames**

Crossbar Option		Height Adjustment Options			Foot Size Options	
mm	Inches	Description	mm	Inches	mm	Inches
1500	59 1/16	Standard	305 - 410	12 1/64 - 16 9/64	305	12 1/64
1700	66 59/64	Long Stud	305 - 630	12 1/64 - 24 51/64	450	17 23/32
1900	74 51/64	Long Box	735 - 840	28 15/16 - 32 5/64	600	23 5/8
2100	82 43/64					




**100x50mm Box Section Variation Frames**

Crossbar Option		Height Adjustment Options			Foot Size Options	
mm	Inches	Description	mm	Inches	mm	Inches
1600	62 63/64	Standard	305 - 410	12 1/64 - 16 9/64	305	12 1/64
1800	70 55/64	Long Stud	305 - 630	12 1/64 - 24 51/64	450	17 23/32
2000	78 47/64	Long Box	735 - 840	28 15/16 - 32 5/64	600	23 5/8



Bespoke Lattice Frame configuration available to suit units wider than 3.5m

2200	86 39/64	<p>Installation and application considerations should include health, safety and environmental needs, regulations and standards, codes of practice, climate conditions, installation location, product orientation, evaluation of the roof structure, composition, surface and condition, ancillary and complimentary products and materials. Big Foot Systems recommend that all rooftop products are handled and installed by suitably qualified persons. All scheme designs are based on the use of Big Foot Systems' products and materials only. Terms and conditions available on request</p>	<p>TITLE: Bespoke Frames Product Specification Sheet</p> <p>DWG No. BFT-BF.dwg</p> <p>THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF BIG FOOT SYSTEMS LIMITED</p>	
2400	94 31/64			
2600	102 23/64			
2800	110 15/64			
3000	118 7/64			
3500	137 51/64			