



## PRODUCT SPECIFICATION

**Manufacturer:** Big Foot Systems

**Product Name:** Plant Deck Frame



### Product Summary

Unique design enabling easy access to multiple units

### Product Description

#### Plant Deck Frame - Standard

Designed to facilitate multiple VRF/VRV installations with 1m wide non-slip GRP access walkway along the frame centre. Available from stock in 3 sizes; the wide base offers stability in high wind environments.

#### Plant Deck Frame - Bespoke / Custom

Bespoke Plant Deck support are configured from our standard componentry for units of any dimension, weight and access requirement. The Custom Plant Deck frame solution includes fabricated elements to suit where our standard componentry is not suitable.

#### Features/ benefits

- Cost effective, non-penetrative load management.
- Non-slip GRP or galvanised steel access walkway.
- Versatile modular frameworks with adjustable leg assemblies.
- Quick to install, robust and secure.

### Product Reference

To request a bespoke or custom plant deck frame quotation see short list of questions below; return by email to [Technical@bigfootsupport.com](mailto:Technical@bigfootsupport.com) to ensure a quick and an accurate quotation:

#### 1) Project:

- Name / Site reference
- Due on site

#### 2) Units:

- Wind protected or exposed
- Manufacturer's drawings / overall weights and dimensions

#### 3) Roof:

- Unit / Roof layout drawing
- Roof build up and roof fall
- Clearance height / Height restrictions on site

### Standards

- 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
- Plastic Foot: Nylon 6 B601L 30% glass fibre filled

### Metal Framework:

- Hot dip galvanized carbon steel: BS EN 10219-1. Welding standard: BS EN ISO 15614-1.
- Galvanizing: BS EN ISO 1461.
- Custom Fabrication Specification: BF-SPEC-050411.
- Cross Bar Specification: BF-SPEC-230610.
- Salt mist testing: BS EN 60068-2-52.

### 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>.

#### Design Load:

Design loads based upon maximum allowable deflection on cross members and allowable roof load, this includes a built-in factor of safety. Maximum allowable roof load should be checked with structural engineer. Design loads recommended by Big Foot should not be exceeded.

#### Wind Loading:

Suitable for wind exposed environments, up to wind speeds of 100mph.

#### Roof Surface:

Suitable for any roof surface including PVC membrane, mastic asphalt, insulation and concrete roofing.

#### Working Conditions:

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

#### Marine Environment:

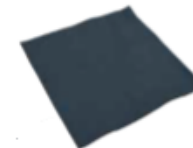
Salt mist test conducted in accordance with ASTM B117-11 to simulate an accelerated environmental test. The results validate the 10 year product guarantee issued by Big Foot Systems.

### 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 inches)



#### Angled Mats:

Recommended use on roof with up to 6 degree fall. Available in 2 heights for use with the 305 and 450 H-Frame set only.

#### 2.5 Degree Angled Mat:

- **B9091**—2.5° 305 Angled Mat
- **B9093**—2.5° 450 Angled Mat

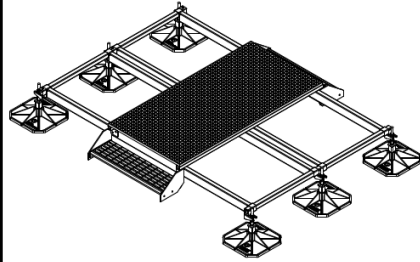


#### 5 Degree Angled Mat:

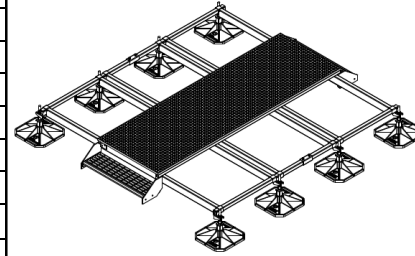
- **B9092**—5° 305 Angled Mat
- **B9094**—5° 450 Angled Mat



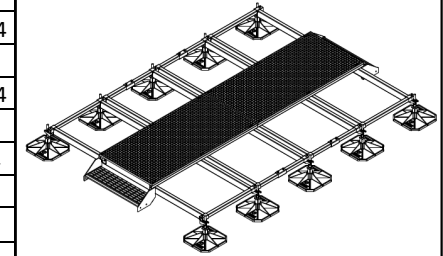
B4040 - 4 unit		
Length	mm	2000
	Inches	78 47/64
Width	mm	2800
	Inches	110 15/64
Height	mm	360
	Inches	14 11/64
Frame	kg	230
Weight	lbs	507
Design	kg	1600
Load	lbs	3527



B4040 - 6 unit		
Length	mm	3000
	Inches	118 7/64
Width	mm	2800
	Inches	110 15/64
Height	mm	360
	Inches	14 11/64
Frame	kg	320
Weight	lbs	705
Design	kg	2400
Load	lbs	5291

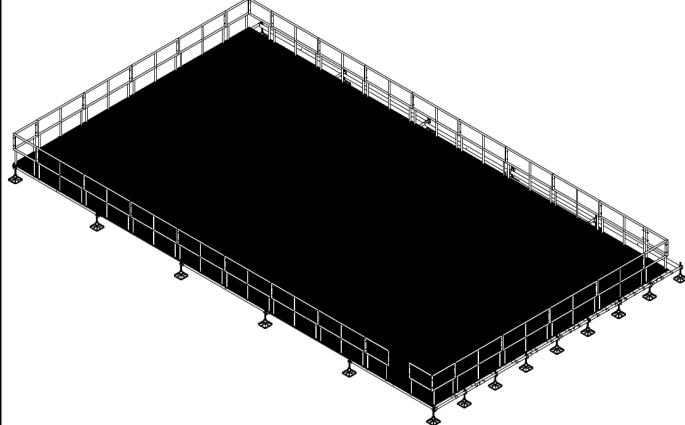
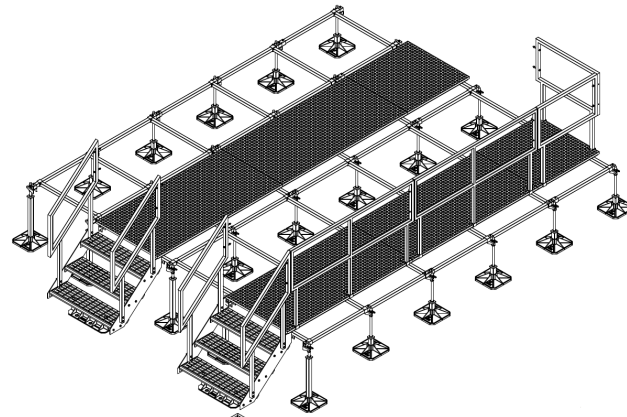


B4040 - 8 unit		
Length	mm	4000
	Inches	157 31/64
Width	mm	2800
	Inches	110 15/64
Height	mm	360
	Inches	14 11/64
Frame	kg	410
Weight	lbs	904
Design	kg	3200
Load	lbs	7055



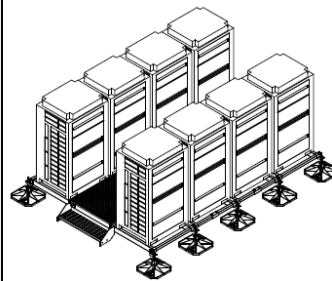
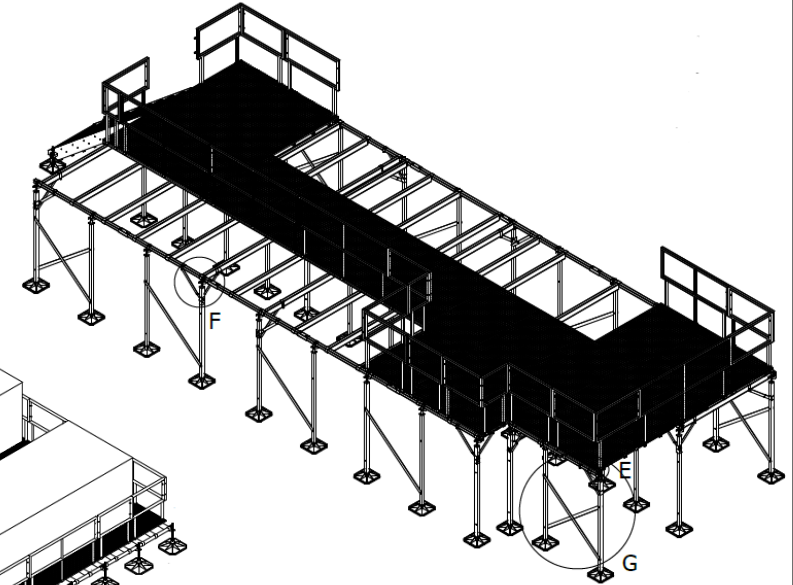
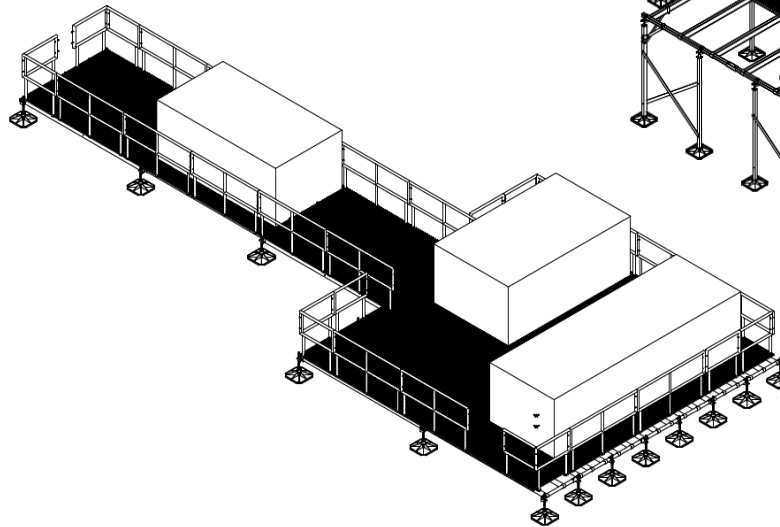
### Bespoke Plant Deck Frame

- Design from stocked componentry
- Designed in accordance with British Standard
- 3-5 working days lead time



### Custom Plant Deck Frame

- Fabricated to suit any design requirements
- Designed in accordance with British Standard
- 20-30 working days lead time



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

TITLE:  
Plant Deck Frame Product  
Specification Sheet

DWG No.  
BFT-PDF.dwg

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