BIG FOOT SYSTEMS

Big Foot Frameworks

Typical Application

For supporting roof plant on a flat roof

Big Foot Plastic Foot

Construction – Main framework in 3 sizes
40 x 40 x 2.5mm thick steel tube
50 x 50 x 3.0mm thick steel tube
100 x 50 x 3.0mm thick steel tube

Leg Assemblies adjustable by M24 nuts

All metal parts galvanised

Two foot sizes, 305mm² & 450mm² moulded in 30% glass filled nylon & supplied with rubber anti-vibration mat

Standard framework height adjustable from 250 – 350mm floor to framework

Stepped roof framework height adjustable from 250 – 550mm floor to framework

Maximum load per 305mm² Leg Assembly – 120 Kg
Maximum load per 450mm² Leg Assembly – 220 Kg

Operating temperature -30°C to +80°C

U.V. Stabilized

BBJ Engineering 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. The 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.

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Big Foot Plastic Foot

Material – Nylon 6 B601L 30% Glass Fibre Filled

Property	Test Method ASTM	Test Method ISO Equiv	Units	Value 30%
Physical				
Specific gravity	D792	ISO 1183	Kg/m³	1.36
Water Absorbtion	D570	ISO 62	%	1.1
Mould Shrinkage (flow)		ISO 2577	%	0.35
Mechanical				
Tensile Strength	D638	ISO 527	MPa	130
Elongation at break	D638	ISO 527	%	4
Flexural Strength	D790	ISO 178	MPa	190
Flexural modulus	D790	ISO 178	Gpa	5900
Notched Charpy Impact		ISO 179/1eA	kJ/m²	45
Unnotched Charpy Impact		ISO 179/1eU	kJ/m²	
Thermal				
Melting Point		ISO 3146	°C	220
Vicat Softening Point	D789	ISO 12188	°C	
Deflection Temperature	D648	ISO 75	°C	
			A 1.85 Mpa	210
			A 0.46 Mpa	220
Flammability				
UL94 m/m		ISO 75		V2

All data generated from specimens moulded in natural material, stored in a dry atmosphere (no more than 0.2% moisture). The inclusion of colour pigments or other additives may change some of the test results. All technical information supplied is accurate and reliable to the best of our knowledge. The information is given without warranty or guarantee and is intended for initial guidance or comparative purposes.

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Anti Vibration Mat

Quality Assurance
Raw materials are selected from ISO9002 registered suppliers

Construction
Pressure moulded using a one or two part mix, utilising milled, sieved & graded Styrene Butadiene Rubber (SBR-Recycled Rubber). Bound using a ratio of high quality moisture curing Polyurethane Pre-Polymer. Manufactured with a built in shrinkage allowance.

Safety Standards
All parts of British Standard BS7188:1989 & BS5696 Part 3:1979
European Standard PR EN 1177
U.S.A. Standard ASTM F 1292-99

Metalwork

Smooth Surface Finish
Excellent Weldability
High Strength
Supplied to EN10219 S235 J0H, EN10219 S275 J2H & EN10219 S355 J2H
Lock Nuts are M24, type C form Din 936 Washers to BS 4320-B
Large M24 Nut & Studding manufactured from Mild Steel Grade EN1A (Leaded)

Loading

305mm² LEG ASSEMBLY	
Load (Kg)	**Load per Foot (kN/m²)**
10	1.0
20	2.1
30	3.2
40	4.2
50	5.3
60	6.4
70	7.5
80	8.6
90	9.6
100	10.8
110	11.8
120	12.9

450mm² LEG ASSEMBLY	
Load (Kg)	**Load per Foot (kN/m²)**
20	1.0
40	2.0
60	3.0
80	4.0
100	5.0
120	6.0
140	7.0
160	8.0
180	9.0
200	10.0
220	11.0
240	12.0

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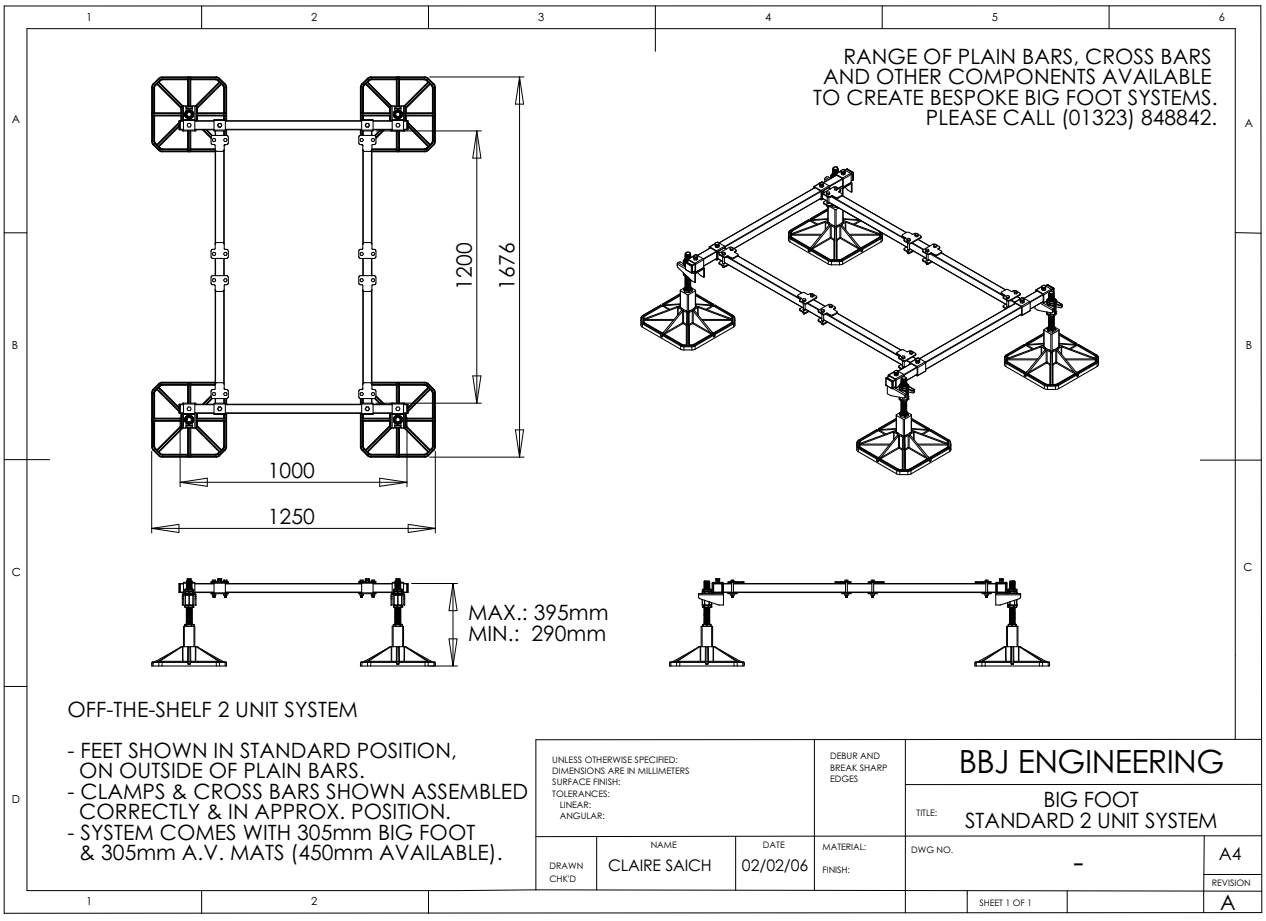
Technical Drawings

The following drawings represent the three complete modular frameworks from Big Foot Systems. Bespoke systems can be designed on request.

B6075 – Big Foot 1m Framework (2 Unit System)



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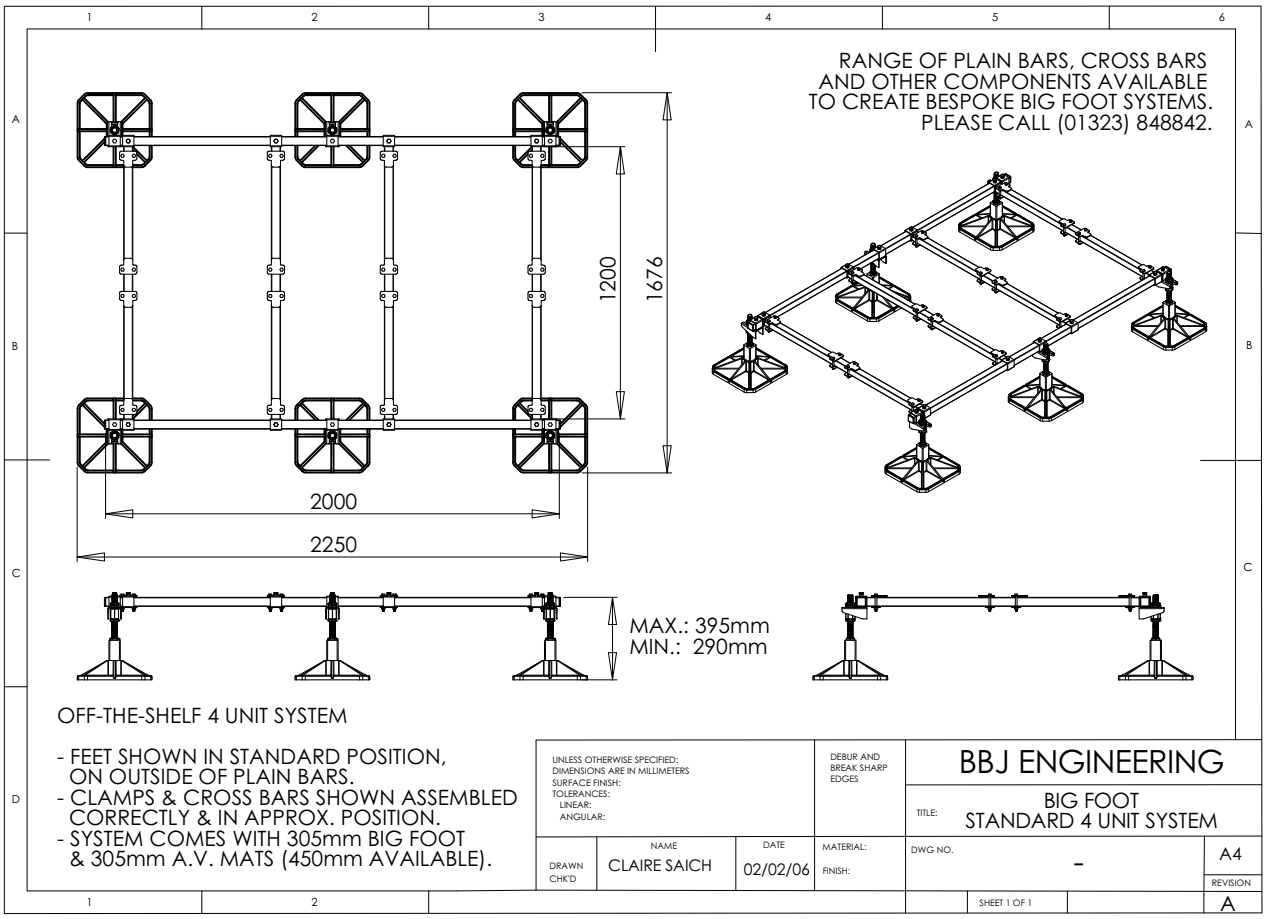
BIG FOOT SYSTEMS

Big Foot Frameworks

Technical Drawings

B6077 – Big Foot 2m Framework (4 Unit System)



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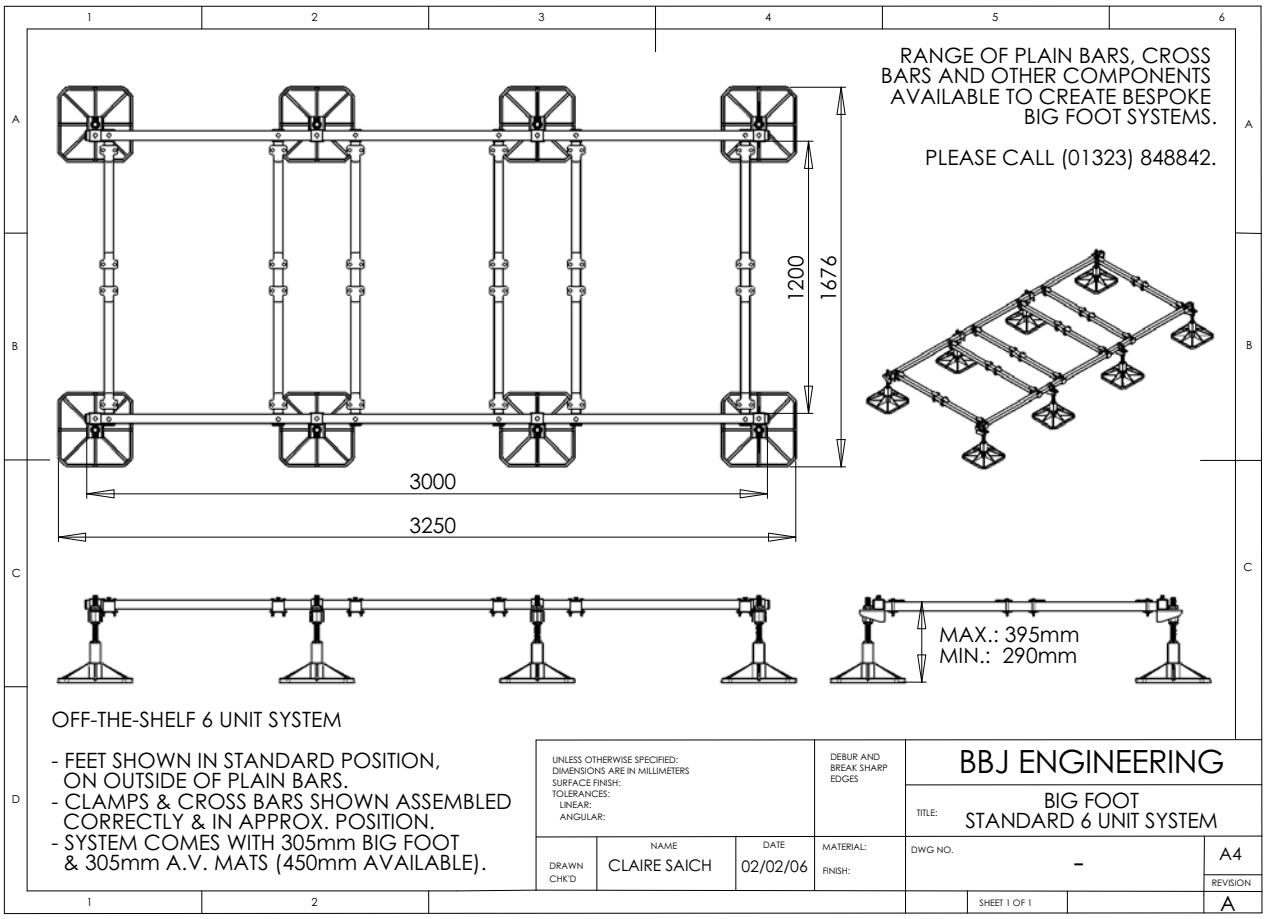
Big Foot Frameworks

Technical Drawings

B6078 – Big Foot 3m Framework (6 Unit System)



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