



BIG FOOT
SYSTEMS

Screen Support Specification



Product Description

Non-penetrative Screen Support.

Screens - Weathered Louvre; Acoustic Louvre etc

Fencing - Wood; Mesh etc

Enclosures - Unit Enclosures; Acoustic Enclosures

Features and Benefits

- Design to fit a variety of screens from fencing, louvre to solid acoustic panels.
- Robust solution; suitable for use with screens of any length, height and weight.
- A non-penetrative and cost effective solution.
- Ease of installation, on site in 4 weeks from design approval.
- Project specific calculations and load management.
- Versatile modular design to give greater flexibility on-site.
- M&E equipment can be incorporated into design at minimal cost, saving on separate standalone support
- Hot dipped galvanized carbon steel for all weather application.
- Suitable for all types of roof finish.
- Foot protection fleeces to safeguard against polymer migration on all membrane roof finish.
- Project specific wind analysis.
- Designed to withstand over-turning and destabilizing winds up to 100mph wind pressure.
- Ballast supplied as required to achieve stability under wind loads.
- Roof membrane integrity upheld due to no penetrations.
- 10 year certified product guarantee



Design

Big Foot Screen support framework is designed as below:

- Vertical A-frames to suit screen height from 1m – 3.5m as standard
- Vertical post alternative where space for plant support is required
- Crossbars to support ballast or plant
- 41x41 strut as horizontal screen support
- Cantilever step and GRP access.
- Framework usable area limited by space available on roof
- 305, 450 or 600mm feet sizes available for use
- Ballast slabs maybe necessary to achieve wind loading requirement
- M&E support can be incorporated into design as ballast replacement



Ballast slabs incorporated into design to achieve 100mph wind load

Condensing units, Chillers or Air Handlers designed as part of framework reduces the need for ballast





On-site Considerations

Foot Fleeces: For use on all membrane roof surfaces to prevent migration of plasticizers.

- **B9156:** 305mm (12 inches)
- **B9157:** 450mm (17 3/4 inches)
- **B9415:** 600mm (23 5/8 inches)



Angled Mats: Recommended use on roof with up to 6-degree fall. Available for use with the 305 and 450 Feet.

- 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



Quotation Request (Proposal)

A quotation request can be sent by email to enquiry@bigfootsupport.com.

To ensure a quick and accurate quotation see short list of questions we ask below:

Project details:

Name / Site reference

Due on site

Roof details:

Roof plan – GA drawing in PDF and DWG if available

Roof construction type / build up

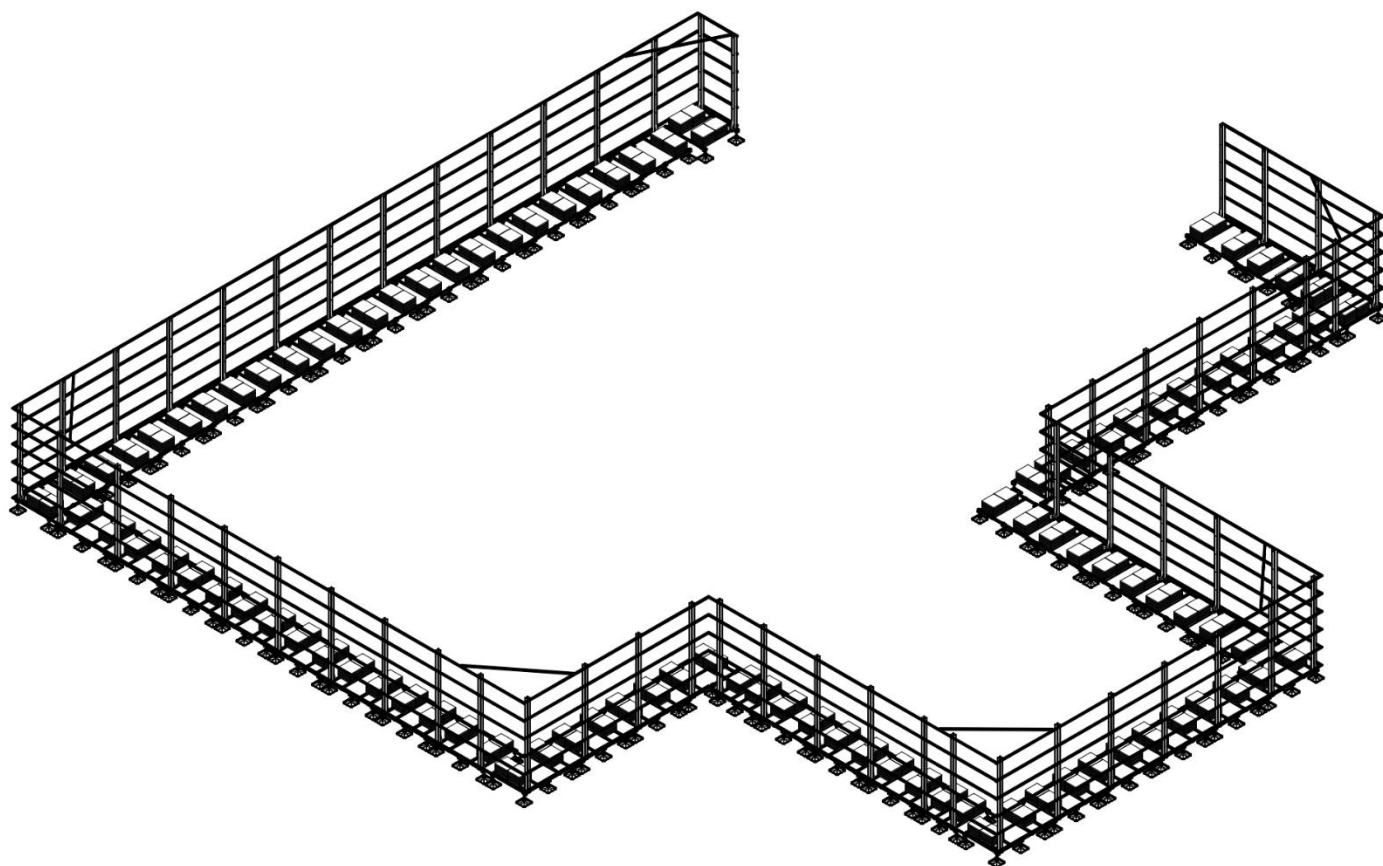
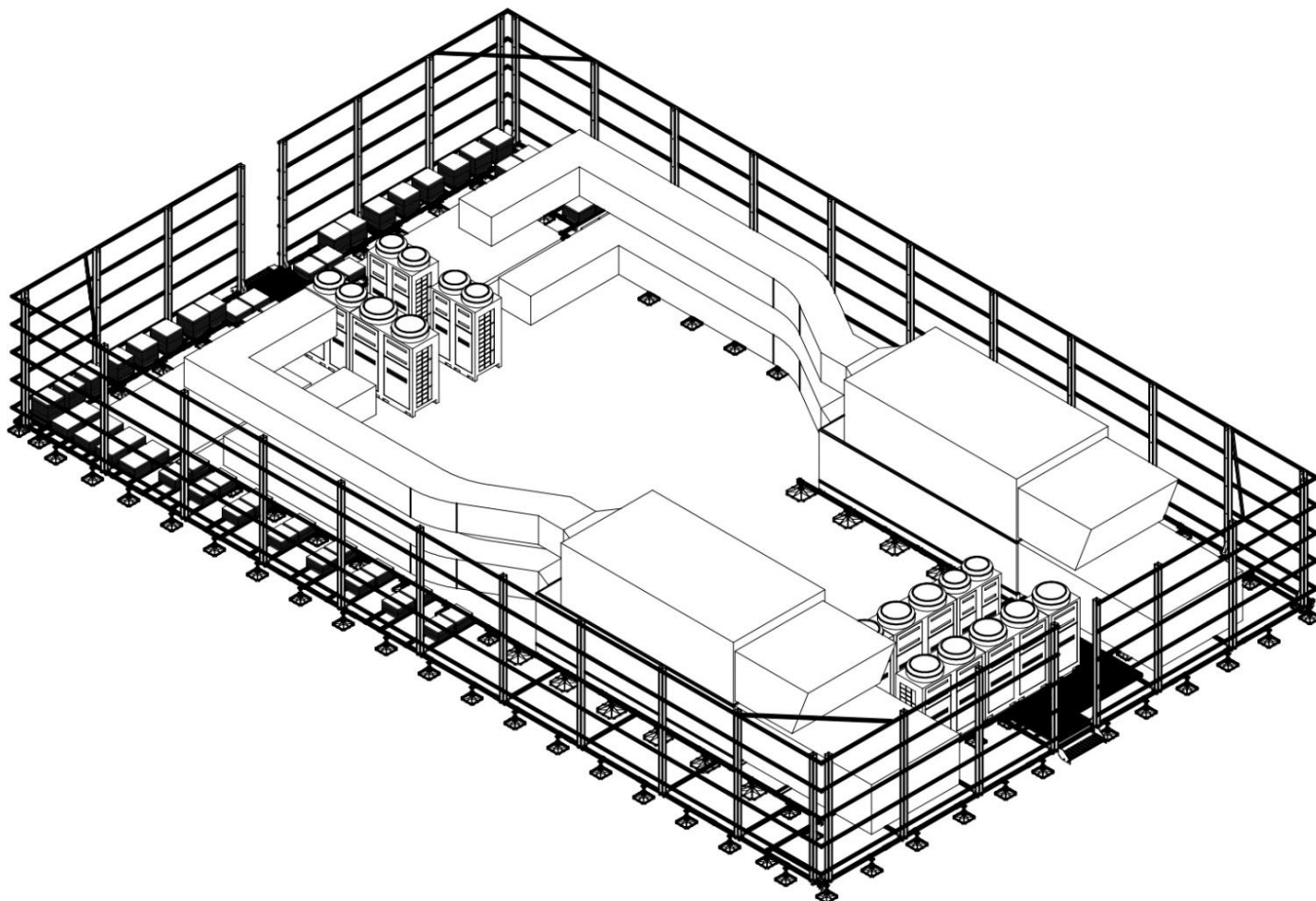
Degree of slope / roof fall

Screen details:

Screen type, free area % and weight

Louvre layout drawing

Louvre height – Overall and or clearance height



Design 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/m² and 7.5kN/m² respectively.
- Design loads are based upon allowable deflection on supporting members and allowable roof load.
- Maximum allowable roof load should be checked with structural engineer.
- Design loads recommended by Big Foot Systems should not be exceeded.

Material Specification & Environmental Information

Big Foot products are made from recyclable or recycled materials

- **Plastic Foot:** Recycled Nylon 6 B601L 30% glass fibre filled.
- **Rubber Crumb Mat:** SBR-recycled rubber. Bound using a ratio of high-quality moisture curing polyurethane pre-polymer. BS 7188 and BS 5696-3.
- **Metal Framework:** Hot dip galvanized carbon steel: BS EN 10219-1. Recyclable steel

Standards of Practice

- Galvanizing: BS EN ISO 1461.
- Welding standard: BS EN ISO 15614-1
- ASTM B117-11: Salt mist test conducted to simulate an accelerated environmental test.
- Suitable for internal or external applications in temperatures between -40°C to +80°C.

