

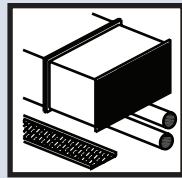


Pump House

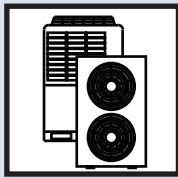
Flexi Support Systems For Building Services - Product Guide



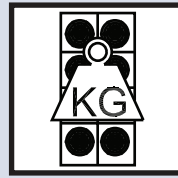
Flexi



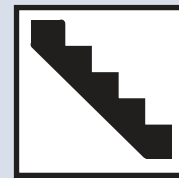
everyday



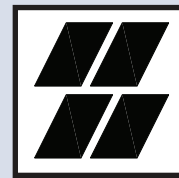
light



heavy



access



solar



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🐦 www.twitter.com/pumphouseltd



Flexi

about us

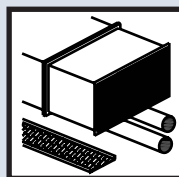
Pump House has been supplying products into the HVAC sector since 2001, specialising in condensate pumps, renewable solutions which include building services support systems and associated accessories. In delivering exceptional customer service and great quality products we pride ourselves in our abilities and performance.

Following the launch of our flexi range of building services support solutions back in 2007 we have seen significant growth due in the industry's need for an alternative solution to traditional concrete plinths or paving slabs.

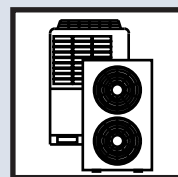
As a result of listening to our customers, we have now launched this comprehensive range of products providing architects, engineers, consultants, building owners and contractors a simplistic, cost effective and easy to install solution as an alternative support of building services. Our support products offer greater flexibility throughout (hence the name 'flexi'). Whether supporting small cable trays or condensing units and fans, or larger building services such as air-handling units, chillers and packaged plantrooms, we'll have a solution. We even supply safe access walkways, step-over's and maintenance platforms compliant with current British Standards.



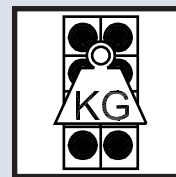
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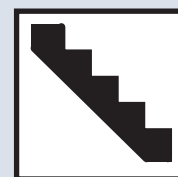
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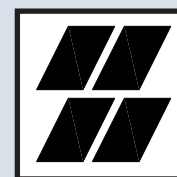
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heavy



access



solar



Flexi

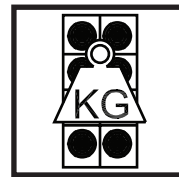
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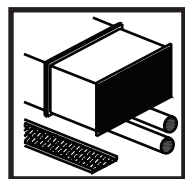
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heavy

Heavy Duty Twin
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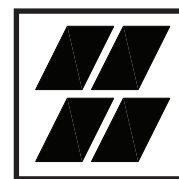
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everyday

Flexi Foot with Strut
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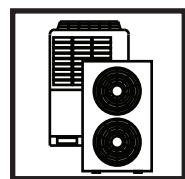
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solar

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light

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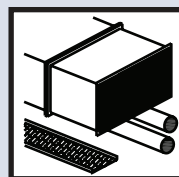
access

Step-over's and Hop-over's
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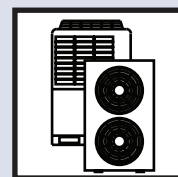
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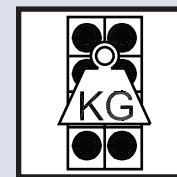
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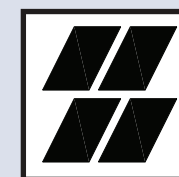
light



heavy



access



solar



Flexi

s.a.f.e

Stability : Accuracy : Future-proofed : Engineered

Stability We assess the weight and size of the building services being supported upon our frameworks to ensure they are safe against wind loadings, whilst working in line to BS EN 1991-1-4: 2005 Euro code: Actions on Structures, Parts 1-4 to deliver robust solutions.

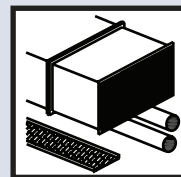
Accuracy At times it may be necessary to conduct a site survey to ensure our systems fit within confined roof spaces. Creating fully dimensional working drawings based on our survey or from information supplied to us by our customer, we can ensure an accurate and planned proposal will work on the day for the installer.

Future Proofed Flexi non-penetrative support systems ensure best working practices are at hand. Eliminating potential cold bridging issues and awkward waterproofing detailing as seen with conventional concrete and steelwork installations, there is also less inherent risk to the roofing systems when installing our support frameworks. This is augmented by supplying our standard frame solutions 300mm - 400mm above the roof finishes to ensure easier long term maintenance of the building fabric by the end user/building owner. Our sustainable long life solutions are designed with environmental considerations and trends in mind and are all fully recyclable.

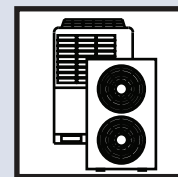
Engineered With heavier building services weight distribution is a primary consideration in managing loads through our frameworks successfully down to the roofing system. In all instances we will assess these loadings, and if necessary work closely with the project structural engineer, to ensure we provide safe workable solutions. Due to the robust nature of our lightweight systems, a primary benefit is the freedom to re-position frameworks at the last minute should the on-site project team make late changes.



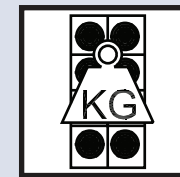
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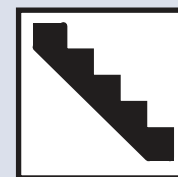
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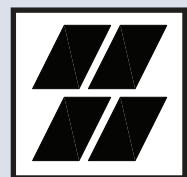
light



heavy



access



solar



Flexi

flexi warranty

Protecting what's worth having

At Pump House we believe in protecting our customers interests when it comes to supplying you with our product. When you purchase one of our support systems you will automatically receive a standard 1 year manufacturer's warranty. However, we have gone one step further as we are passionate about the quality of the product we sell. As a result, an 'enhanced' 20 YEAR WARRANTY is now available on all items that meet our system objectives and guidelines as set out below:

Requirements

- ✓ We design the solution following equipment criteria being forwarded to us via the customer e.g. weight, dimensions, manufacturers' drawing, etc.
- ✓ You advise us of any vulnerable site conditions, e.g. exposed location, positioned upon high storey building, coastal position etc. prior to a design being produced so we can factor this into our proposal.
- ✓ You advise us of the roofing system build up, i.e. waterproofing membrane, insulation and deck type?
- ✓ The equipment is installed accurately and in accordance to our detailed drawing proposal, (e.g. post installation photos of the frame supporting the unit will suffice).
- ✓ There is still allowance for future adjustment within the leg assemblies via the M24 stud being visible, and the intended frame height has not been compromised in any way.
- ✓ No additional building services have been added to the framework.
- ✓ The installer has not damaged the galvanised coating finish to our frame(s) whilst installing due to rough handling or cutting.
- ✓ No alteration, cutting or adaptation of our support solutions has been done.

Once you have fulfilled these guidelines and submitted photographic evidence of the installation, we will issue the end user/building owner with a 20 year warranty certificate commencing from the original date of installation.

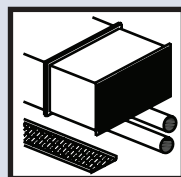
After Sales Support

We'll even work with the end user or building owner well after the installation is complete to advise and assist them with any future re-roofing or maintenance issues to their roof where they have our support frames in situ. We are also able to supply operation & maintenance (O&M) manuals to assist and advise them in the carrying out of basic annual or periodic inspections of our systems.

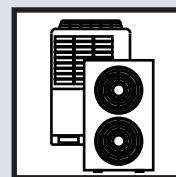
We have an excellent understanding of modern day flat roof designs and the materials used within them to gain the water-proofing integrity and thermal efficiency. Therefore we are able to advise the end user or building owner of the best practice when re-installing our solutions should the existing roofing build-up be replaced with an alternative roofing system.



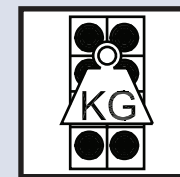
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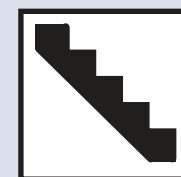
everyday



light



heavy



access



solar



Flexi

flexi specifier's information

We are here to support you

Design We will provide you with a fully integrated design service. We hold a large library of standard drawings ready for insertion within specification documentation & drawings. If necessary we can visit you to discuss your project particulars and assist you in a workable solution, even if its a bespoke one.

Surveying Some site conditions are complex due to existing in-situ building services that new equipment has to fit around, or existing concrete plinths dictating the design parameters for example. As a result we offer full site support services, whether its a rooftop meeting with you to determine the scope of works, or a full detailed site survey of the roof area to ensure we can provide you with a workable solution, rest assured help is at hand.

Calculations If necessary we will work closely with the structural consultant and/or structural engineer early on in the project's lifecycle to demonstrate our proposals by providing calculations ahead of the installation date. We are able to provide wind loading, and frame calculations such as leg reactions and foot pressures to assist in manageable proposal.

Flexible All our systems are available in different lengths, widths and heights to provide a fully flexible solution. In addition we can supply low level support near the roof membrane, or alternatively a diagonally braced high level framework. Whichever is required, we will ensure a suitable and safe support solution can be provided on the day.

Confidence Specify with confidence by relying on the knowledge that our specialist team have over seventeen years of experience in the use of non-invasive hot dip galvanised support systems for M&E building services, and the roofing systems they sit upon.

We assist

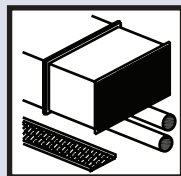
- Architects
- Structural Engineers
- Building Owners
- Consultants
- End Users
- Distributors
- Contractors
- Surveyors
- Estates
- Facilities
- Building Management

Which Sectors

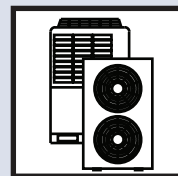
- Education
- Health
- Retail
- Commercial
- Industrial
- Leisure
- Infrastructure
- Institutions



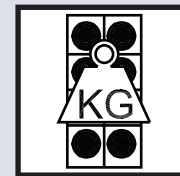
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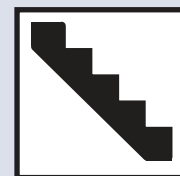
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light



heavy



access



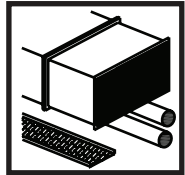
solar



Flexi

flexi at a glance

Product categories

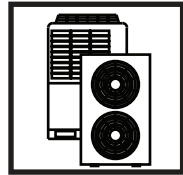


everyday



Typical Application

- ✓ Cable Baskets
- ✓ Cable Trays
- ✓ Cable Ladders
- ✓ Smaller Bus Bars
- ✓ Ducts
- ✓ Attenuators
- ✓ Small Extract Fans and Motors
- ✓ Smaller Pipework

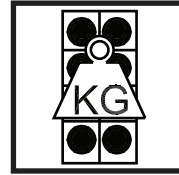


light



Typical Application

- ✓ A/C Split Condensers
- ✓ VRF Systems
- ✓ VRV Systems
- ✓ Small AHU's
- ✓ Small Chillers
- ✓ Supply Fans
- ✓ Extract Fans

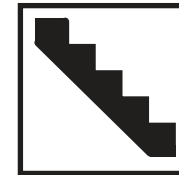


heavy



Typical Application

- ✓ Large AHU's
- ✓ Large Chillers
- ✓ Large Air Cooled Condensers
- ✓ Smaller Generators
- ✓ Plantrooms
- ✓ Boiler Houses
- ✓ Heavy Pipework
- ✓ Heavy Cable Ladders



access



Typical Application

- ✓ Access Over Services
- ✓ Plant Maintenance
- ✓ Elevated Walkways
- ✓ Fire Escapes
- ✓ Ramped Solutions
- ✓ Custom Solutions

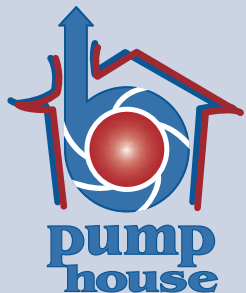


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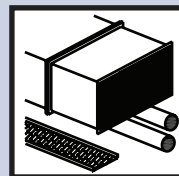


Typical Application

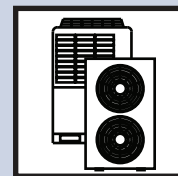
- ✓ PV Panels
- ✓ Solar Thermal



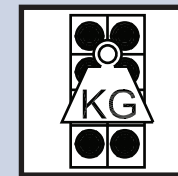
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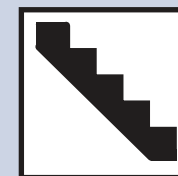
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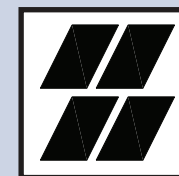
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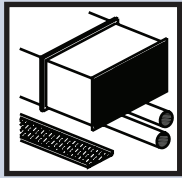
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access



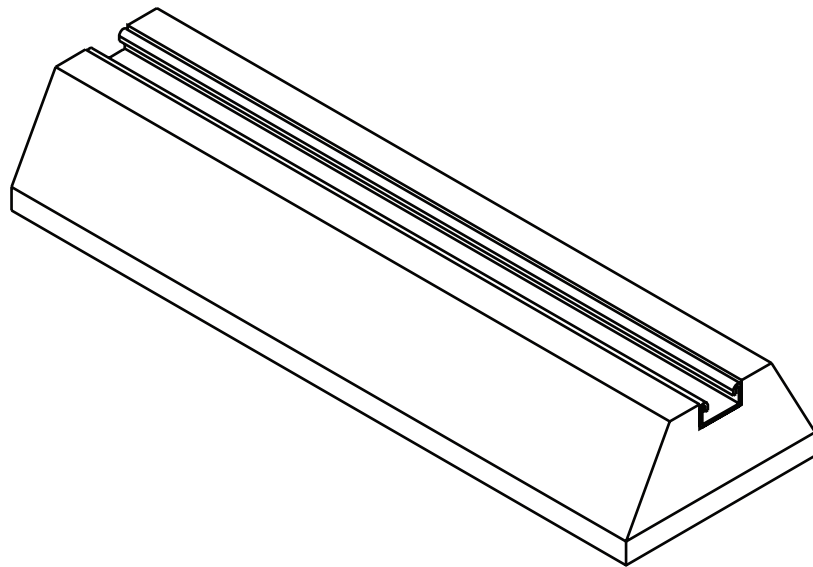
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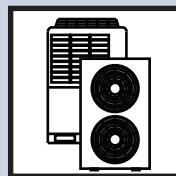
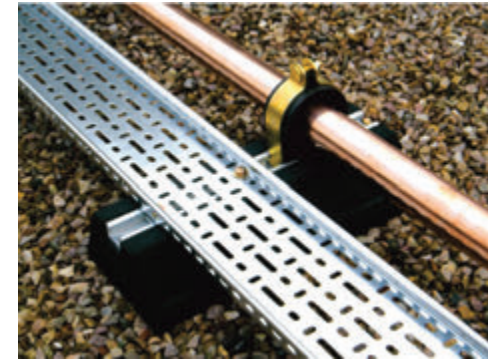
flexi everyday - *flexi* foot

**Supporting electrical containment, small
F&R pipework and single fan a/c units**

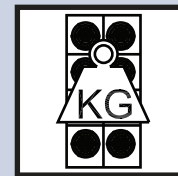


Features & Benefits

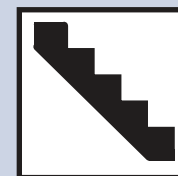
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Supplied with integrated 21 x 41mm steel strut, fully bonded to the foot, stronger than some aluminium alternatives
- Drainage slots to underside
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



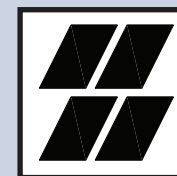
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heavy



access



solar



Flexi

flexi foot

These flexi feet with strut come in four sizes, 250mm, 400mm, 600mm and 1000mm long. They are manufactured from heavy duty recycled rubber and are supplied with an integral 21mm x 41mm galvanised steel strut adhered to the rubber with industrial strength adhesive. The dense nature of these products make them suitable for various building services supports and are manufactured with drainage slots to the underside for rainwater run off.

Typical installation - Part Code - FF-400-S and FF-250-S (shown below)



Part Code	Description	Length	Width	Height	Weight	Max. Load
FF-250-S	Flexi FOOT - 250 mm Strut	250 mm	185 mm	100 mm	2.8 kg	175 kg
FF-400-S	Flexi FOOT - 400 mm Strut	400 mm	185 mm	100 mm	4.6 kg	280 kg
FF-600-S	Flexi FOOT - 600 mm Strut	600 mm	185 mm	100 mm	7.6 kg	420 kg
FF-1000-S	Flexi FOOT - 1000 mm Strut	1000 mm	185 mm	100 mm	12.0 kg	700 kg



Specification Extract

External F&R pipes / cable tray / air conditioning split will be supported on Pump House flexi foot. Tel: 0115 900 5858.

Application

Suitable for supporting everyday installation of small F&R pipework, lightweight cable basket and cable tray at low level.

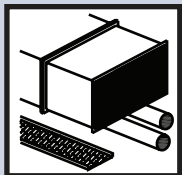
Alternatively the installer can build up additional strut for elevated services subject to stability considerations. Flexi feet are also suitable to support lighter a/c split condensers and air source heat pumps in wind protected environments.

Material Specification

- Foot - SBR recycled rubber BS7188:1989 + A2:2009 and BS EN 1176-7:2008 - UV stabilised
- Strut - 41x41x2.5 steel strut hot dip galvanised steelwork. BS EN 10219:1997
- Finish - Galvanising: BS EN ISO 1461:1999
- Robust high quality materials used
- Channel is compatible with industry standard fixings and fixtures
- Suitable for internal or external environments in temperatures between -40°C to +80°C. BS EN 60068-2-14:2009

Our service offers you

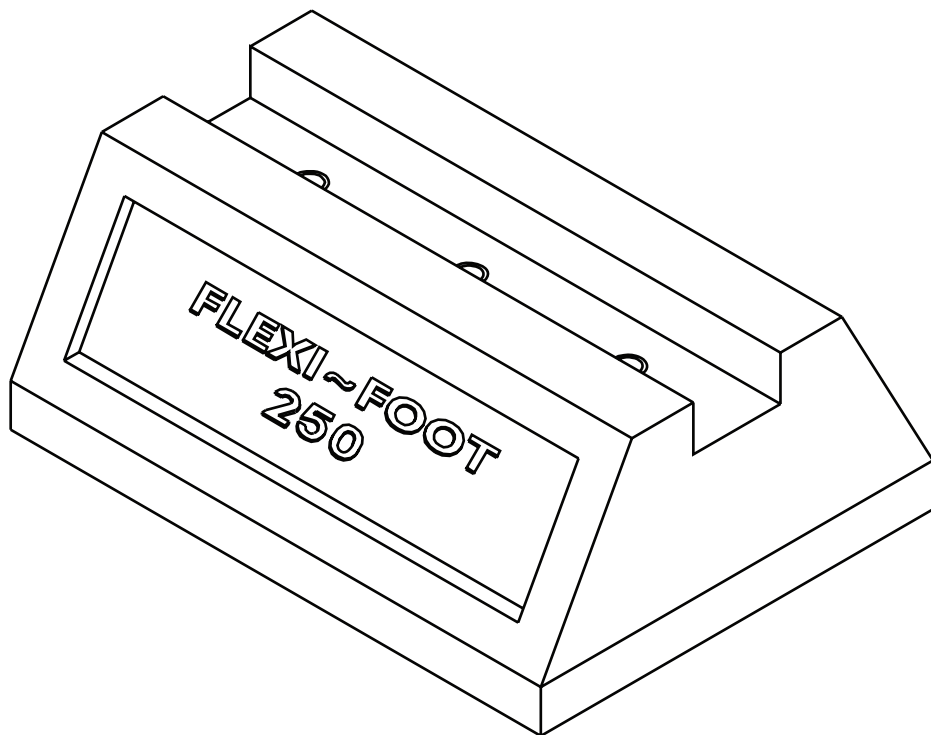
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



everyday

flexi everyday - *flexi* foot universal

**Supporting electrical containment, small
F&R pipework and single fan a/c units**

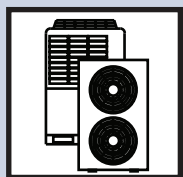


Features & Benefits

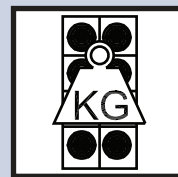
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Supplied with three M10 inserts to provide flexibility to support various equipment
- Designed for engineers with flexibility in mind
- Drainage slots to underside
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



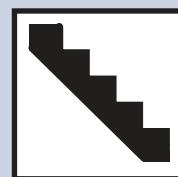
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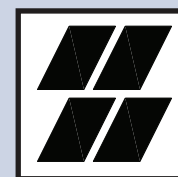
light



heavy



access



solar



Flexi

flexi foot universal

The flexi foot universal has been specifically designed to allow even greater flexibility with the installer free to bolt their own 41 x 41mm or 41 x 21mm strut of varying lengths to suit many installations. The three M10 threaded inserts integrated within the foot recess provides an anchor point for the securing of additional M10 threaded stud positioned in a vertical plane and often finished off with a pipe support clamp to the top. Manufactured with drainage slots to the underside for rainwater run off.

Typical installation



Part Code	Description	Length	Width	Height	Weight	Max. Load*
FF-250-UNI	Flexi FOOT - 250 mm Universal	250 mm	185 mm	100 mm	2.8 kg	125 kg

* Threaded inserts have a maximum load of 25kg per insert



Flexi

Specification Extract

External F&R pipes / cable tray / air conditioning split will be supported on Pump House flexi foot universal. Tel: 0115 900 5858.

Application

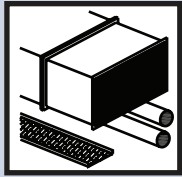
Suitable for the everyday support of small flow and return (F&R) pipework installations, also lightweight cable trays supported via a strut frame built onto the foot by the contractor or in unison with additional M10 threaded stud. Provides a low cost solution providing elevated low level support.

Material Specification

- Foot - SBR recycled rubber BS7188:1989 + A2:2009 and BS EN 1176-7:2008 - UV stabilised
- Inserts - three M10 threaded inserts moulded within rubber foot during manufacture
- Finish - Galvanising: BS EN ISO 1461:1999
- Robust high quality materials used
- Channel is compatible with industry standard fixings and fixtures
- Suitable for internal or external environments in temperatures between -40°C to +80°C. BS EN 60068-2-14:2009

Our service offers you

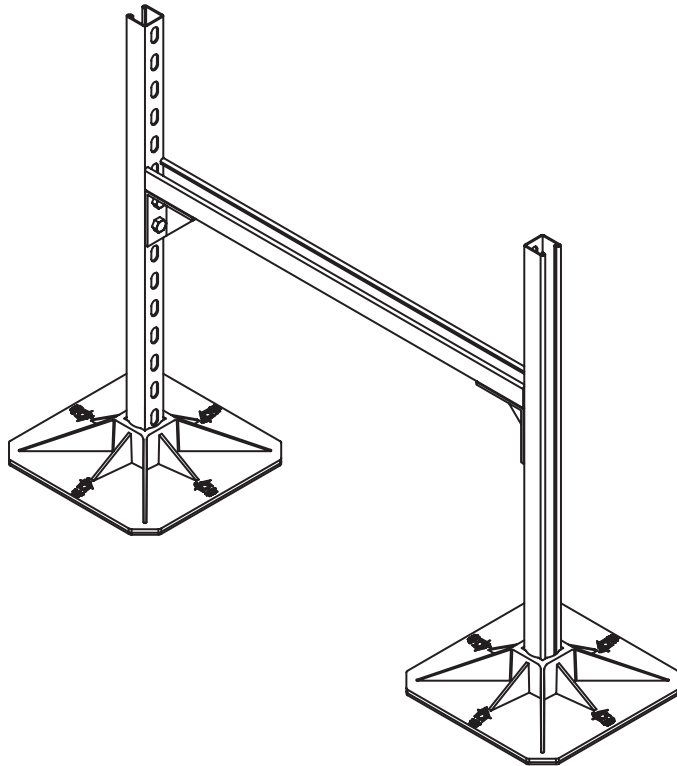
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



everyday

flexi everyday - *flexi* H-frame kits

H-frame kits to support ducts, pipes and electrical containment

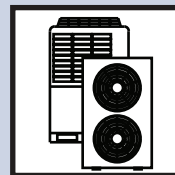


Features & Benefits

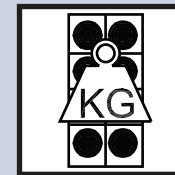
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised bracketry
- Rubber mats adhered to feet
- Two foot sizes available
- The kit comes supplied in a box
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



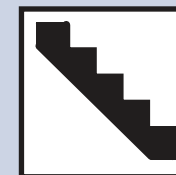
Pump House
Glaisdale Drive East
Nottingham
NG8 4LY
Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



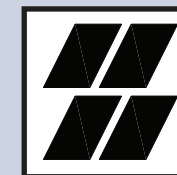
light



heavy



access



solar



Flexi

flexi H-frame kits

Our H-frame kits offer the installer full flexibility by providing a solution where they can supply their own strut to suit their installation requirements. The H-frame kits are supplied with a pair of either our 320mm feet, most widely used in the majority of installations or where heavier more demanding loads are present, then our 500mm foot version kit is available. All kits are supplied with hot dip galvanised angle brackets together with all the necessary fixings to assist the installer in a low cost, versatile and fast assembly solution on site.

Typical duct installation



What's in the box



Part Code - F-HF-320 (shown above)

Part Code	Description	Foot Size	Recommended Max Load	Weight
F-HF-320	Flexi H Frame Set - 2 square black feet and fittings	320 mm x 320 mm	250 kg	4 kg
F-HF-500	Flexi H Frame Set - 2 square black feet and fittings	500 mm x 500 mm	600 kg	6 kg



Flexi

Specification Extract

Duct/pipe/tray services will be supported on flexi everyday H-frame kits utilising (add required foot size) and with adhered rubber mats. Contact Pump House: 0115 900 5858

Application

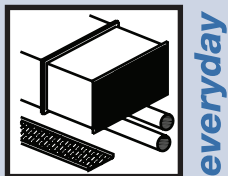
Suitable for everyday installation of ductwork including associated attenuators. Small to medium sized flow and return pipework and electrical containment e.g. cable trays or cable ladders.

Material Specification

- Foot - 320mm & 500mm square UV stabilised 90% polypropylene, 10% grp
- Mat - 100% natural rubber, (mat is adhered to the feet)
- Fixings - M10 ZP sets, sprung washers and nuts.
- Angle brackets - mild steel, hot dip galvanised BS EN ISO 1461:1999
- This product is supplied boxed. Kit does NOT include strut (frame) metalwork.

Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



flexi **everyday**

Ancillary Products

Flexi Riser Housing

Aluminium two part housings for pipes & electrical cables through flay roofs. Five products available:

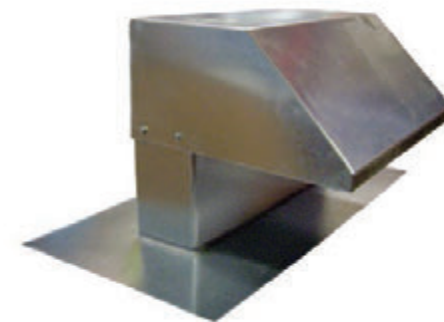
Part Code	Size (H x W)	Weight
RH-S-125	125 x 125 mm Aperture	2.7 kg
RH-S-250	125 x 250 mm Aperture	3.7 kg
RH-D-250	125* x 250* mm Aperture	3.6 kg
RH-S-500	125 x 500 mm Aperture	5.6 kg
RH-S-250SQ	250 x 250 mm Aperture	4.3 kg

* Double entry housing

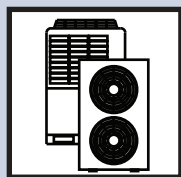
Protection Fleece

Geotextile polyester fleece for PVC / TPO field membrane protection. Sold by the linear metre. Please specify requirements.

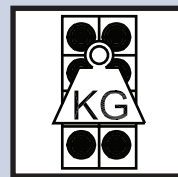
Part Code	Size	Weight
MPF-12	2000 mm x 1000 mm	300 gsm



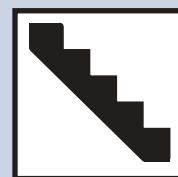
Pump House
Glaisdale Drive East
Nottingham
NG8 4LY
Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



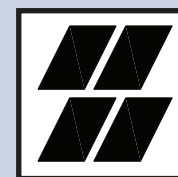
light



heavy



access



solar

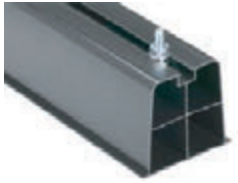


Flexi

flexi associated products

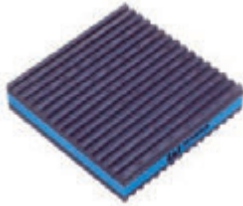
Pump House can provide a range of mounting solutions. The Mounting Block can be used as an option to mount an air conditioning units or air source heat pump. They reduce vibration and are supplied with fixings for a simple, rapid installation. The EVA™ Pads are designed to eliminate vibrations, these pads consist of a polymeric foam core laminated with two ribbed 90 degree opposed rubber sheets. The rubber and cork strips are a low cost option for mounting any type of equipment where vibration and sound damening might be an issue. Securing a unit to the family of flexi foot with strut with the fix packs offers a speedy solution, furthermore we can provide a fix clamp to add extra stability to the foot by providing the installer with an option to secure it to the floor.

Mounting Blocks



- Lightweight
- 100% rust free
- UV stabilised
- Reinforced PVC
- Anti Slip Strips
- Three sizes available
- SWL upto 240kg

EVA™ Pads



- Vibration reduction composite foam centre
- Ribbed outer and upper rubber sheets
- Five sizes available
- SWL - 3.5kg / cm²

Rubber & Cork Strips



- Low cost option
- Vibration reduction
- Recycled rubber
- Upto 30 dB(A) sound reduction
- Four sizes of rubber strip
- Two sizes of cork strip
- UV stable

Fix Packs



- Used to secure units to the family of flexi foot with strut

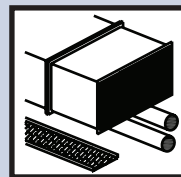
Fix Clamps



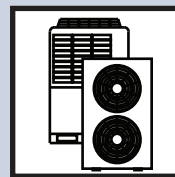
- Used to secure the foot to the floor
- Three 10mm holes.
- Suits all sizes



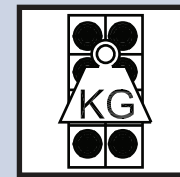
Pump House
Glaisdale Drive East
Nottingham
NG8 4LY
Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



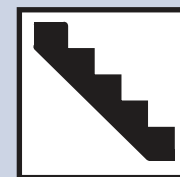
everyday



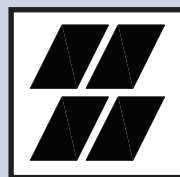
light



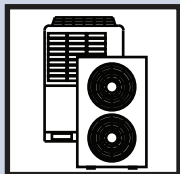
heavy



access



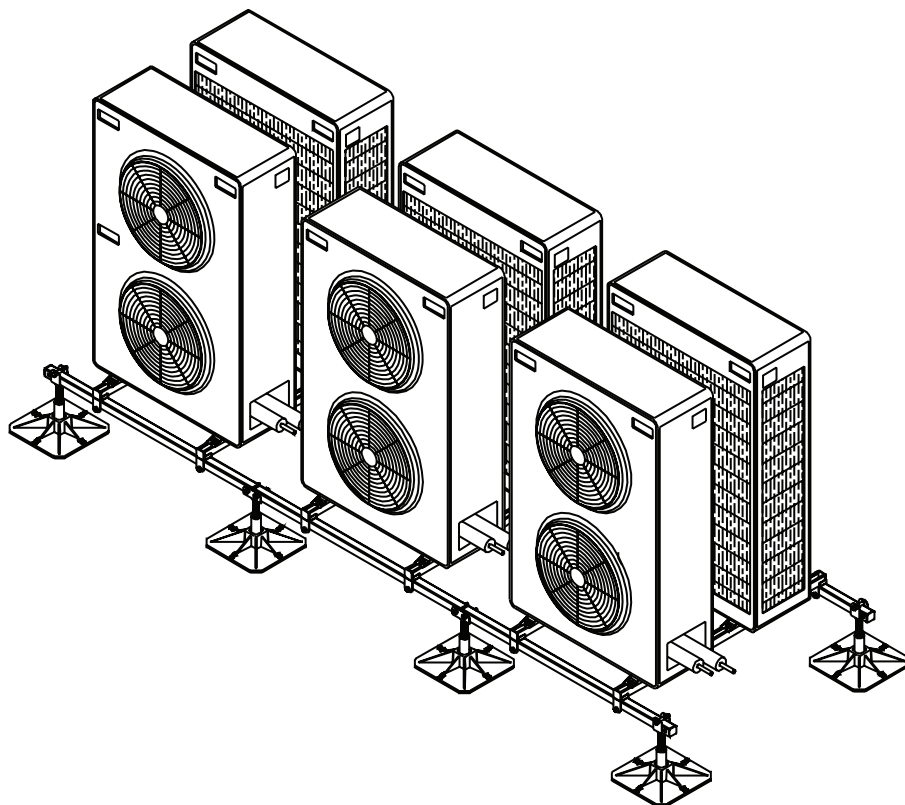
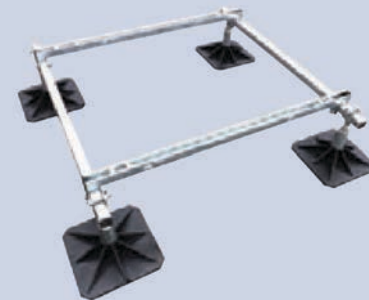
solar



light

flexi light - flexi frames

Modular frames for Split Systems



Features & Benefits

- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- No time consuming clamping kits required, cross bars are industry standard strut fix
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services
- Available with Grey circular feet or Black square options



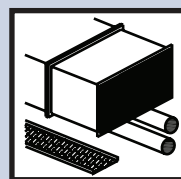
320mm square foot



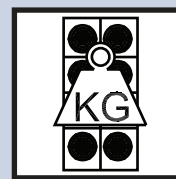
365mm dia foot



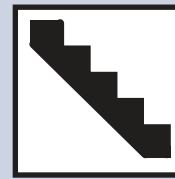
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sales@flexisupportsystems.co.uk



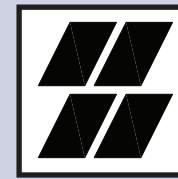
everyday



heavy



access



solar



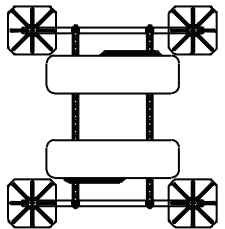
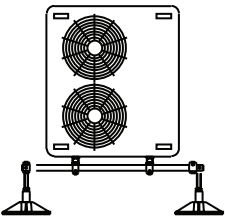
Flexi

flexi modular frames for a/c splits

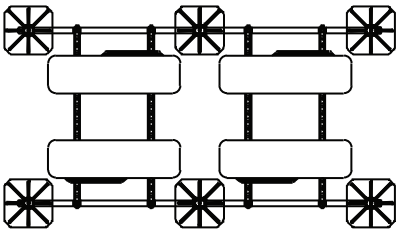
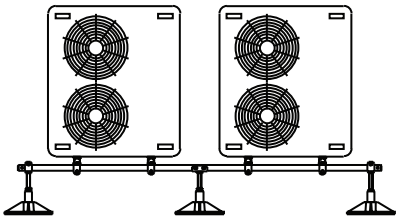
These versatile free standing frameworks are supplied boxed and come with fully adjustable leg assemblies and 320mm square black polypropylene feet as standard* incorporating an anti-vibration rubber mats adhered to the underside. Robust 40 x 40mm standard box end bars are 3mm thick and leg assemblies can slide to many positions. Industry standard strut cross bars negate the requirements of time consuming clamping kits as sprung washers and associated M10 fixings are supplied with all frameworks. For heavier services please visit our 'flexi - heavy' range.

* Round grey 365mm dia feet can be supplied if preferred - please specify on order

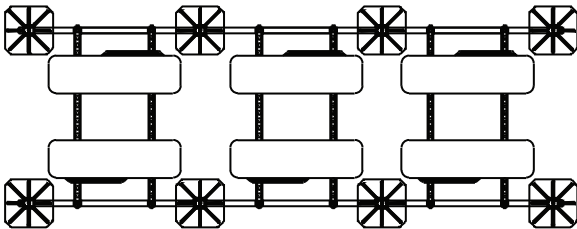
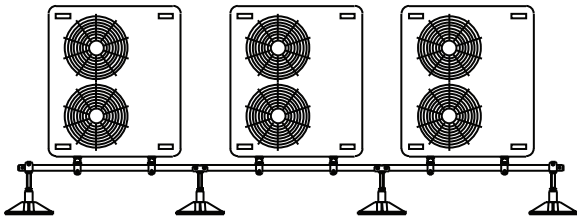
Typical a/c split condenser layout



Part Code - PH-BF-B



Part Codes - PH-BF-B + PH-EF-B



Part Codes - PH-BF-B + 2 x PH-EF-B

Part Code	Description	Length	Width	Height	Weight	Max Load
PH-BF-B	Flexi - BASE FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	30 kg	500 kg
PH-EF-B	Flexi - EXTENDER FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	24 kg	500 kg

The system can accommodate any number of AC splits simply by adding additional PH-EF-B (EXTENDER FRAMES)



Flexi

Specification Extract

External a/c services will be supported on Pump House fully adjustable and hot dip galvanised flexi frames. Contact Pump House Tel: 0115 900 5858.

Application

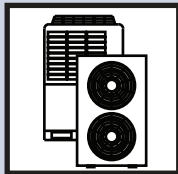
Suitable for a/c split condensers. Cross bars slide to accommodate a/c fixing feet centres and negate the requirement of time consuming clamping kits (as seen with some systems), as industry standard sprung nuts and strut cross bars provide a very fast install.

Material Specification

- Foot - 320mm square or 365mm dia. round UV stabilised 100% polypropylene
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top
- End bars - 40x40x3mm SHS (square hollow section)
- Cross bars - 41x41x2.5mm slotted stut with adjustable end clamps
- Finish - Hot dip galvanised steelwork BS EN 102191:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

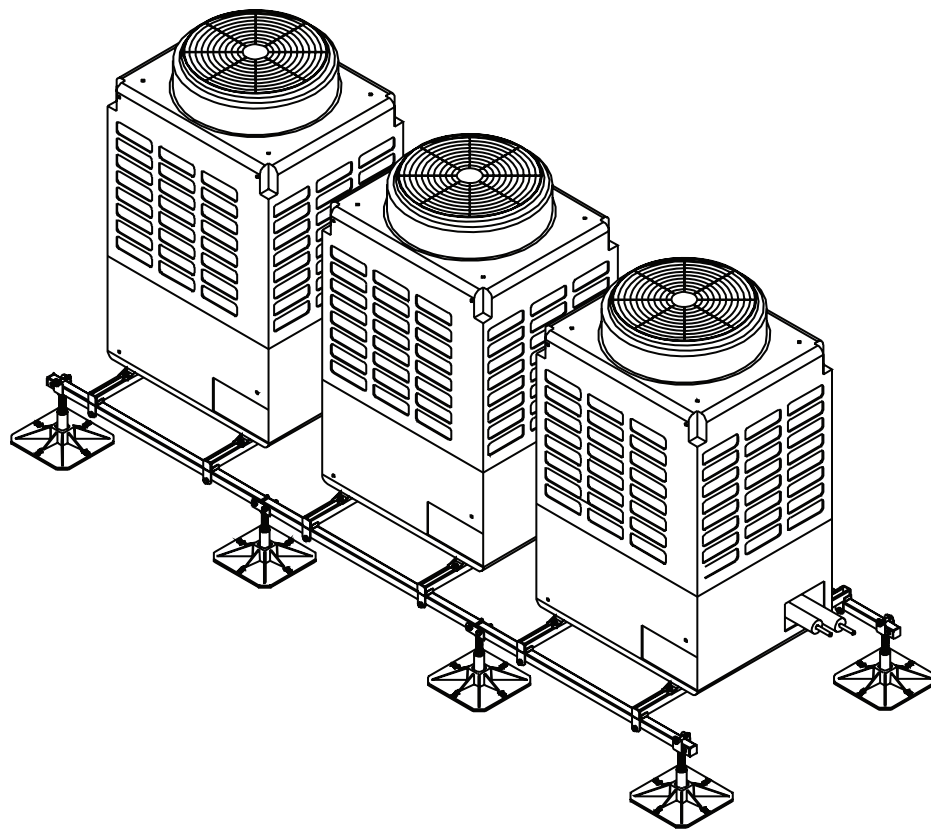
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



light

flexi light - flexi frames

Modular Frames for VRV/VRF Systems



Features & Benefits

- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- No time consuming clamping kits required, cross bars are industry standard strut fix
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services
- Available with Grey circular feet or Black square options



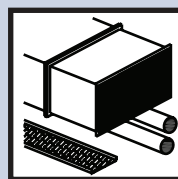
320mm square foot



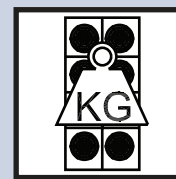
365mm dia foot



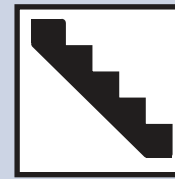
Pump House
Glaisdale Drive East
Nottingham
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www.flexisupportsystems.co.uk
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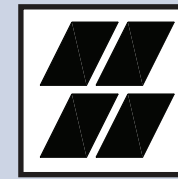
everyday



heavy



access



solar



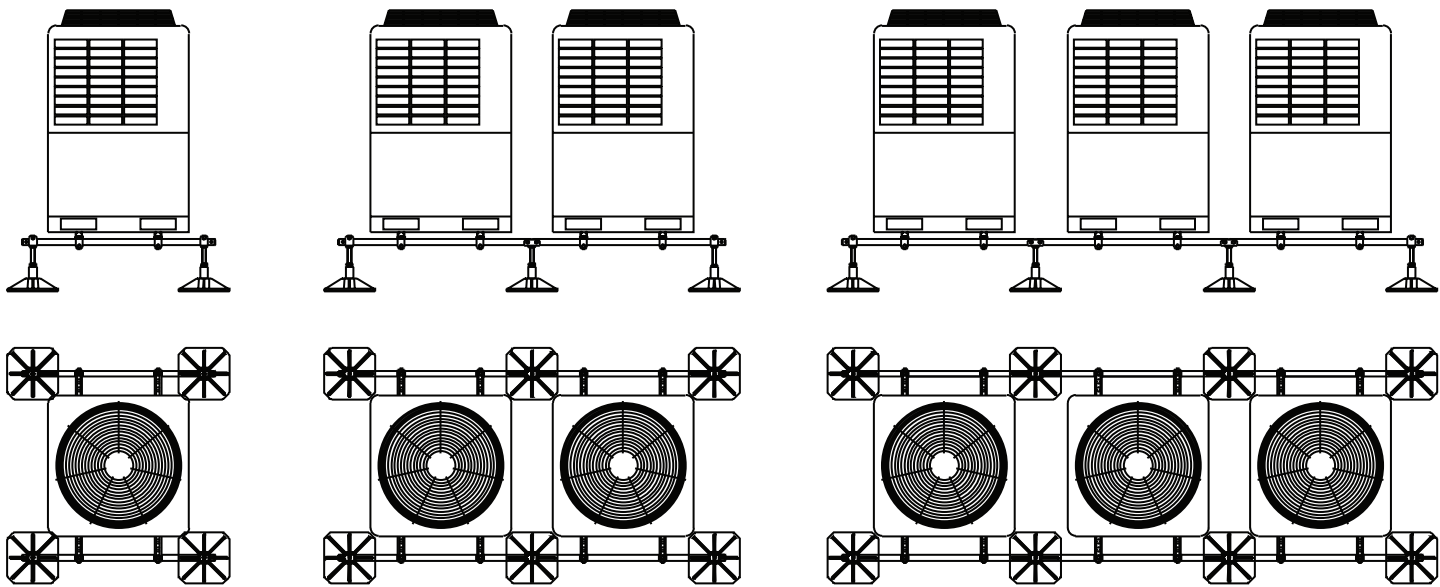
Flexi

flexi modular frames for VRV/VRF Systems

These versatile free standing frameworks are supplied boxed and come with fully adjustable leg assemblies and 320mm square black polypropylene feet as standard* incorporated anti-vibration rubber mats adhered to the underside. Robust 40 x 40mm standard box end bars are 3mm thick and leg assemblies can slide to many positions. Industry standard strut cross bars negate the requirements of time consuming clamping kits as sprung washers and associated M10 fixings are supplied with all frameworks. For heavier services please visit our 'flexi - heavy' range.

* Round grey 365mm dia feet can be supplied if preferred - please specify on order

Typical VRV/VRF System Layout



Part Code - PH-BF-B

Part Codes - PH-BF-B + PH-EF-B

Part Codes - PH-BF-B + 2 x PH-EF-B

Part Code	Description	Length	Width	Height	Weight	Max Load
PH-BF-B	Flexi - BASE FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	30 kg	500 kg
PH-EF-B	Flexi - EXTENDER FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	24 kg	500 kg

The system can accommodate any number of VRF / VRV UNITS simply by adding additional PH-EF-B (EXTENDER FRAMES)



Flexi

Specification Extract

External VRV/VRF services will be supported on Pump House fully adjustable and hot dip galvanised flexi frames. Contact Pump House Tel: 0115 900 5858.

Application

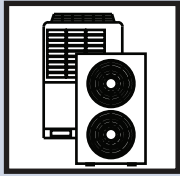
Suitable for VRV/VRF systems, cross bars slide to accommodate VRF fixing feet centres and negate the requirement of time consuming clamping kits (as seen with some systems), as industry standard sprung nuts and strut cross bars provide a very fast install.

Material Specification

- Foot - 320mm square or 365mm dia. round UV stabilised 100% polypropylene
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top
- End bars - 40x40x3mm SHS (square hollow section)
- Cross bars - 41x41x2.5mm slotted stut with adjustable end clamps
- Finish - Hot dip galvanised steelwork BS EN 10219:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

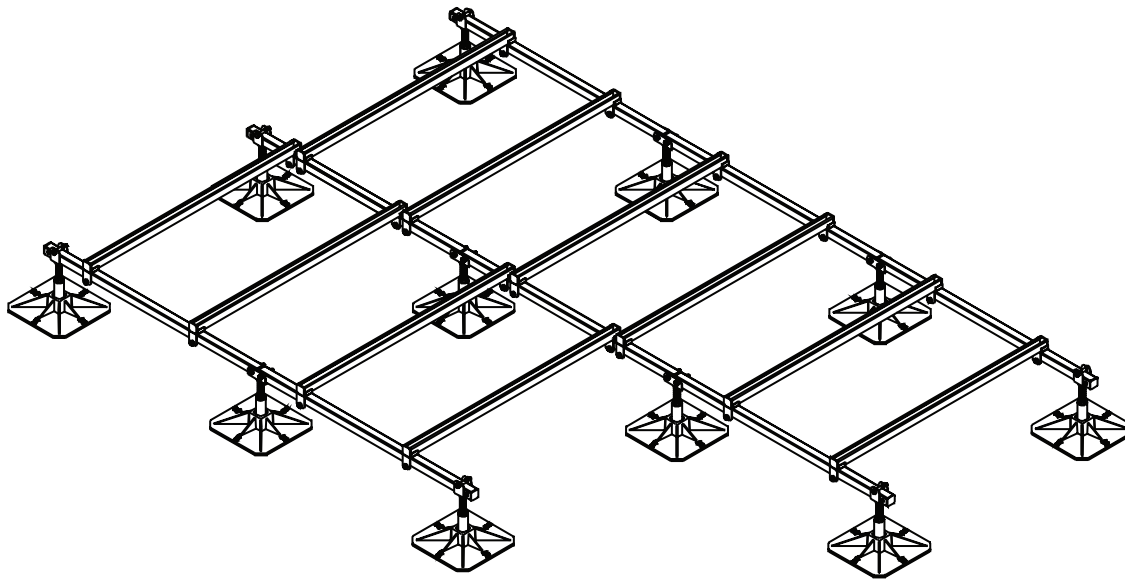
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



light

flexi light - flexi frames

Modular bespoke frames for project specific requirements to support HVAC services



Features & Benefits

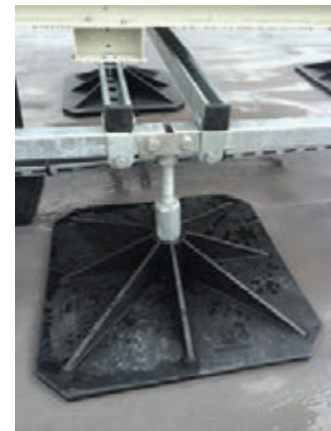
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Fully adjustable to roof falls
- No time consuming clamping kits required, cross bars are industry standard strut fix
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services
- Available with Grey circular feet or Black square options



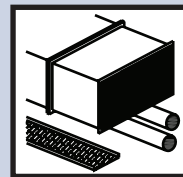
320mm square foot



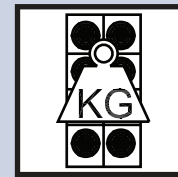
365mm dia foot



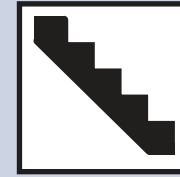
Pump House
Glaisdale Drive East
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NG8 4LY
Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



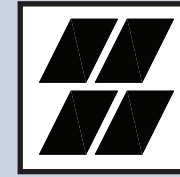
everyday



heavy



access



solar

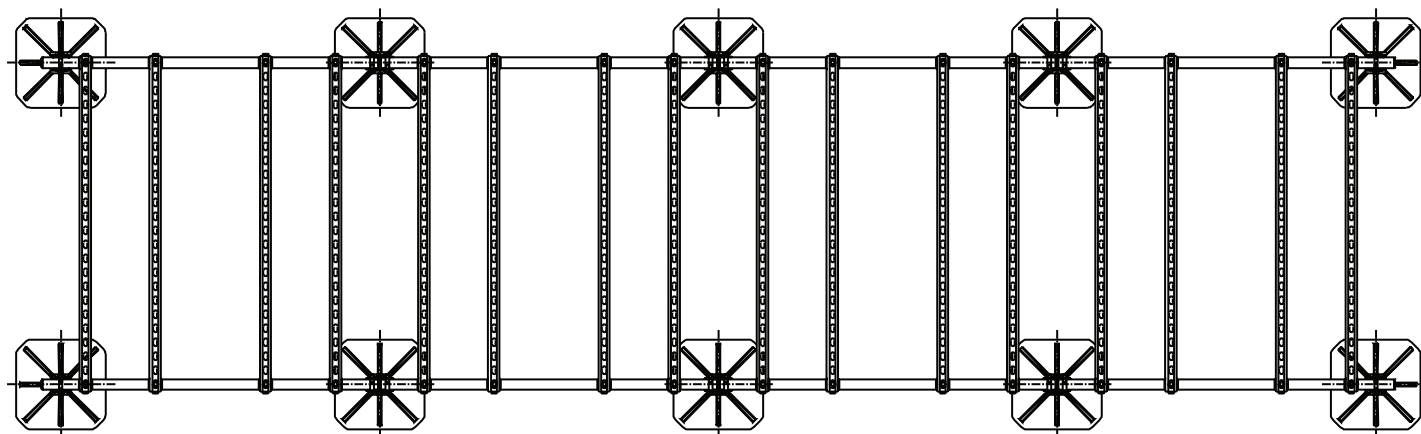


Flexi

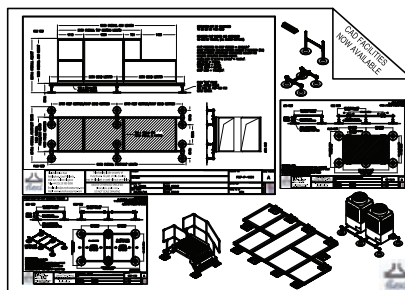
flexi bespoke frames for building services

Flexi modular bespoke frames have been designed to offer complete solutions for mounting and supporting a wide range of air handling, air conditioning and refrigeration equipment that fall outside our standard frame range. The flexibility of the product enables us to provide a variety of solutions in length, widths or heights to accommodate all eventualities. Whether there is a step in the roof design, significant roof falls or irregular shaped building services that require complete support, a bespoke solution will be available. For heavier services please visit our 'flexi-heavy' range.

Typical Bespoke Assembly



Our experienced in-house design team will assist you with your enquiry and propose a suitable solution. Utilising the latest industry AutoCAD software we provide working drawings to assist the project team with regards to setting out or for inclusion within specification packs should you require this. Free on-site support, which also includes a surveying service is also available upon request.



Part Code	Description	Length	Width	Height	Weight	Max Load
PH-BF-B	Flexi - BASE FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	30 kg	500 kg
PH-EF-B	Flexi - EXTENDER FRAME (Square Black Feet)	1200 mm	1200 mm	300-405 mm	24 kg	500 kg
PH-BF-1500-B	Flexi - BASE FRAME 1500 (Square Black Feet)	1500 mm	1500 mm	300-405 mm	33 kg	500 kg
PH-EF-1500-B	Flexi - EXTENDER FRAME 1500 (Square Black Feet)	1500 mm	1500 mm	300-405 mm	27 kg	500 kg



Flexi

Specification Extract

External services will be supported on Pump House fully adjustable and hot dip galvanised flexi frames. Contact Tel: 0115 900 5858.

Application

Support of irregular shaped building services, or where there are limitations due to space restrictions, existing obstacles etc. Industry strut cross bars slide to accommodate any air conditioning fixing feet centres and negate the requirements of time consuming clamping kits (as seen with some systems), as industry standards sprung nuts and strut cross bars provide a very fast install.

Material Specification

- Foot - 320mm square or 365mm dia. round UV stabilised 100% polypropylene
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top
- End bars - 40x40x3mm SHS (square hollow section)
- Cross bars - 41x41x2.5mm slotted stut with adjustable end clamps
- Finish - Hot dip galvanised steelwork BS EN 10219:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

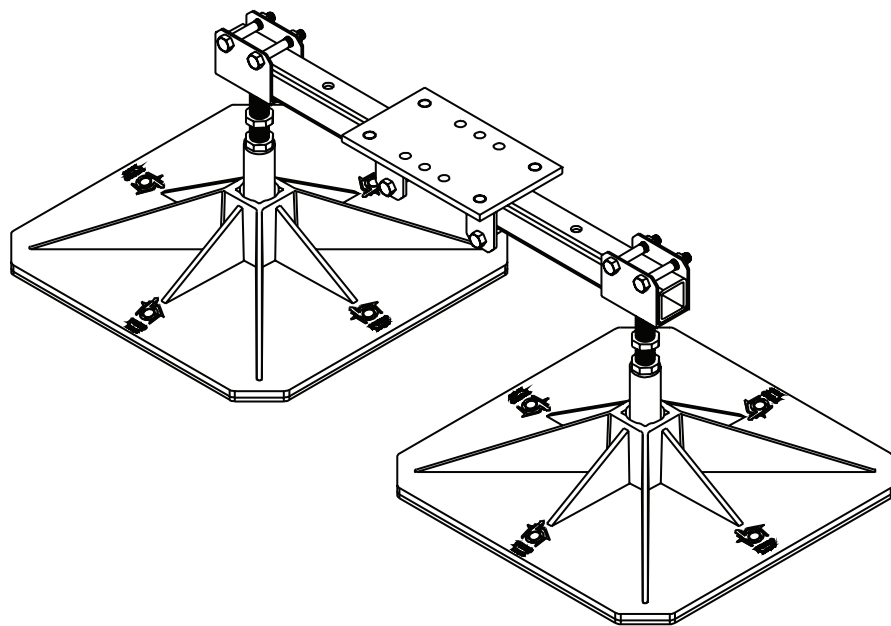
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



heavy

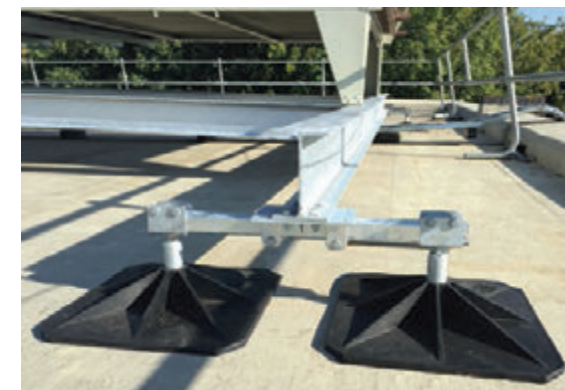
flexi heavy - flexi twin

Frames for large pipes, air handling units, chillers and packaged plant rooms.



Features & Benefits

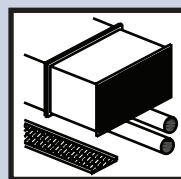
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Fully adjustable to roof falls
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



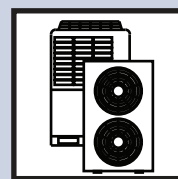
Twin-F-TWIN-500-A shown above with optional single mounting plate (F-TQ-ADJ-S)



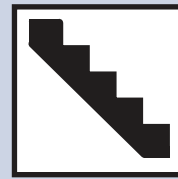
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 NG8 4LY
 Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



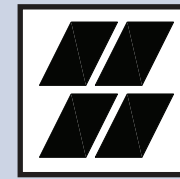
everyday



light



access



solar



Flexi

flexi Twin frames (large/heavy) building services

These robust & versatile free standing modular frames are supplied with fully adjustable leg assemblies in either our 365mm diameter or our 500mm x 500mm polypropylene feet that both incorporate anti-vibration rubber mats adhered to the underside. Robust 50 x 50mm box cross bars are 5mm thick to cater for mid-span point loads resulting in even load dispersal through the framework down to each foot. The optional mounting plate can also be purchased in addition or as an alternative to the adjustment being in the leg assemblies. Therefore a non-adjustable twin is also available.

Typical condenser support utilising 6no. F-TWIN-500-A (secondary steelwork was also supplied by us)



The TWIN/QUAD mounting plate (below) is an optional extra that can be purchased either with or without the secondary upper M16 mounting plate



Part Code - F-TQ-ADJ-D



Part Code - F-TQ-ADJ-S

Part Code	Description	Length	Width	Height	Weight	Max Load*
F-TWIN-500	Flexi TWIN (non adjustable legs)	1200 mm	500 mm	300 mm	35 kg	1000 kg
F-TWIN-500-A	Flexi TWIN (adjustable legs)	1200 mm	500 mm	240 - 370mm	37 kg	1000 kg
F-TQ-ADJ-S	Single Mounting Plate	250 mm	150 mm	-	1	-
F-TQ-ADJ-D	Double Mounting Plate	250 mm	150 mm	170 mm (adjustable)	3	-



Flexi

Specification Extract

External services will be supported on Pump House (Tel: 0115 900 5858) fully adjustable and hot dip galvanised flexi twin frameworks utilising 500 x 500mm square polypropylene feet.

Application

Suitable for heavier building services such as large air handling units, chillers and packaged plantrooms. Ideal solution when the criteria to target existing roof beams is necessary. The twin frames can be targeted immediately above to assist direct load transfer to existing roof beams below; a common requisite in weaker roof designs.

Material Specification

- Feet - 500mm square UV stabilised 90% polypropylene, 10% GRP
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 4mm thick U-clevis to top
- Secondary steelwork can be calculated and supplied by request.
- Cross bars - 50x50x5mm SHS (square hollow section) with optional mounting plate if required (e.g. specify T-TQ-ADJ-D for the adjuster shown left)
- Finish - Hot dip galvanised steelwork BS EN 102191:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

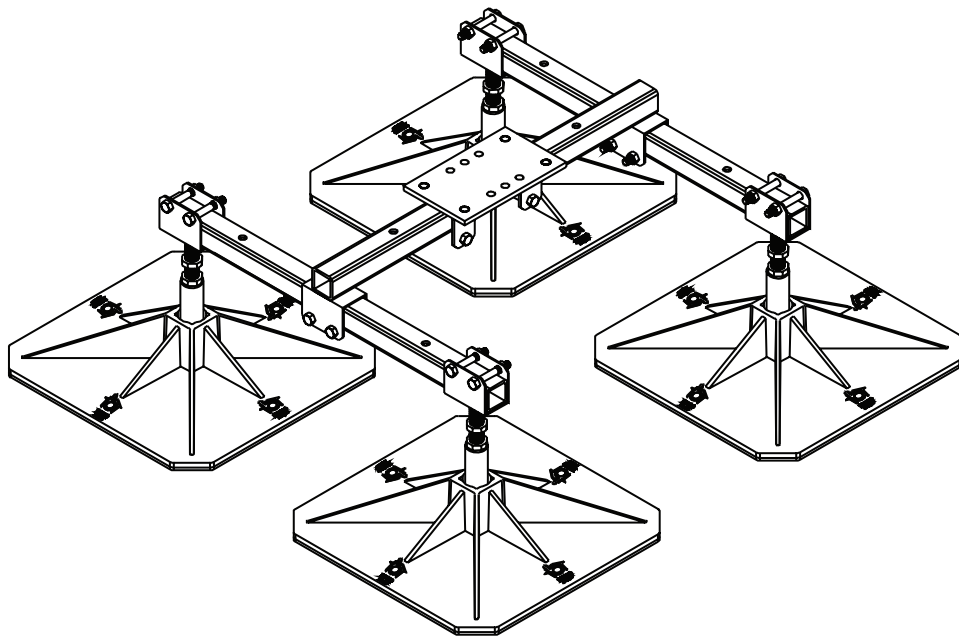
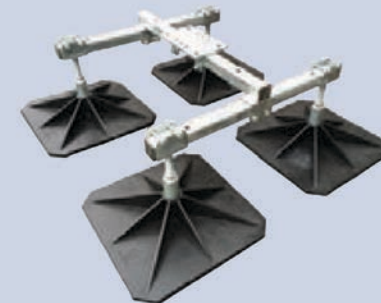
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



heavy

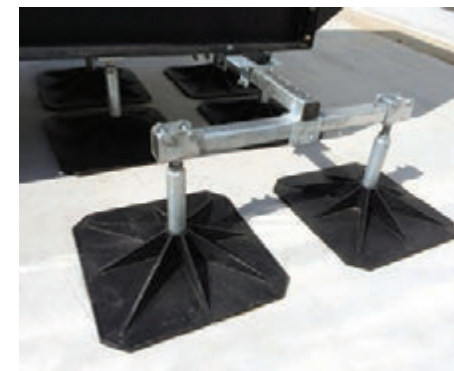
flexi heavy - flexi quad

Frames for larger air handling units, chillers and packaged plant rooms.



Features & Benefits

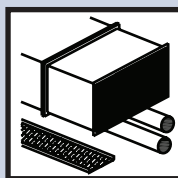
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Fully adjustable to roof falls
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



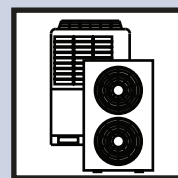
F-QUAD-500-A shown above with single mounting plate (F-TQ-ADJ-S)



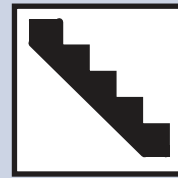
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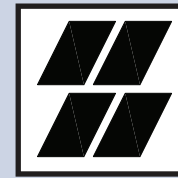
everyday



light



access



solar



Flexi

flexi Quad frames (large/heavy) building services

These robust & versatile free standing modular frames are supplied with fully adjustable leg assemblies and 500 x 500mm polypropylene feet which incorporate anti-vibration rubber mats adhered to the underside. Robust 50 x 50mm box end bars and cross bars both being 5mm thick in section, cater for picking up the point load mid span resulting in even load dispersal through the framework down to the feet. The optional adjuster plate can also be purchased and these are supplied with fixings. For lighter services supports, please visit our 'flexi-light' range.

Typical plantroom support utilising 8no. F-QUAD-500-A



The TWIN/QUAD adjuster (below) is an optional extra that can be purchased either with or without the secondary upper M16 mounting plate



Part Code - F-TQ-ADJ-D



Part Code - F-TQ-ADJ-S

Part Code	Description	Length	Width	Height	Weight	Max Load*
F-QUAD-500	Flexi QUAD (non adjustable leg)	1200 mm	1241 mm	354 mm	63 kg	2000 kg
F-QUAD-500-A	Flexi QUAD (adjustable leg)	1200 mm	1241 mm	294 - 424 mm	65 kg	2000 kg
F-TQ-ADJ-S	Single Mounting Plate	250 mm	150 mm	-	1	-
F-TQ-ADJ-D	Double Mounting Plate	250 mm	150 mm	170 mm (adjustable)	3	-

* Recommended safe working load. Loadings shown are dependant on roof build up and project structural engineer approval



Flexi

Specification Extract

External services will be supported on Pump House fully adjustable and hot dip galvanised flexi quad frameworks utilising 500 x 500mm polypropylene feet. Tel: 0115 900 5858

Application

Suitable for heavier building services such as large air handling units, chillers and packaged plantrooms. Quads are particularly useful for managing heavy loads, and as a direct replacement for the traditional concrete plinths as they can be re-positioned to accommodate late design changes.

Material Specification

- Feet - 500 x 500mm squared UV stabilised 90% polypropylene, 10% GRP
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top
- End bars - 50x50x5mm SHS (square hollow section)
- Cross bars - 50x50x5mm SHS with optional mounting plate if required (e.g specify F-TQ-ADJ-D for the mounting plate shown)
- Finish - Hot dip galvanised steelwork BS EN 10219:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

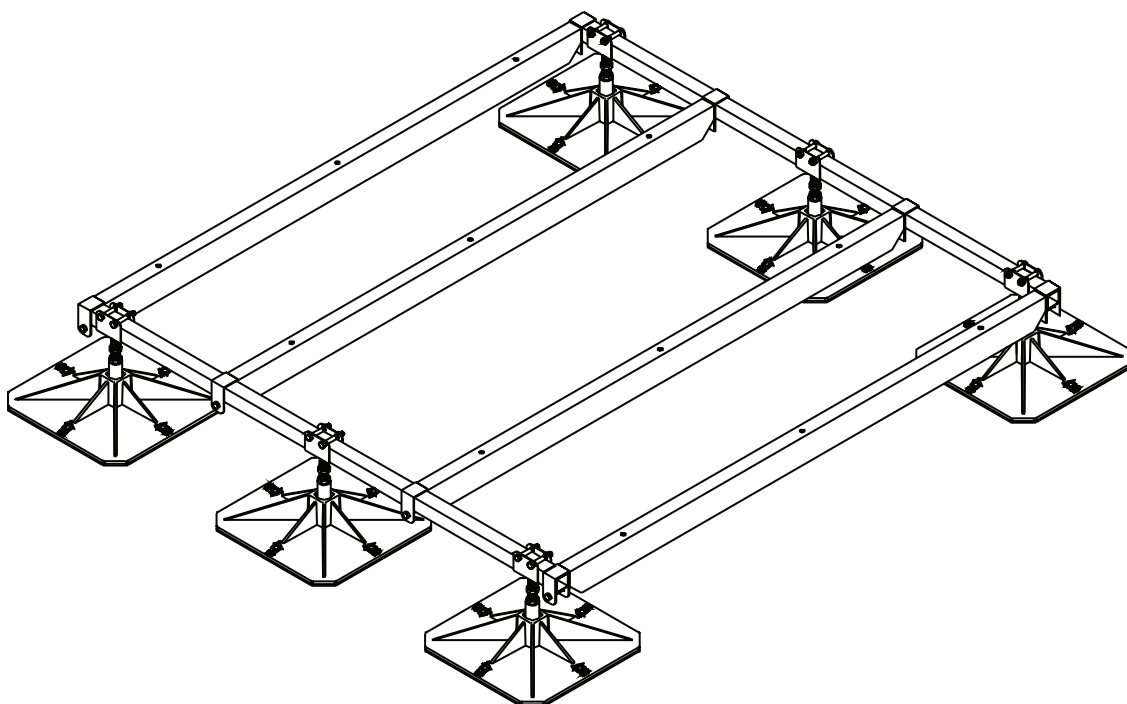
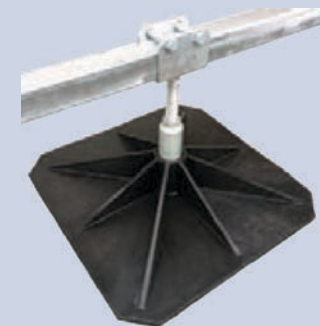
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



heavy

flexi heavy - flexi frames

Modular robust frames for large air handling units.

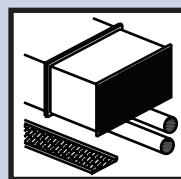


Features & Benefits

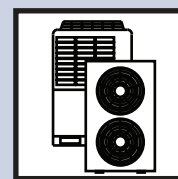
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- No time consuming clamping kits required, cross bars are industry standard strut fix
- Cross bars supplied with holes for second fix strut (by others)
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



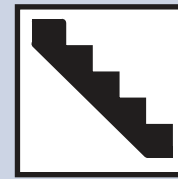
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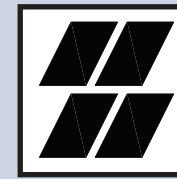
everyday



light



access



solar



Flexi

flexi heavy duty modular frameworks

These robust free standing modular frameworks are supplied with fully adjustable leg assemblies and 500 x 500mm polypropylene feet incorporating anti-vibration rubber mats adhered to the underside. Robust 50 x 50 mm square hollow section end bars are 2.5mm thick and are supplied with 100 x 50mm cross bars. With a variety of sizes available for both our end bars and cross bars, a suitable framework can be designed to suit many applications where a strong support is key. For lighter weight frames please look at the 'flexi-light' range.

Typical support layout

Other leg assembly variations for this system are available dependant upon application



Bar	SHS Section	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm
End Bar	50 x 50 x 2.5	F-EB-50-1000	F-EB-50-1500	F-EB-50-2000	-	-
Cross Bar	100 x 50 x 3.2	-	-	F-CB-100-2000	F-CB-100-2500	F-CB-100-3000



Flexi

Specification Extract

External building services will be supported on Pump House fully adjustable and hot dip galvanised flexi heavy duty frameworks utilising 500 x 500mm polypropylene feet. Tel: 0115 900 5858

Application

Suitable for heavier building services typically larger air handling units, chillers and air cooled condensers. Our unique 'drop on' cross bars offer a faster alternative when erecting the framework compared with some slide on systems.

Material Specification

- Foot - 500 x 500mm UV stabilised 90% polypropylene + 10% GRP
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - 48mm dia. 3mm steel tube with M24 stud adjuster and 4mm thick U-clevis to top
- End bars - 50x50x2.5mm SHS (square hollow section)
- Cross bars - 50x50x3mm & 100x50x3mm (square / rectangular hollow section)
- Finish - Hot dip galvanised steelwork BS EN 102191:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

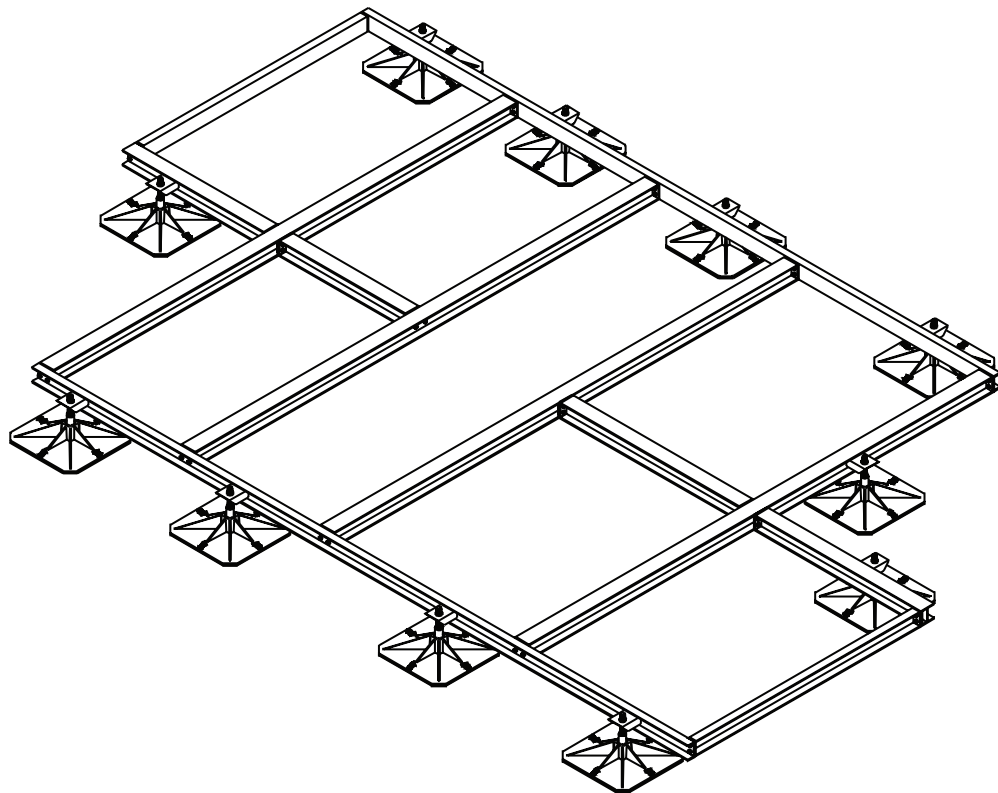
- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



heavy

flexi heavy - *flexi* custom frames

Custom robust frameworks for the support of complex and heavy building services.

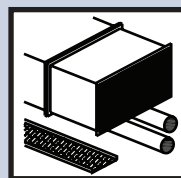


Features & Benefits

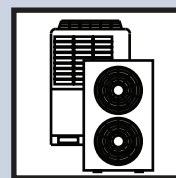
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Fully adjustable to roof falls
- Safe load management designed
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



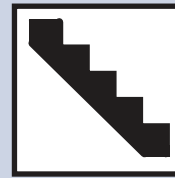
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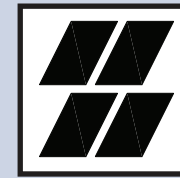
everyday



light



access



solar

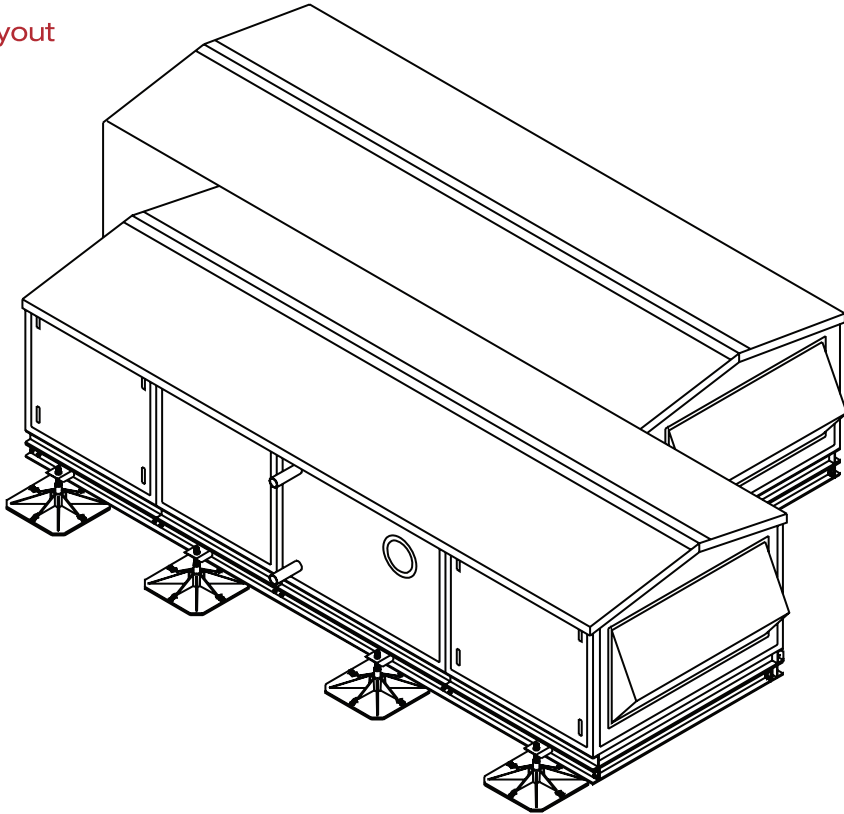


Flexi

flexi custom frames for building services

These custom solutions are frequently manufactured from 100 x 50mm parallel flange channel and/or 100 x 100mm HEB (european beam) and supported off fully adjustable leg assemblies utilising our larger 500 x 500mm polypropylene feet incorporating anti-vibration rubber mats adhered to the underside. However larger steel sections are available dependant on project requirements and/or the mass or size of the services being supported. All frameworks are finished hot dip galvanised and supplied with all fixings. We will provide the design team with an AutoCAD drawing proposal together with load calculations prior to manufacture.

Typical AHU layout



Information Required			
	AHU Requirements	Chiller Requirements	Packaged Plantroom Requirements
	1 Sectional quantity	AVM quantity & point loads	Sectional quantity
	2 Sectional dimensions	AVM dimensional locations	Sectional dimensions
	3 Sectional weight	Total weight (operating mass)	Total weight (operating mass)
	4 Overall dimensions & weight	Overall dimensions	Overall dimensions



Flexi

Specification Extract

Large chillers/AHU's/packaged plantrooms will be supported on Pump House fully adjustable and hot dip galvanised flexi heavy custom frame utilising 500 x 500mm polypropylene feet. Tel: 0115 900 5858

Application

Suitable for heavy chillers, packaged plantrooms, or complex shaped building services typically air handling units. Steelwork comes with all necessary fixings and the correct amount of leg assemblies/feet. These are manufactured within the UK offering a very fast lead time.

Material Specification

- Feet - 500 x 500mm UV stabilised 90% polypropylene + 10% GRP
- Mat - 100% natural rubber, (mat is adhered to the foot)
- Legs - Custom manufactured to suit most heights and welded to frames. Supplied with an M24 adjuster stud for levelling.
- Frame - dependant on load/span
- Finish - Hot dip galvanised steelwork BS EN 102191:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

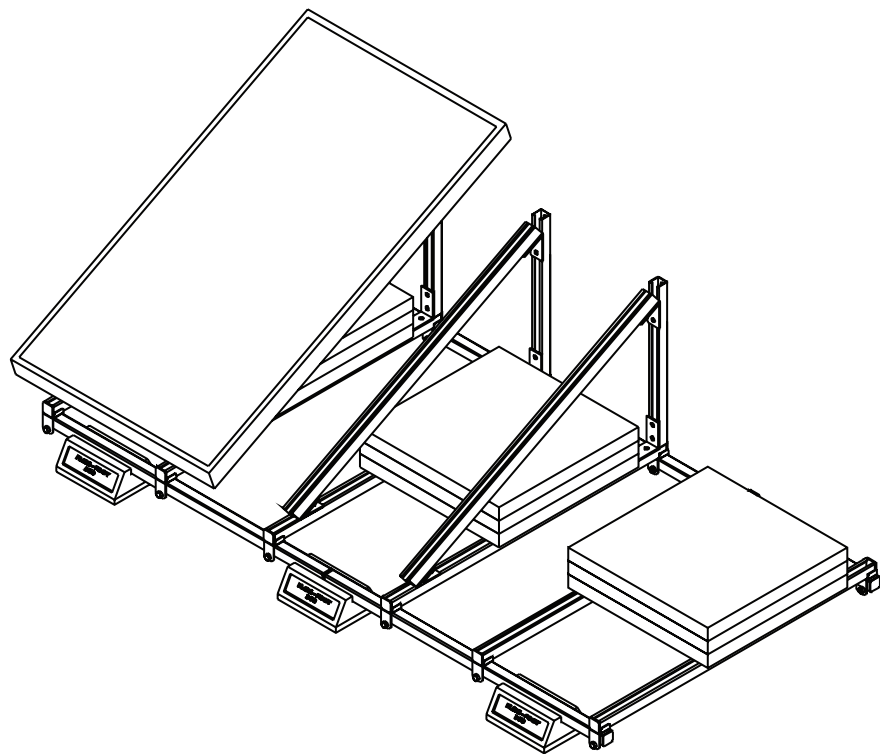
Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



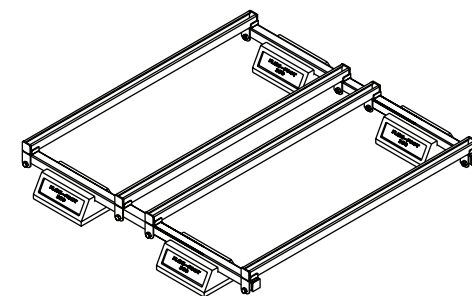
flexi solar - *flexi* foot

Non-adjustable frameworks for the support of solar PV panels & solar thermal



Features & Benefits

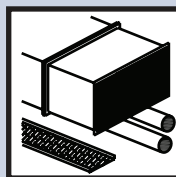
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Industry compatible standard components
- Custom layouts available to order
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



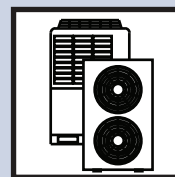
F-SP-3 System frame shown above. Note, ballast, strut 'A' frame and PV panel by others



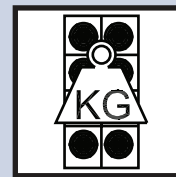
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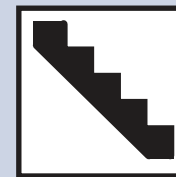
everyday



light



heavy



access

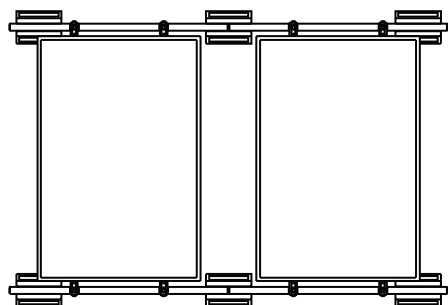


Flexi

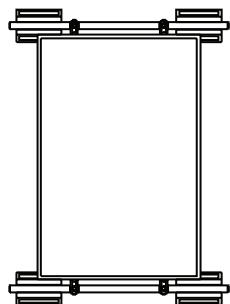
flexi solar frames for the renewables market

These low level & versatile free standing modular frames are supplied with our 'flexi-foot' universal feet. Designed for typical flat roofs with minimal falls or changes in height. End bars are a robust 40 x 40mm box section with 1500mm wide 41 x 41mm strut cross bars which provides an independent non-evasive support frame for the contractor to position their 'A' frames, solar panels and ballast accordingly. Our systems utilise industry standard compatible components and can accommodate most major manufacturers panel.

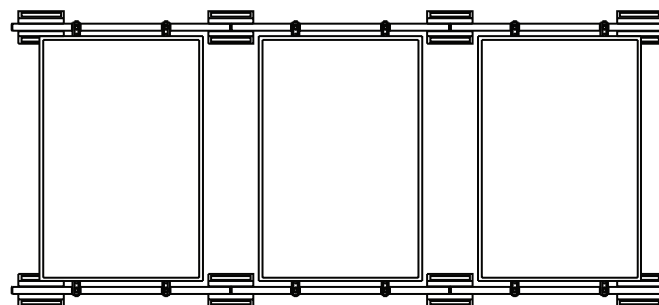
Typical support layout



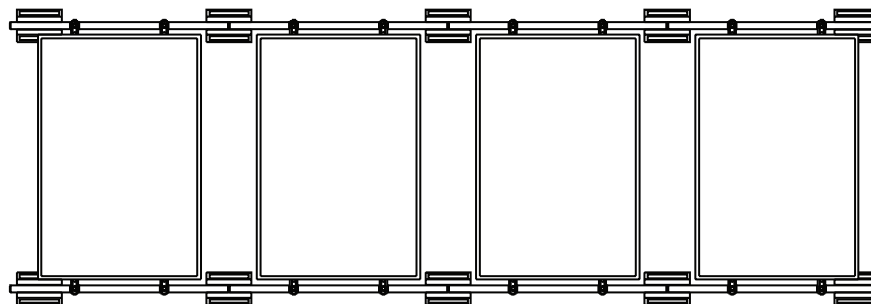
Part Code F-SP-2



Part Code F-SP-1



Part Code F-SP-3



Part Code F-SP-4

Part Code	Description	Panel Qty	Length	Width	Height	Frame Mass	Max Load
F-SP-1	Flexi - SOLAR 1 panel frame	1	1200 mm	1500 mm	120 mm	28 kg	500 kg
F-SP-2	Flexi - SOLAR 2 panel frame	2	2400 mm	1500 mm	120 mm	52 kg	1000 kg
F-SP-3	Flexi - SOLAR 3 panel frame	3	3600 mm	1500 mm	120 mm	78 kg	1500 kg
F-SP-4	Flexi - SOLAR 4 panel frame	4	4800 mm	1500 mm	120 mm	100 kg	2000 kg



Flexi

Specification Extract

Solar PV panels supported by hot dip galvanised frames incorporating 'flexi-foot' universal feet. Tel: 0115 900 5858.

Application

Suitable for the low level support of photovoltaic solar panels and solar thermal. Panel configuration and sizes would need confirming by the customer to ensure we supply a suitable solution. Required ballast and 'A' frame supplied by others.

Material Specification

- Foot - SBR recycled rubber BS7188:1989 + A2:2009 and BS EN 1176-7:2008 - UV Stabilised.
- For reference see BS EN 1991-1-4:2005 Eurocode: Actions on structures. Parts 1-4: General actions - wind action
- For reference see BRE digest 489: wind loads on roof based photovoltaic systems
- End bars - 40 x 40 x 3mm SHS (square hollow section)
- Cross bars - 1500mm long 41 x 41 x 2.5mm slotted strut with adjustable end clamps to provide flexible widths.
- Finish - Hot dip galvanised steelwork. BS EN 10219:1997. Galvanising BS EN ISO 1461:1999 Salt mist testing: BS EN 60068-2-52

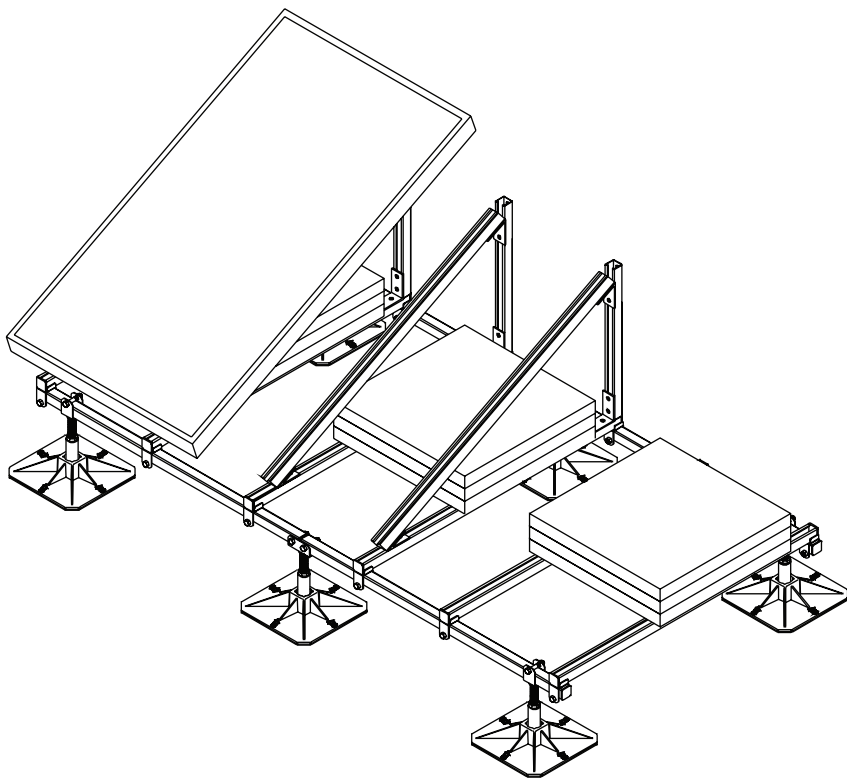
Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



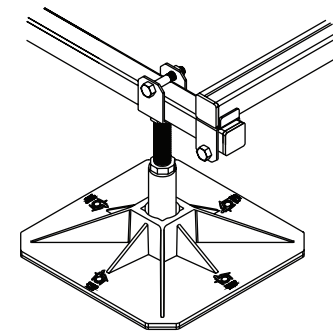
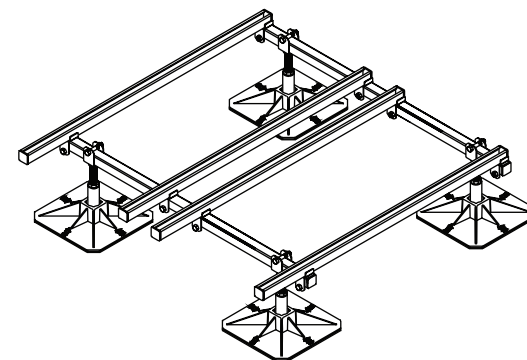
flexi solar - flexi frames

**Adjustable frameworks for the support
of solar PV panels & solar thermal**



Features & Benefits

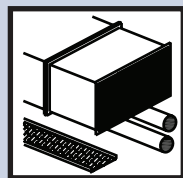
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Hot dip galvanised frameworks
- Industry compatible standard componentry
- Unique ability to position end bars and legs inboard of framework
- Full AutoCAD drawing support
- Load management and wind calculations available
- Full on-site support and surveying services



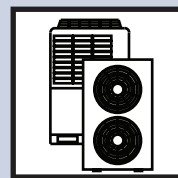
F-SP-3-A System frame shown above. Note, ballast, strut 'A' frame and PV panel(s) by others



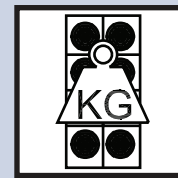
Pump House
Glaisdale Drive East
Nottingham
NG8 4LY
Tel: 0115 900 5858
www.flexisupportsystems.co.uk
sales@flexisupportsystems.co.uk



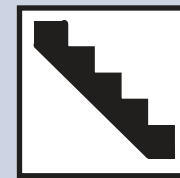
everyday



light



heavy



access

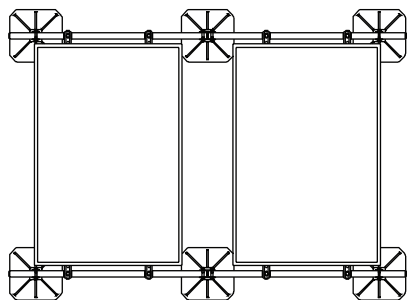


Flexi

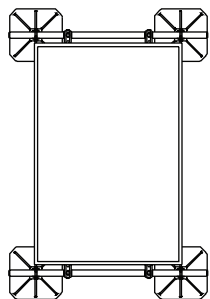
flexi solar foot frames for the renewables market

These versatile free standing modular frames are supplied with our fully adjustable leg assemblies utilising M24 adjuster studs to level frames where flat roofs have greater falls or changes in height. We can supply varying leg heights to accommodate steps in the roof finish, and all frameworks are supplied with our 320 x 320mm feet. End bars are a robust 40 x 40mm box section with 1500mm wide 41 x 41mm strut cross bars which provides an independent non-evasive support frame for the contractor to position their 'A' frames, solar panels and ballast accordingly. Our systems utilise industry standard compatible components and can accommodate most major manufacturers panels.

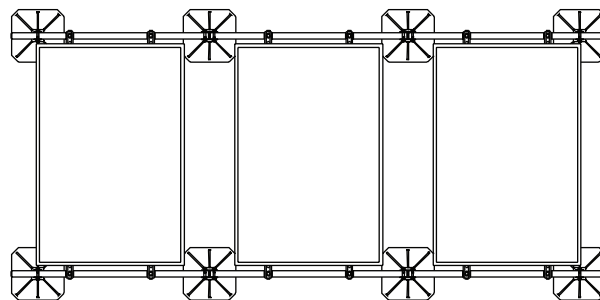
Typical support layout



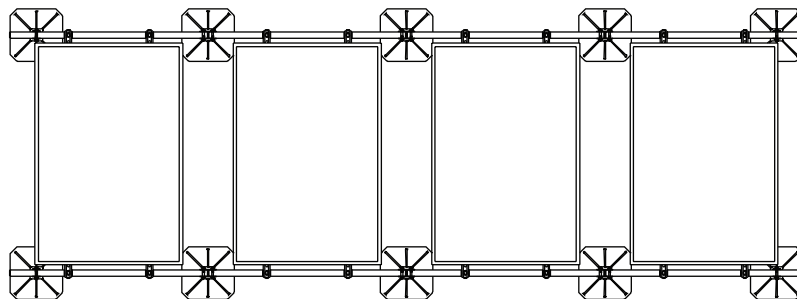
Part Code F-SP-2-A



Part Code F-SP-1-A



Part Code F-SP-3-A



Part Code F-SP-4-A

Part Code	Description	Panel Qty	Length	Width	Height	Weight	Max Load
F-SP-1-A	Flexi - SOLAR 1 panel adjustable frame	1	1200 mm	1500 mm	300 - 405 mm	30 kg	500 kg
F-SP-2-A	Flexi - SOLAR 2 panel adjustable frame	2	2400 mm	1500 mm	300 - 405 mm	54 kg	1000 kg
F-SP-3-A	Flexi - SOLAR 3 panel adjustable frame	3	3600 mm	1500 mm	300 - 405 mm	78 kg	1500 kg
F-SP-4-A	Flexi - SOLAR 4 panel adjustable frame	4	4800 mm	1500 mm	300 - 405 mm	102 kg	2000 kg



Flexi

Specification Extract

Solar PV panels supported by Pump House (Tel: 0115 900 5858) hot dip galvanised frames and supported on fully adjustable legs and 320mm square feet.

Application

Suitable for the support of photovoltaic solar panels and solar thermal. Panel configuration and sizes would need confirming by the customer to ensure we supply a suitable solution. Required ballast and 'A' frame supplied by others.

Material Specification

- Foot - 320mm square UV Stabilised 90% polypropylene + 10% GRP
- For reference see BS EN 1991-1-4:2005 Eurocode: Actions on structures. Parts 1-4: General actions - wind action
- For reference see BRE digest 489: wind loads on roof based photovoltaic systems
- End bars - 40 x 40 x 3mm SHS (square hollow section)
- Cross bars - 1500mm long 41 x 41 x 2.5mm slotted strut with adjustable end clamps to provide flexible widths.
- Finish - Hot dip galvanised steelwork. BS EN 10219:1997. Galvanising BS EN ISO 1461:1999 Salt mist testing: BS EN 60068-2-52

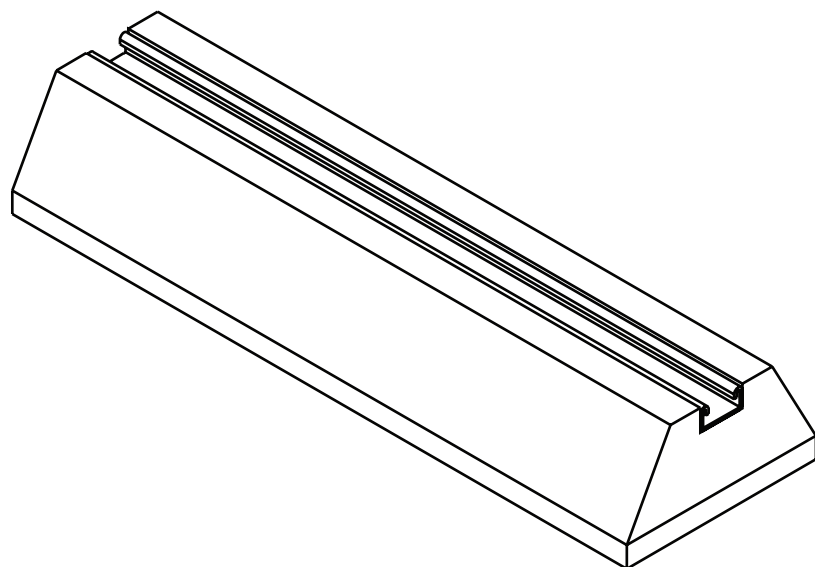
Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



flexi solar - *flexi* foot eco-packs

An economical solution for the support of solar PV and solar thermal

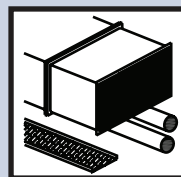


Features & Benefits

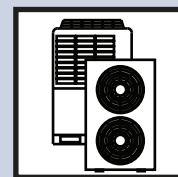
- Non-penetrative support
- Flexible design to accommodate late design changes
- Fast and simple installation
- Supplied with integrated 21 x 41mm steel strut, fully bonded to the foot, stronger than some aluminium alternatives.
- Drainage slots to the underside



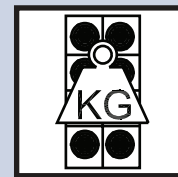
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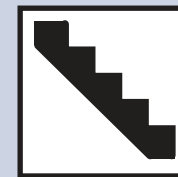
everyday



light



heavy



access



Flexi

flexi solar foot for the renewables market

Flexi Eco-Packs offer the installer a simplistic and fast solution for the support of Photovoltaic panels and Solar Thermal units where value engineering is required. Supplied in pairs, these 600mm long feet are also supplied with their own fixing pack, (M10 sets and sprung nuts), for rigid securing to the A frame. These feet offer a base foundation to secure a length of cable tray which in turn acts as a carrier for the concrete paving slab ballast. The feet are manufactured from dense SBR recycled rubber and house an integrated length of 21x41mm hot dip galvanised strut bonded to the foot. A frame, tray and ballast are supplied by others.

Typical installation Part Code - FF-600-S-2 (shown below)



Part Code	Description	Length	Width	Height	Weight	Max. Load
FF-600-S-2	Flexi FOOT - 600mm Strut & Fixings	600 mm	185 mm	100 mm	7.6 kg	420 kg



Flexi

Specification Extract

External Solar PV / Solar Thermal will be supported on Pump House flexi foot.
Tel: 0115 900 5858

Application

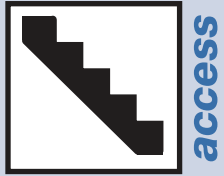
Suitable for the support of Photovoltaic and Solar Thermal panels avoiding the need to puncture the roof membrane. A Frame, tray and ballast supplied by others. Feet supplied with fixings to secure carrier tray, (cable tray).

Material Specification

- Foot - SBR recycled rubber BS7188:1989 + A2:2009 and BS EN 1176-7:2008 - UV stabilised
- Strut - 41x41x2.5 steel strut hot dip galvanised steelwork. BS EN 10219:1997
- Finish - Galvanising: BS EN ISO 1461:1999
- Robust high quality materials used
- Channel is compatible with industry standard fixings and fixtures
- Suitable for internal or external environments in temperatures between -40°C to +80°C. BS EN 60068-2-14:2009

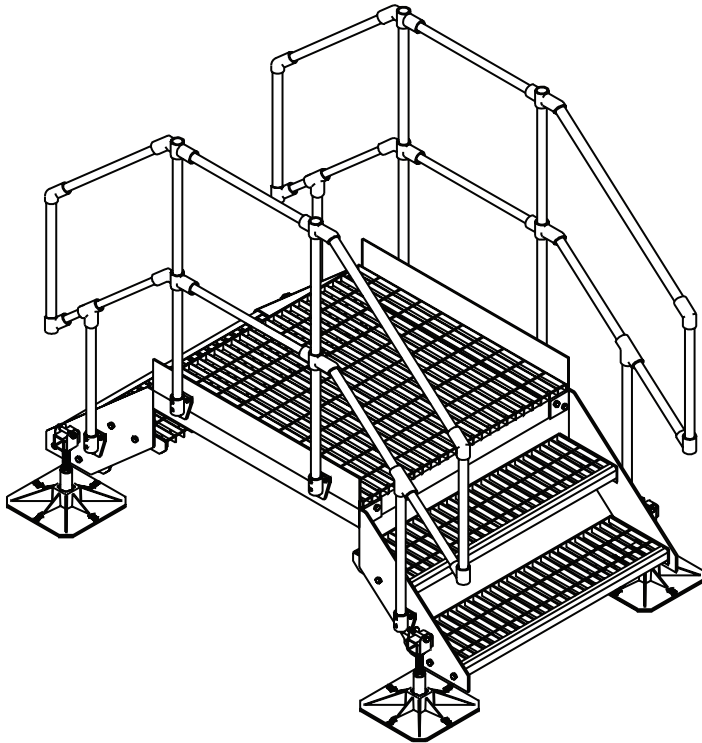
Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery (FREE on large orders)
- Experienced in-house technical staff
- Friendly, family run business



flexi access - *flexi* Step-Over

Safe access solutions designed and manufactured to current British Standards

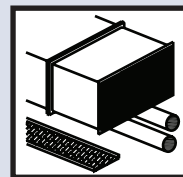


Features & Benefits

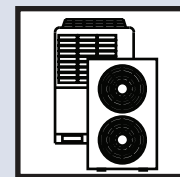
- Non-penetrative support
- Site survey available
- Fast and simple installation
- Hot dip galvanised frameworks
- Fully working drawings prior to manufacture
- British Standard compliant and meets the Work at Height Regulations Act 2005
- Full AutoCAD drawing support offered
- Load management and wind calculations available
- Full on-site support and surveying services



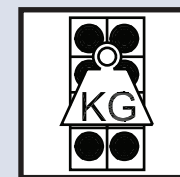
Standard 2 step - Step-Over shown above (F-SO-2) supplied with 1000mm square landing and full handrail & kick plates.



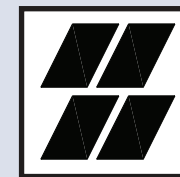
everyday



light



heavy



solar



Flexi

flexi safe access standard and custom solutions

With the introduction of the work at height regulations back in 2005, the regulations apply to all work at height where there is a risk of a fall liable to cause personal injury. This regulation places duty on employers, the self employed and any person that controls the work of others, e.g. facility managers, building owners/end users etc. Flexi access solutions are designed to current British Standards; we offer full working drawings, site surveys and all our access range is manufactured in the UK. GRP options are also available upon request. So whether it's a cat ladder, companion way ladder, stairs, ramps, walkways or a combination of all these, flexi access will provide you and your workforce with a safe access solution. We can also offer a custom design service to suit your needs.

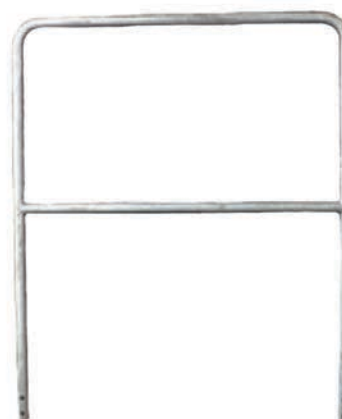
Typical Hop-Over - ideal to bridge over low level pipework and cable trays



Part Code - F-HO-1000 Hop-Over with optional handrails



Part Code - F-HO-600 Hop-Over with optional handrails



Part Code - F-HO-HR Handrail (optional) these are sold separately

Part Code	Description	Tread Qty	Landing Size	Clearance Height	Foot Size
F-SO-2	Flexi Step Over 2up / 2 down	2up / 2 down	1000 mm x 1000 mm	560 mm	320 mm x 320 mm
F-SO-3	Flexi Step Over 3up / 3 down	3up / 3 down	1000 mm x 1000 mm	780 mm	320 mm x 320 mm
F-SO-4	Flexi Step Over 4up / 4 down	4up / 4 down	1000 mm x 1000 mm	1000 mm	320 mm x 320 mm
F-HO-600	Flexi Hop Over - 600 mm	-	1000 mm x 600 mm	180 mm	320 mm x 320 mm
F-HO-1000	Flexi Hop Over - 1000 mm	-	1000 mm x 1000 mm	180 mm	320 mm x 320 mm
F-HO-HR	Flexi Hand Rail for Hop Over	-	-	-	-



Flexi

Specification Extract

Standard/custom access to be supplied by Pump House, fully adjustable and hot dipped galvanised solutions and supported on 320mm square UV stabilised 100% polypropylene feet. Tel: 0115 900 5858

Application

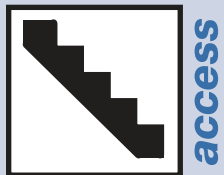
Step-Overs to bridge over ducts, pipes and electrical containment; custom solutions to access maintenance doors to AHU's, chillers or other rooftop services, ramped access solutions where wheelbarrow/sack barrows are used and straight-forward elevated access solutions. Cat ladders and companion way ladder also available.

Material Specification

- Foot - 320mm square UV stabilised 100% polypropylene
- Mat - 320mm feet only, 100% natural rubber, (mat is adhered to the foot)
- Legs - Step-Overs 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top. Hop-Overs 40 x 40 x 2mm SHS
- Handrails - Step-Overs 33.7mm diameter mild steel.
- Treads/Flooring - 25 x 3mm open grid flooring. (41/100 bearing bars) and designed to 7.5kN/m² loading BS:4592 part 1
- Finish - Hot dip galvanised steelwork BS EN 10219:1997. Galvanising: BS EN ISO 1461: 1999. Salt mist testing: BS EN 60068-2-52

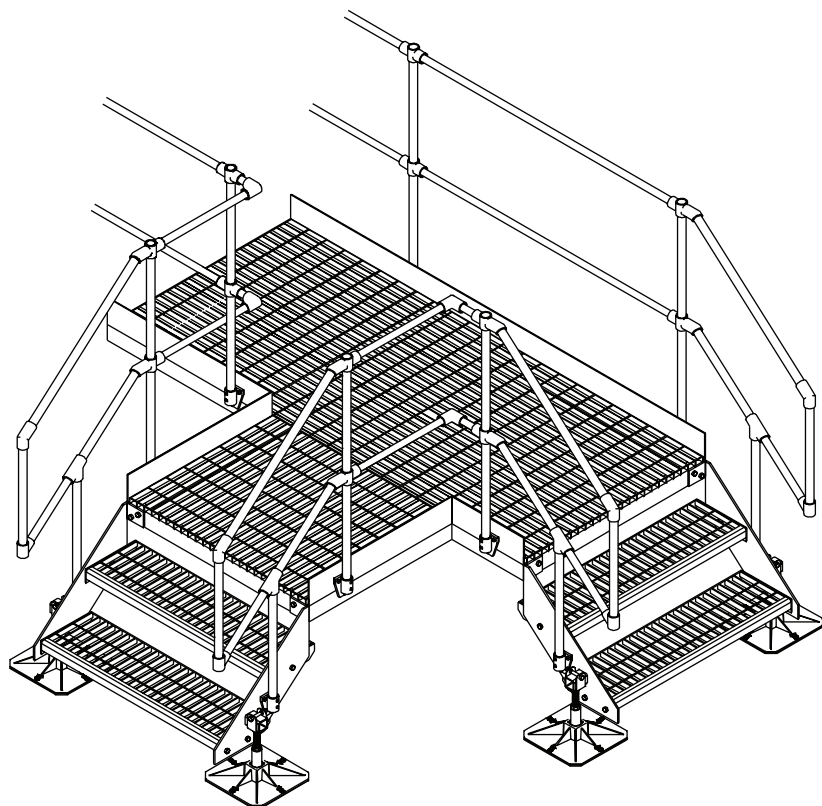
Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business



flexi access - *flexi* custom platforms & walkways

A tailored solution to fit around existing rooftop building services

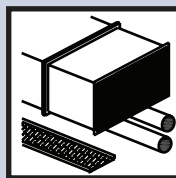


Features & Benefits

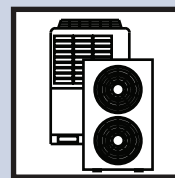
- Non-penetrative access solutions
- Site survey carried out by us
- AutoCAD drawings forwarded for approval prior to manufacturing start
- Supplied flat packed in kit form for easy handling
- Complies with current British Standards
- Safeguards the workforce from rooftop falls
- Protection to the building owner / end user with regards to The Work at Height Regulations 2005.



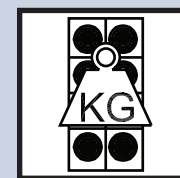
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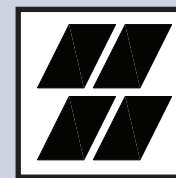
everyday



light



heavy



solar

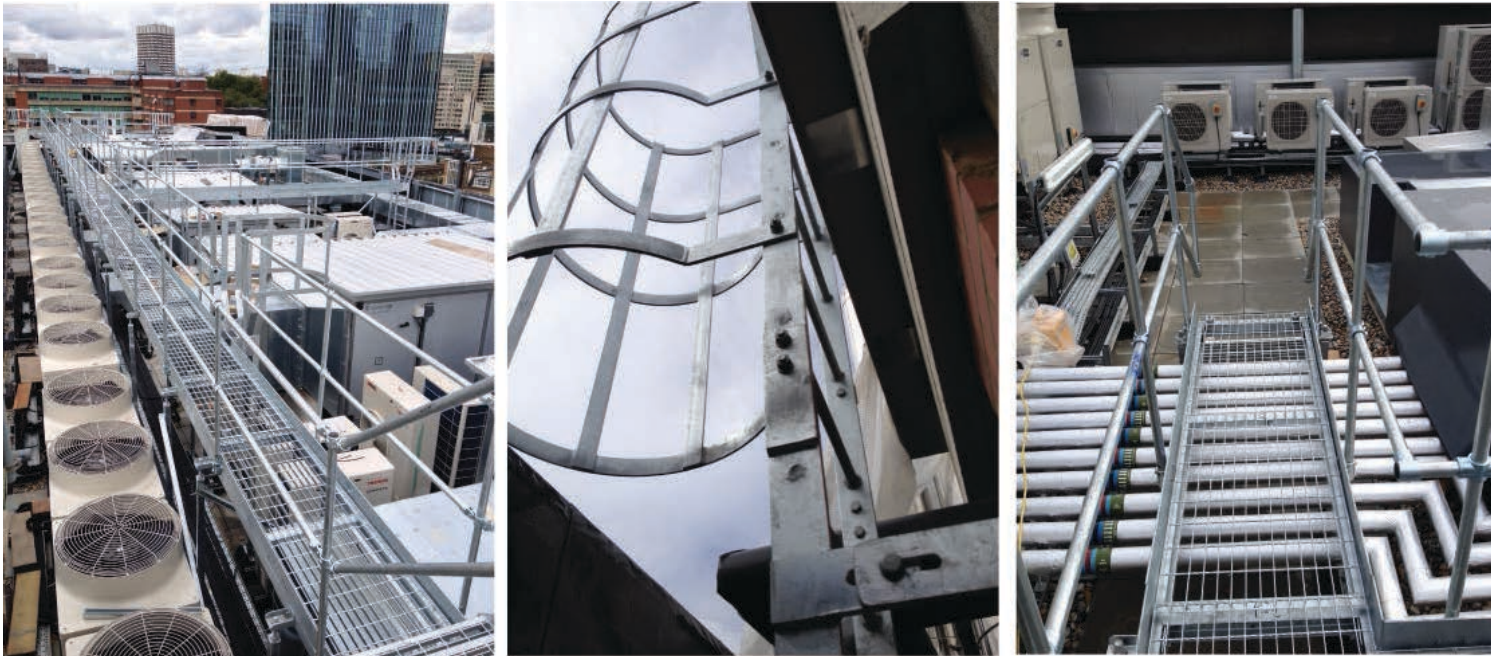


Flexi

flexi custom platforms and walkway solutions

Flexi custom platforms and walkways are designed to provide solutions for maintenance and fire exit access. Pump House can attend site and carry out a thorough site survey from which we will generate working AutoCAD drawings.

These will be forwarded for approval to the project team prior to manufacture. They are manufactured from mild steel with a hot dip galvanised finish. Alternatively we can offer aluminium or GRP solutions upon request. Designed to comply with British Standards these versatile and easy to assemble solutions are supplied with M24 adjustable legs, (to cater for the roof fall), and supported by our 320mm square feet.



Pump House supply access solutions that utilise stairs, companion way ladders or cat ladders, or a combination of all of these. Ramped access solutions are also available upon request.

Manufactured to current British standards, Pump House supply the solutions flat packed with all necessary fixings for quick assembly on site by others.

We offer an efficient manufacturing and galvanising process and can supply goods to site usually within 10 - 15 working days.



Flexi

Specification Extract

Access platform will be supplied by Pump House Flexi custom access solutions Tel: 0115 900 5858

Application

Generally positioned on flat roofs providing access to rooftop building services and fire exit access solutions

Material Specification

- Foot - 320mm square UV stabilised 100% polypropylene
- Mat - 320mm feet only, 100% natural rubber, (mat is adhered to the foot)
- Legs - Step-Overs 48mm dia. 3mm steel tube with M24 stud adjuster and 3mm thick U-clevis to top. Hop-Overs 40 x 40 x 2mm SHS
- Handrails - 33.7mm dia. Kee Klamp (or similar) c/w interchangeable fittings. Hop-Overs 33mm dia. RHS.
- Treads/Flooring - 25 x 3mm open grid flooring. (41/100 bearing bars) and designed to 7.5kN/m² loading BS:4592 part 1
- Finish - Hot dip galvanised steelwork BS EN 10219:1997. Galvanising: BS EN ISO 1461:1999. Salt mist testing: BS EN 60068-2-52

Our service offers you

- Quotation upon request
- Full AutoCAD drawings support
- Site support and site surveys
- Load management calculations
- 20 years experience in flat roof design and providing support systems to building services
- Fast delivery
- Experienced in-house technical staff
- Friendly, family run business

there's more under our roof....



EASY~FIT



FIXINGS



FLEXI



INSTALL +



PARTNERS



PH FAMILY



PHF MOTORS



PORTABLES



SERVICE +



SQUEEZY

Pump House, Glaisdale Drive East, Nottingham NG8 4LY ☎ 0115 900 5858

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