

AlvinKeyClamp.co.uk

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CATALOGUE

Introduction

The Alvin Key Clamp brand has provided a modular tube and clamps systems since before 1940. Today sees four predominate product ranges consisting of **KEY CLAMPS AND TUBE**, **QUICK HAND RAIL KITS**, **FREESTAND ROOF EDGE PROTECTION** and **DDA HAND RAILS**.

The range of **KEY CLAMPS AND TUBE** is at the core of all the ranges. It is most commonly used to build hand rails, however this versatile product can be used to construct almost anything.

The **QUICK HAND RAIL KITS** have been developed to speed up the process of both quoting and installation. The range consists of pre-assembled uprights and horizontal tubes cut to length.

The **FREESTAND SYSTEM** has been developed for use on flat roof where an edge protection is required. This system does not penetrate the roof membrane so does not compromise the roof integrity.

Alvin Key Clamps also has a **DDA (DISABILITY DISCRIMINATION ACT) HAND RAIL SYSTEM** which complies with the requirement of the DDA building regulations part M.

We are ISO9001:2008 accredited demonstrating we have a robust quality management system, independently inspected and approved, to ensure our customers get the best service available.



For more information on each of the ranges, to compile quotes and place orders please visit our website WWW.ALVINKEYCLAMP.CO.UK. Alternatively you can contact our sales team on 020 8254 2626.



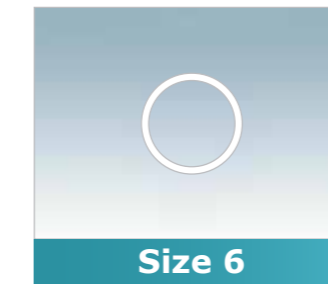
Key Clamps & Tube

The Alvin Key Clamp system is easily constructed and requires no specialist trained fitting. With the variety of fittings that we stock at AlvinKeyClamp.co.uk you are able to construct a variety of structures including handrails and barriers, shelving and racking, desks, banner stands, cricket nets and much more.

The clamps and tubes are available in 5 different sizes



Size 5
Outer diameter 26.9mm
Circumference 84.5mm
Nominal bore 20mm
Wall thickness 2.6mm



Size 6
Outer diameter 33.7mm
Circumference 105.9mm
Nominal bore 25mm
Wall thickness 3.2mm



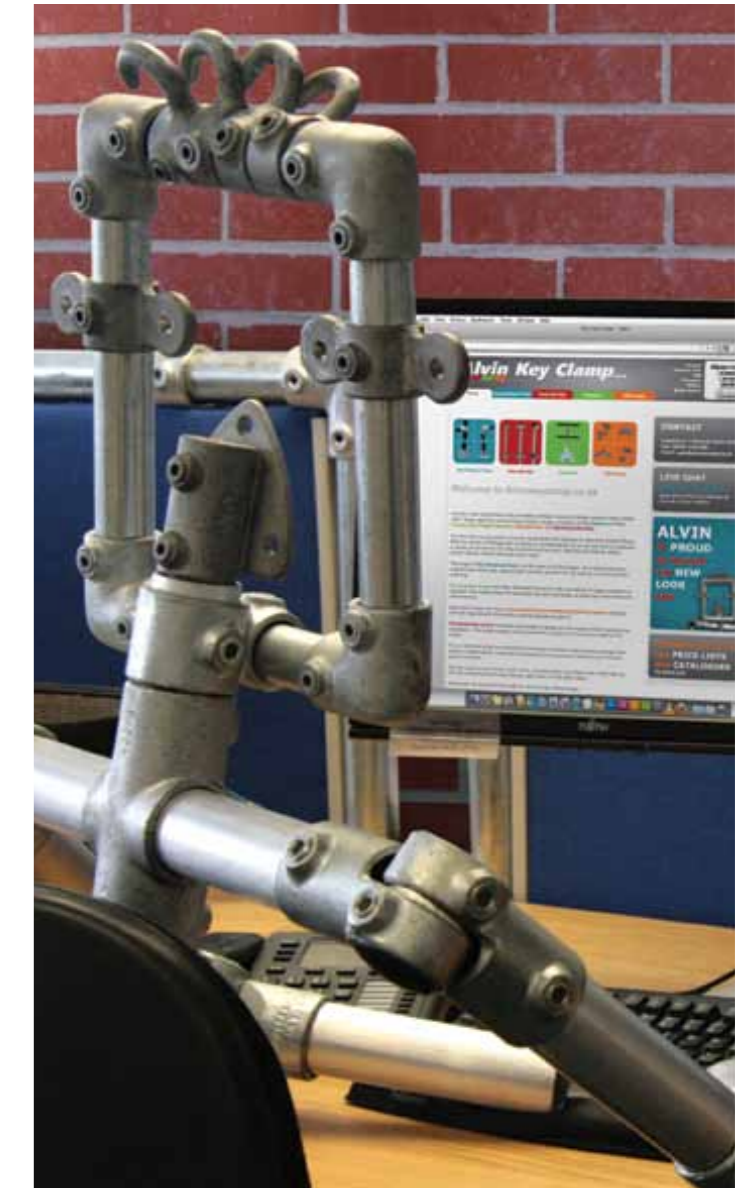
Size 7
Outer diameter 42.4mm
Circumference 133.2mm
Nominal bore 32mm
Wall thickness 3.2mm



Size 8
Outer diameter 48.3mm
Circumference 151.7mm
Nominal bore 40mm
Wall thickness 3.2mm



Size 9
Outer diameter 60.3mm
Circumference 189.4mm
Nominal bore 50mm
Wall thickness 3.6mm





A2
available in sizes: 5 6 7 8 9
Provides a 90° T connection between two tubes. Commonly used for the joint between the end post and lower rail.



A3
available in sizes: 5 6 7 8 ~~9~~
Variable angle tubes can be connected between angles of 30° and 60°. Mostly used for angled top rail to vertical post.



A4
available in sizes: 5 6 7 8 9
Provides a 90° T connection between two tubes. Commonly used for the joint between the top rail and a vertical post.



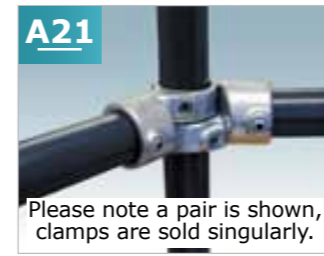
A6
available in sizes: 5 6 7 8 9
90° elbow joint. Commonly used for the termination of the top rail to the last post of a handrail.



A7
available in sizes: ~~5~~ 6 7 8 ~~9~~
Can join two tubes with an angle range of 105-165°.



A20
available in sizes: 5 6 7 8 9
A 90° corner joint, tube passes through the central hole. Used frequently for a lower rail.



A21
Please note a pair is shown, clamps are sold singularly.
available in sizes: 5 6 7 8 9
Allows angles between 90°-180°. Requires a central tube at the point of angle change.



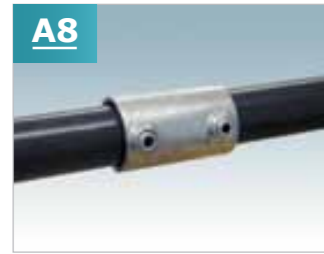
A22
available in sizes: 5 6 7 8 9
2 Socket Cross commonly connects lower rail to a vertical post, the vertical post must remain continuous.



A23
available in sizes: ~~5~~ 6 7 8 ~~9~~
Variable angle clamp enables tubes to be connected between angles 30° - 45°. Commonly used for angled lower rails.



A24
available in sizes: 5 6 7 8 9
Frequently used to tie uprights with horizontal tubes in three directions all at 90° to the upright.



A8
available in sizes: 5 6 7 8 9
Provides a rigid joint for two tubes of the same diameter.



A9
available in sizes: ~~5~~ 6 7 8 ~~9~~
Provides a flush joint for two tubes of the same diameter.



A10
available in sizes: 5 6 7 8 9
A four holed plate providing a rigid fixing to a wall. NOT to be used as a structural fixing for supporting vertical posts.



A11
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~
A structural base plate for a vertical post that allows for the fixing of toe/kick boards.



A12
available in sizes: 5 6 7 8 9
A structural base plate for a vertical post.



A26
available in sizes: 5 6 7 8 9
This clamp ties a centre upright with 4 horizontal tubes. All connections are at 90° to each other.



A28
available in sizes: 5 6 7 8 9
Gives 90° crossover joint. Rails are passed through in long lengths.



A30
available in sizes: 5 6 7 8 9
This clamp is used on racking for the 90° connection of a vertical support to a horizontal load carrying rail.



A31
available in sizes: ~~5~~ 6 7 8 ~~9~~
Offset handrail spigot clamp accepts tube through top of the 'T'. The spigot inserts directly into another clamp.



A32
available in sizes: 5 6 7 8 9
Used for adding to and modifying an existing structure. Similar to the A2.



A14
available in sizes: ~~5~~ 6 7 8 ~~9~~
Base for vertical posts for side mounting. Posts stand off from structure. Tube cannot pass through this clamp.



A15
available in sizes: ~~5~~ 6 7 8 ~~9~~
Structural base for side mounted vertical post. Clamp is virtually flush. Tube does not pass through clamp.



A16
available in sizes: ~~5~~ 6 7 8 ~~9~~
Provides a structural base plate as the A14, should not be used for heavy duty applications.



A17
available in sizes: ~~5~~ 6 7 8 ~~9~~
Ground socket usually cast into concrete. Posts retained with a locking set screw, can be easily removed if required.



A18
available in sizes: 5 6 7 8 9
Provides a three way 90° corner joint. Used frequently for a top rail 90° turn where a post is present.



A34
available in sizes: 5 6 7 8 ~~9~~
Used to carry handrails along walls or fix structure back to walls. Also for fixing hoardings, signs etc.



A36
available in sizes: 5 6 7 8 9
This is part of the A44. It can be used on its own for the insertion of signs/hoardings within a tubular frame.



A37
available in sizes: ~~5~~ 6 7 8 ~~9~~
This clamp is a variant of the A36 where the flange is flush with the edge of the clamp.



A38
available in sizes: 5 6 7 8 9
Similar to the A36 but with two eyelets. This is a part component of the A46.



A40
available in sizes: 5 6 7 8 9
Similar to the A38 but the two eyelets are at 90°. This is a part component of the A48.



A42
available in sizes: 5 6 7 8 9

Not generally used on their own. Part component of the A44, A46, A48 and A52.



A44
available in sizes: 5 6 7 8 9

A variable angle connector. Commonly used to connect an angled top rail to an upright post.



A46
available in sizes: 5 6 7 8 9

A Variable connection commonly used for an angled lower rail or changing gradients on top rails used with A68.



A48
available in sizes: 5 6 7 8 9

This clamp is based on the A46 but also incorporates 90° corners.



A50
available in sizes: 5 6 7 8 9

A part component of the A52. Used on its own it is ideal for a wall fixing for a chain attachment with a 'D' shackle.



AD9
available in sizes: ~~5~~ ~~6~~ 7 ~~8~~ ~~9~~

Variable angle, used in conjunction with a pair of A9-7's. DDA compliant. Please see orange DDA section.



AD725
available in sizes: ~~5~~ ~~6~~ 7 ~~8~~ ~~9~~

90° elbow to suit 42.2mm - medium weight tube. DDA compliant. Please see orange DDA section.



AD745
available in sizes: ~~5~~ ~~6~~ 7 ~~8~~ ~~9~~

Wall bracket, can be used at any angle. DDA compliant. Please see orange DDA section.



AD747
available in sizes: ~~5~~ ~~6~~ 7 ~~8~~ ~~9~~

Handrail bracket used in conjunction with A6-7 or A2-7. DDA compliant. Please see orange DDA section.



AD797
available in sizes: ~~5~~ ~~6~~ 7 ~~8~~ ~~9~~

Optional sealing ring, to obtain the best finish when using DDA range. Please see orange DDA section.



A52
available in sizes: 5 6 7 8 9

Used for an angled wall fixing plate. Not to be used as an angled base plate.



A58
available in sizes: 5 6 7 8 9

Used for the added support of a clamp that may be subject to severe loading



A60
available in sizes: 5 6 7 8 ~~9~~

Used in conjunction with the A62 for a gate hinge assembly.



A62
available in sizes: 5 6 7 8 ~~9~~

Used in conjunction with the A60 for a gate hinge assembly.



A64
available in sizes: 5 6 7 8 ~~9~~

This clamp is generally used on a vertical post where chain is connected for an access opening in a guardrail.



A76
available in sizes: 1/4" 5/16"

Hex-Key fitting for tightening retaining grub screw fitting in clamp.



A78
available in sizes: 5 6 7 8 9

Spare electro-plated hardened grub screws. Clamps are provided with their own grub screw.



AJ
available in sizes: ~~5~~ ~~6~~ ~~7~~ 8 ~~9~~

Gives 90° crossover joint. Used in guardrail installations. Horizontal rails are easily dropped into place.



G2
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~

Used for the joint between the end post and the lower rail.



G4
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~

Used for the joint between the top rail and vertical post.



A66
available in sizes: 5 6 7 8 9

This clamp can be added to an existing structure. It provides a 90° crossover connection.



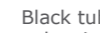
A67
available in sizes: ~~5~~ 6 7 8 ~~9~~

Used on asphalt roofs to provide a rain shield. Slides down the post over the A12 base flange.



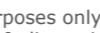
A68
available in sizes: 5 6 7 8 9

These plastic caps are used to plug the ends of the tubing. Once in position they are extremely difficult to remove.



A70
available in sizes: 5 6 7 8 9

Used to retain mesh panel to guardrail.



A72
available in sizes: 5 6 7 8 9

Used to retain mesh panel to guardrail.



G6
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~

Works on a gradient of 4-10°. Used for the termination of the top rail to the vertical post at the starting point of the incline.



G12
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~

Works on a gradient of 4-10°. Structural base plate for a vertical post.



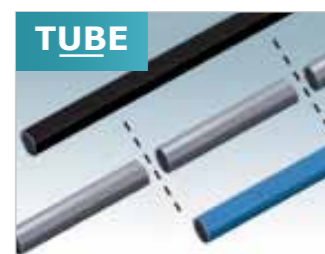
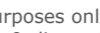
G22
available in sizes: ~~5~~ ~~6~~ 7 8 ~~9~~

Works on a gradient of 4-10°. Connects lower rail to vertical post. Vertical post must remain continuous. Rail is joined either side of clamp.



ANC
available in sizes: M10 M12

Galvanised M10/M12 100mm expansive through bolt.



TUBE
Galvanised 3.2m & 6.4m lengths as standard. For cutting or coating options please contact our sales team.





Quick Hand Rail Kits

To simplify the process of specifying railing components we have developed a modular railing system.

Available in sizes 7 (42.4mm O/D tube) & size 8 (48.3mm O/D tube) these convenient kits enable quick and simple construction of most handrail installations.

The intermediate posts are spaced apart by a pair of pre cut horizontal railing tubes:

- Size 7 provides upright post centres of 1300mm
- Size 8 provides upright post centres of 1500mm

The finished handrail height is 1100mm. All clamps and tubes are galvanised to BS 729 (ISO 1461).



RAILING END SECTION

available in sizes: ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

To be placed at the start and end of a run of handrail if it is not being fixed to the wall.



available in sizes: ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

Horizontal railing tubes pre cut to specified lengths. Size 7 1250mm, size 8 1450mm



RAILING MID SECTION

available in sizes: ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

Intermediate posts for a continuous run of handrail.



available in sizes: 1/4" 5/16"

Hex-key for fitting A78 grub screws.



RAILING CORNER SECTION

available in sizes: ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

To provide a 90° corner for handrail.



available in sizes: M10 M12

Galvanised M10/M12 100mm expansive through bolt.

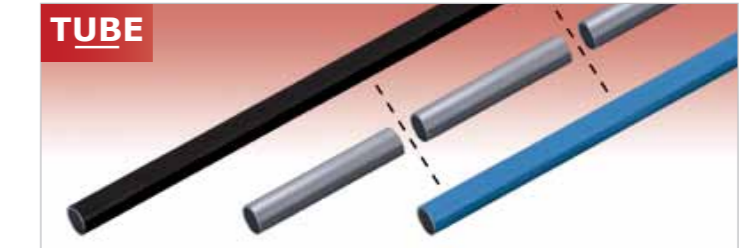


RAILING WALL TERMINATION

available in sizes: ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

Use to fix the handrail to a wall.

KIT CONTAINS:
A10 x2



TUBE / TUBE CUTTING / TUBE COATING

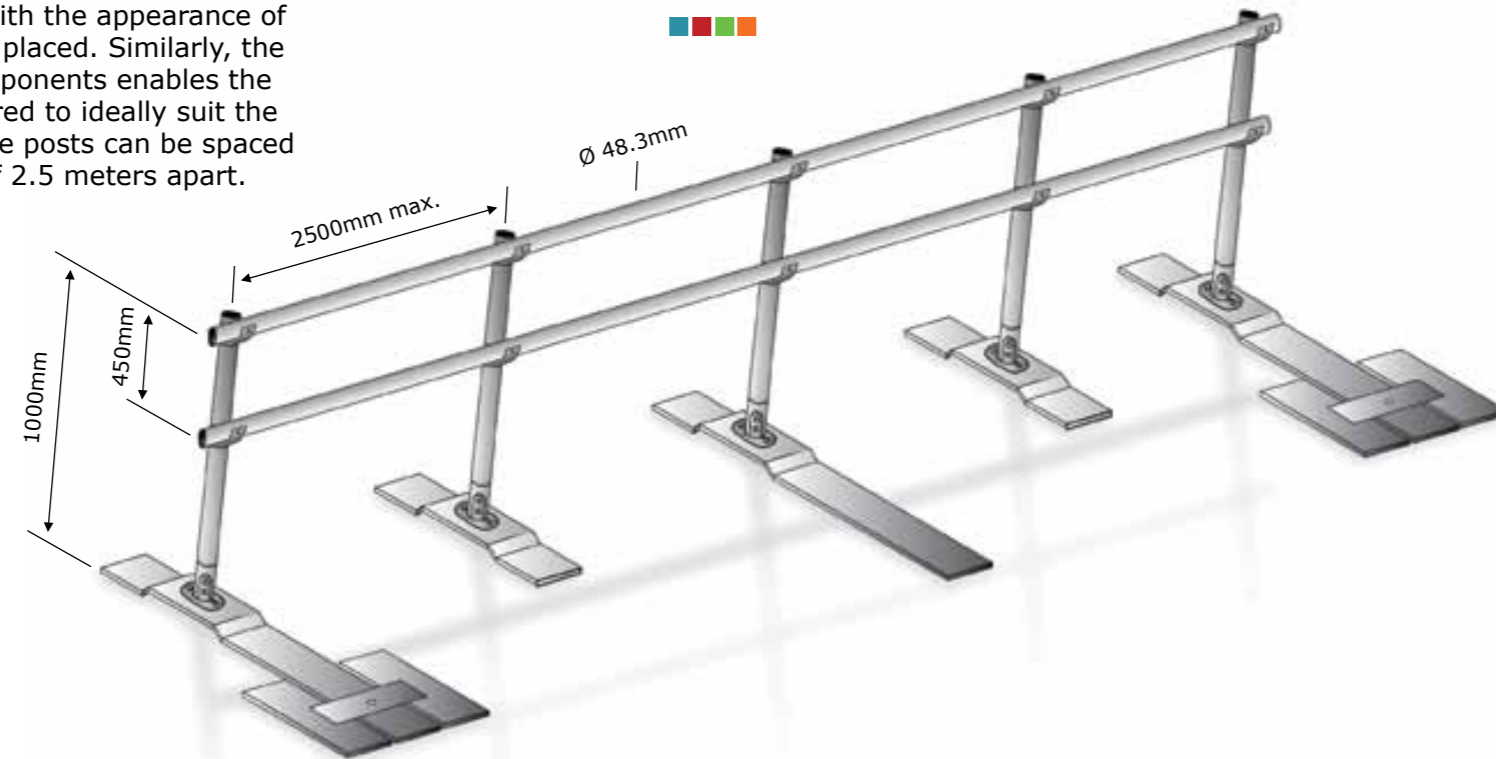
Galvanised 3.2m & 6.4m lengths as standard. For cutting or coating options please contact our sales team.

Alvin Freestand

Alvin Freestand counterbalanced handrail system provides a roof edge protection solution for worker safety at height. It is quick and easy to install and can be used on virtually any flat roof surface. Counterbalanced arms and uprights have 3mm fluted rubber pads that hold the system firmly in place without any damage to the integrity of the roof surface itself.

Aesthetics and ease of installation are crucial factors in the systems design. The use of quality galvanised steel tubing gives the assurance of strength while also establishing a visual subtlety that won't conflict with the appearance of the building on to which it is placed. Similarly, the wide range of available components enables the system layout to be configured to ideally suit the collective protection need. The posts can be spaced at a maximum distance of 2.5 meters apart.

- Low profile counterbalanced arms provide a minimum trip hazard.
- Start and end each run with a End weight kit. A wall termination kit can be used if you can affix to a brick wall.
- You can alternate between long and short arms along each run. You CAN NOT place two short arms next to each other. The distance between uprights can be a maximum of 2.5m.



END WEIGHT KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~

To be used at the start and end of the run of Freestand if it is not attached to the wall.

KIT CONTAINS:

| A12 x1 | A68 x1 | AJ8 x2 | Long Arm x1 | Upright Post x1 | End Weight x1 |



STRAIGHT JOINER KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~



LONG ARM KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~

Intermediate support for continuous run of Freestand. Can be alternated with the Short Arm Kit.

KIT CONTAINS:

| A12 x1 | A68 x1 | AJ8 x2 | Long Arm x1 | Upright Post x1 |



SHORT ARM KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~

Intermediate support for continuous run of Freestand. MUST be alternated with the Long Arm Kit.

KIT CONTAINS:

| A12 x1 | A68 x1 | AJ8 x2 | Short Arm x1 | Upright Post x1 |



WALL TERMINATION KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~

Use to fix the Freestand to a wall.

KIT CONTAINS:

A10 x2



CORNER KIT

available in sizes: ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ **8** ~~9~~

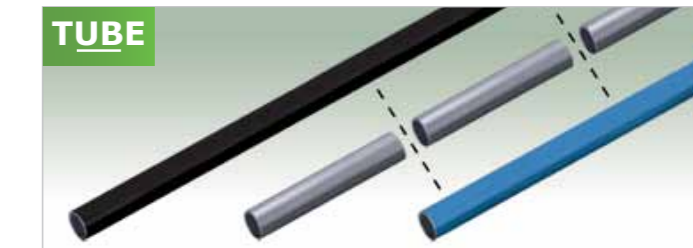
Provides a 90 degree corner for a continuous run of Freestand.

KIT CONTAINS:

A06 x2



A76
available in sizes: **1/4"** **5/16"**
Hex-key for fitting A78 grub screws.



TUBE / TUBE CUTTING / TUBE COATING
Galvanised 3.2m & 6.4m lengths as standard. For cutting or coating options please contact our sales team.

Alvin DDA Range

Alvin Key Clamps manufacture this specialist range to assist in complying with Disability Discrimination Act (DDA) and the Building Regulations Part M:2004. Clamps have been designed to be easily fitted, without specialist tools. To meet Part M, tubes must be powder coated to meet "warm to touch" requirements; alternatively, tubes may be painted.

The wide range of available components enables the system layout to be configured to ideally suit any building.

KEY FEATURES

- Smooth continuous handrail to satisfy Part M of the Building Regulations.
 - Galvanised finish provides protection against the elements, in accordance with BS EN 10255.
- Rails and supports are made of galvanised steel tube to BS EN ISO 1461.
 - Ease of assembly - no complex equipment required.
- System can incorporate uninterrupted corners and changes of gradient.
 - End sections can be fixed directly to a wall where appropriate or attach end upright section.
 - Installation should be undertaken by competent personnel only.
 - Alternatively, tubes may be painted with a compliant paint.



UPRIGHT KIT

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Upright for start, end and intermediate post for handrail run.

KIT CONTAINS:
| A06 x1 | A02 x1 |
AD747 x2 | AD797 x4 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Wall bracket, can be used at any angle.



GRADIENT CHANGE KIT

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Use for changes of gradients, from flat to ramped surface.

KIT CONTAINS:
| A09 x4 | AD09 x2 |
AD797 x4 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

A structural base plate for a vertical post that allows for the fixing of toe/kick boards.



HANDRAIL JOINER KIT

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

To provide an internal rigid connection for two tubes of the same size.

KIT CONTAINS:
| A09 x1 | AD797 x4 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Base for vertical posts for side mounting. Posts stand off from structure. Tube cannot pass through this clamp.



HANDRAIL END LOOP KIT

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Provides a neat return of the top rail to the mid rail.

KIT CONTAINS:
| AD725 x2 | AD797 x4 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Structural base for side mounted vertical post. Clamp is virtually flush. Tube does not pass through clamp.



HANDRAIL WALL TERMINATION

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

To fix the handrail to a wall.

KIT CONTAINS:
| A10 x2 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Provides a structural base plate as the A14, should not be used for heavy duty applications.



HANDRAIL 90° CORNER KIT

available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Provides a 90° corner for a continuous run of handrail.

KIT CONTAINS:
| AD725 x2 | AD797 x4 |



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Ground socket cast into concrete. Posts inserted and retained with a locking set screw. Posts easily removable.



available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

A structural base plate for a vertical post.



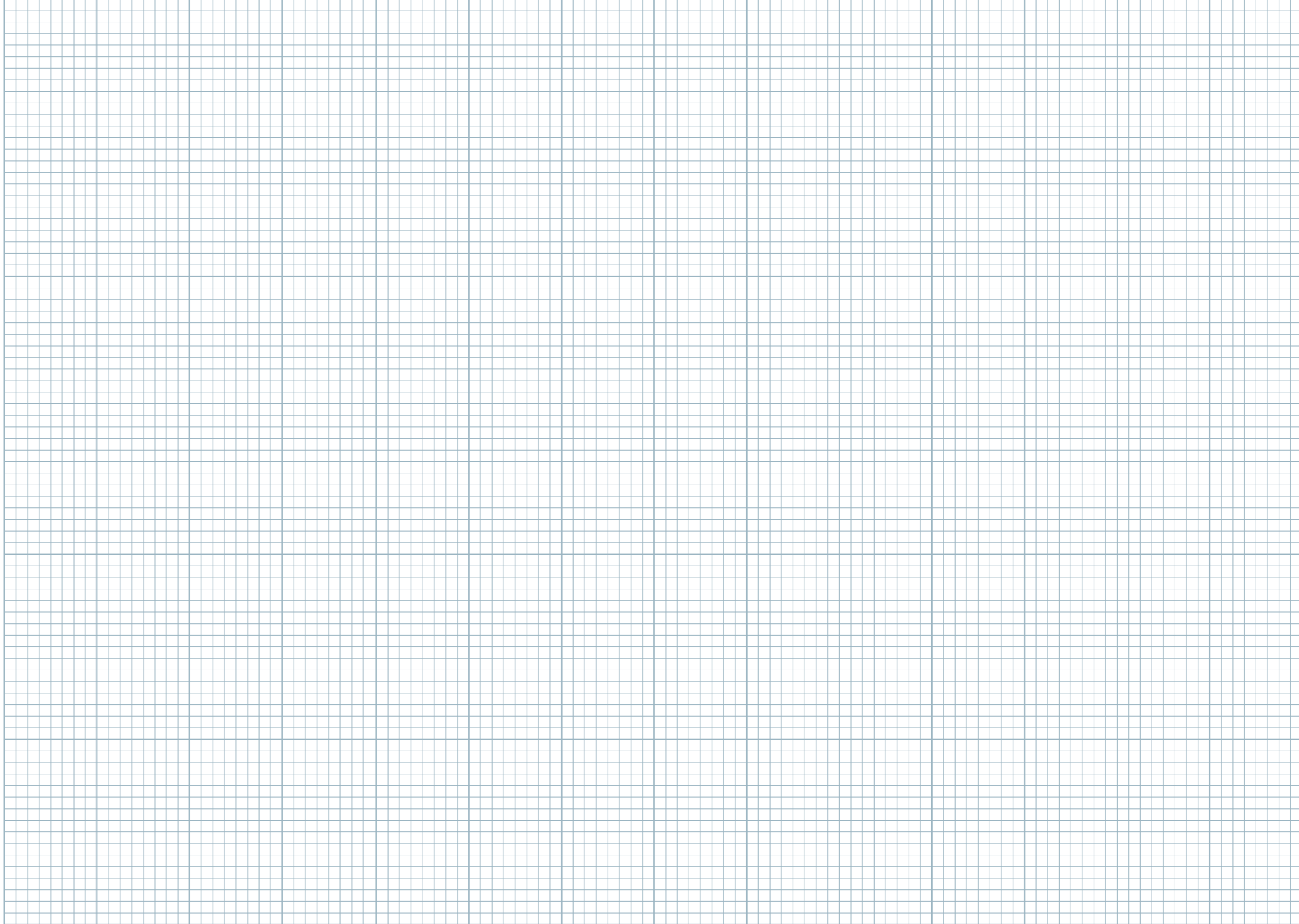
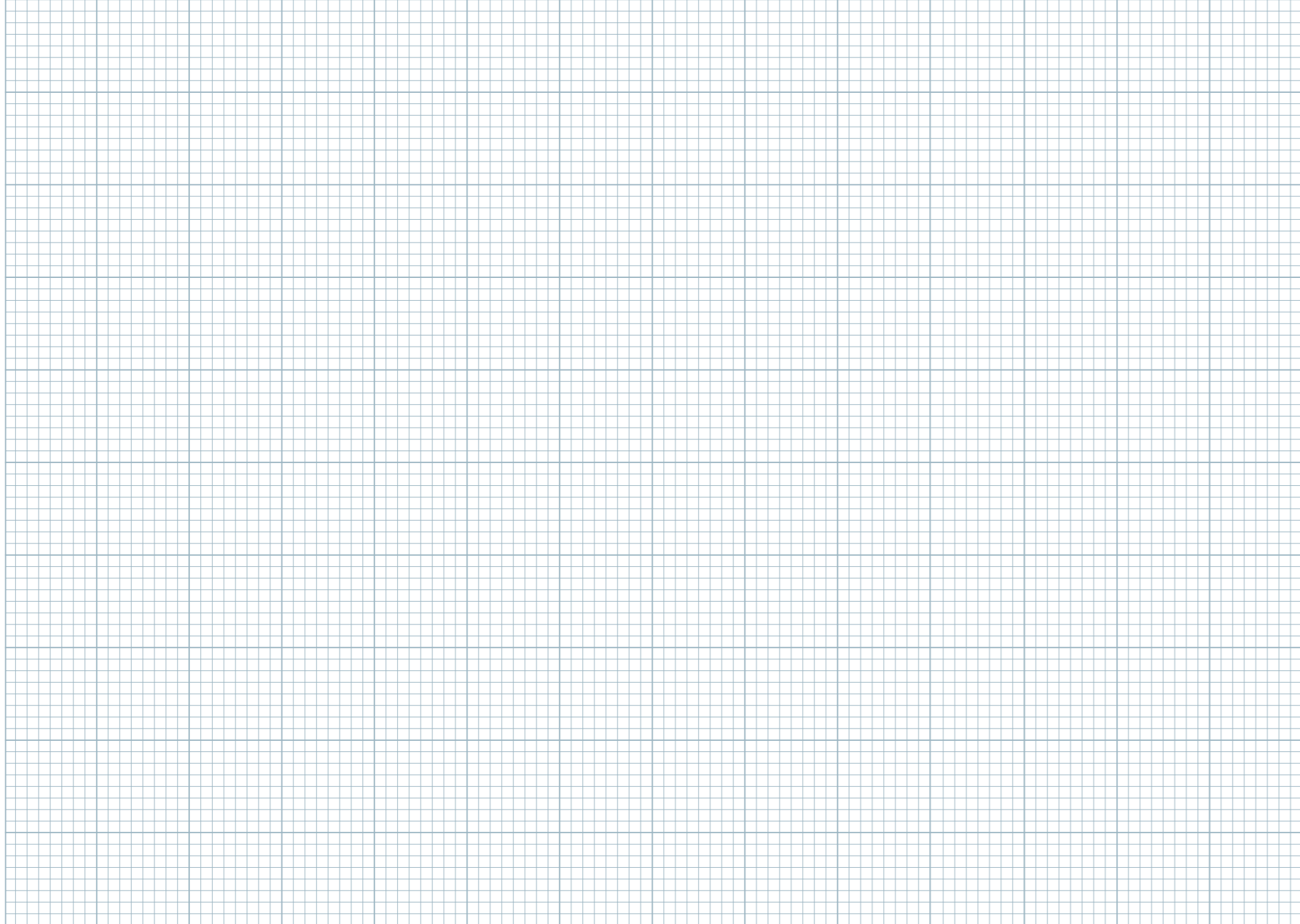
available in sizes: ~~5~~ ~~6~~ **7** ~~8~~ ~~9~~

Structural base plate for a vertical post.



Galvanised 3.2m & 6.4m lengths as standard.

For cutting or coating options please contact our sales team.



A complex industrial metal assembly, possibly a valve or actuator, with a black hose and a control knob. The assembly is made of various metal pipes and fittings, some of which are painted blue. The background is a solid blue color.

**For more info or
to place an order,
visit our website:**

AlvinKeyClamp.co.uk

**or give Alvin a ring on:
020 8254 2626**