**BEXHILL STEELWORKS** 

# Key clamp fittings at great prices!

www.keyclamphandrails.co.uk

















01424 844702 or 07971 882241



sales@keyclamphand rails.co.uk













### GALVANISED TUBE 1602:

1.044m to 6.5m lengths

(For A/B/C/D/E Fittings)

TUBE SIZES - OUTSIDE DIAMETER

A Tube: Ø26.9mm

B Tube: Ø33.7mm

C Tube: Ø42.4mm

D Tube: Ø48.3mm

E Tube: Ø60.3mm

D & E Tube also in yellow

RAL1012



### Key Clamp Middle 101: SIDE TEE

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the upright to the top rail or the end or mid rail to the upright. Do not join tubes inside this short tee - use a 'TOP 104 LONG TEE' fitting. Normally used in conjunction with the 'MIDDLE 119 INTERSECTION' when building double rail handrail or quardrail.



### **Key Clamp Top 104: LONG TEE**

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the upright to the top rail. Tubes may be joined inside this fitting. Normally used in conjunction with the 'MIDDLE 119 INTERSECTION' fitting when building double rail handrail or guardrail.



### Key Clamp Middle 116: CORNER INTERSECTION

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the mid rails to the upright at a 90° corner. Normally used in conjunction with the 'TOP 128 CORNER' when building double rail handrail or guardrail.









### Key Clamp Middle 119: INTERSECTION

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the mid rails to the upright. The upright must remain continuous with the cross rails being cut. Normally used in conjunction with the 'TOP 104 LONG TEE" fitting when building double rail handrail or guardrail.



#### 123: VARIABLE ELBOW 40-70°

(For C/D Tube)

Used when a junction between a sloping tube and an end post is required i.e. guardrail on staircases between 40-70°.



### Key Clamp Elbow 124: VARIABLE ELBOW

(For B/C/D Tube)

For connecting two tubes at angles of 15-60° on guardrails or handrails. Using this fitting means it is not necessary to bend tube.



### Key Clamp Elbow 125: 90° ELBOW

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the top rail to the upright. Normally used in conjunction with the 'MIDDLE 101 SIDE TEE' fitting when building an end post on a double rail handrail or guardrail. This 2 way elbow can also be used to create a 90° bend.









### **Key Clamp Top 128: CORNER**

(For A/B/C/D/E Tube)

For use on straight and level guardrail to connect the two top rails to the upright at a 90° corner post. Normally used in conjunction with the 'MIDDLE 116 CORNER INTERSECTION' fitting when building double rail handrail or guardrail.



### 129: ADJUSTABLE SHORT TEE

(For B/C/D Tube)

Adjustable fitting between 30-60°. Typically used as a tee connection on steeper stairs and slopes with a vertical upright. May also be used as a structure bracing.



### Key Clamp Middle 130: ADJUSTABLE CROSS 30-45°

(For B/C/D Tube)

For use on steeper slopes or stairs as an intermediate cross connector with an angle of 30-45° with the upright remaining vertical. Normally used in conjunction with the '129: ADJUSTABLE SHORT TEE 30-60°' when building double rail handrail or guardrail. This adjustable cross fitting is not recommended for use as the top fitting on handrail or guardrail.



### **Key Clamp Base 131: WALL BASE**

(For A/B/C/D/E Tube)

For terminating cross rails to walls etc. It may also be used as a base plate for non-load bearing structures such as chairs, benches, tables etc. DO NOT USE AS A BASE PLATE FOR HANDRAIL/GUARDRAIL OR IN LOAD BEARING APPLICATIONS.







# **Key Clamp Base 132: RAILING BASE FLANGE**

(For A/B/C/D/E Tube)

A structural base plate for all applications using vertical posts. For guardrail the fitting should be positioned with the base holes at 90° to the line of the rail to give maximum strength.



### **Key Clamp Base 134: GROUND BASE**

(For B/C/D Tube)

For use as a base plate for a removable upright that can be removed without leaving any obstructions. The tube is held in place by the setscrew. The casting hole should be a minimum 300x300x300mm.



### 135: CLAMP ON TEE

(For A/B/C/D/E Tube)

For adding to an existing inline structure without having to dismantle the original structure.

MAXIMUM BOLT TORQUE 15N/M.

Uses a M10 stainless steel bolt.



### **Key Clamp Hinge 138: EYE PART**

(For B/C/D Tube)

Female section of a two-part gate hinge, used in conjunction with the 'HINGE 140 HOOK PART' fitting.







### **Key Clamp Hinge 140: HOOK PART**

(For B/C/D Tube)

Male section of a two-part gate hinge, used in conjunction with the 'HINGE 138 EYE PART' fitting.



### 141: RAILING SIDE SUPPORT H

(For B/C/D Tube)

The Railing Horizontal Side Support is designed to provide a base for railings and other structures that need a side mounted flush fixing plate. When used as a secondary inline fixing the base needs to be reamed out to allow the tube to pass through.



### 142: TOEBOARD ADAPTOR

(For D Tube)

Ideal for guardrailing and balustrading applications where the addition of a toeboard or kick plate is required. Slotted holes in the back plate allow for sideways movements to ease installation.



#### Key Clamp Base 143: WALL HANDRAIL BASE

(For B/C/D Tube)

For wall mounted handrailing, this fitting can also be used to hold in place kick plate on guardrail, or even display boards at exhibitions. DO NOT USE AS A SOLITARY BASE PLATE FOR HANDRAIL/GUARDRAIL OR SIMILAR LOAD BEARING APPLICATIONS.









### 144: RAILING SIDE SUPPORT V

(For B/C/D Tube)

For use as an offset structural side palm fixing for either straight or sloping guardrail. The tube is unable to pass through the standard fitting - should this be required then the base must be reamed out. Use in conjunction with a 'BASE 143 WALL HANDRAIL BASE' when a secondary inline base fixing is required.



### **Key Clamp Base 145: SIDE BASE**

(For B/C/D Tube)

Designed to provide a base for railings and other structures that need a side mounted flush fixing plate. When used as a secondary inline fixing the base needs to be reamed out to allow the tube to pass through.



### Key Clamp Base 146: TRIANGULAR SIDE BASE

(For B/C/D Tube)

For use as a structural side palm fixing for the upright on either straight or sloping handrail or guardrail keeping the upright as close as possible to the slope or stairs. When used as a secondary inline fixing the base needs to be machined to allow the tube to pass through and the bottom fixing hole then becomes redundant. BASE THICKNESS 7MM.



#### 147: INTERNAL SWIVEL TEE

(For B/C/D Tube)

For offset variable angle sloping handrail or guardrail in conjunction with a 'MIDDLE 101 SIDE TEE' or 'ELBOW 125 90° ELBOW' fitting.







### 148: SHORT SWIVEL TEE

(For A/B/C/D Tube)

Product image displays 2 units - Items sold as single, to create the effect in this illustration please order a pair.



### Key Clamp Connector 149: EXTERNAL CONNECTOR

(For A/B/C/D/E Tube)

Inline external connector for joining two tubes together in a run. For an inline joint that is the same diameter as the tube, the 'CONNECTOR 150 INTERNAL CONNECTOR' fitting should be used. Not recommended as a structural joint.



### Key Clamp Connector 150: INTERNAL CONNECTOR

(For B/C/D Tube)

Inline internal connector for joining two tubes together. Only for use with medium gauge 3.2mm wall thick tube. This joint should never be used as a load bearing joint and must be used within 100mm of an upright.



#### 151: ANGLE BASE FLANGE 11-30°

(For C/D Tube)

Similar to the '152: BASE FLANGE FOR SLOPE UP TO 11°', this fitting is used to set the upright at an angle of 11-30°. This fitting should only be subjected to light loads which cannot be positioned at 90° to the applied load. For greater loads or other tube sizes a 'BASE 132 TALL BASE' should be used with the upright bent to the required angle.







### 152: BASE FLANGE -SLOPE <11°

(For D Tube)

For use as a structural base for sloping handrail or guardrail of 0-11° enabling the upright to remain vertical. The tolerance on standard fittings is 3-5°.



### 153: SHORT TEE -SLOPE <11°

(For D Tube)

For use on shallow sloping handrail or guardrail of 0-11° to connect the upright to the top rail or the end or mid rail to the upright. Normally used in conjunction with the '154: ELBOW FOR SLOPE UP TO 11°. Tubes may not be joined inside this fitting to join tubes use the '155: LONG TEE FOR SLOPE UP TO 11°'. The tolerance on standard fittings is 3-5°.



### 154: ELBOW - SLOPE <11°

(For D Tube)

For use on shallow sloping handrail or guardrail of 0-11° at the start or end of a run to connect the upright to the top rail. This elbow may be used at either the bottom or top of an incline. Normally used in conjunction with the '153: SHORT TEE FOR SLOPE UP TO 11°' fitting. The tolerance on standard fittings is 3-5°.



### 155: LONG TEE -SLOPE <11°

(For D Tube)

For use on shallow sloping handrail or guardrail of 0-11° to connect the upright to the top rail. Tubes may be joined inside this fitting. Normally used in conjunction with the 156: TWO SOCKET CROSS FOR SLOPE UP TO 11°′ fitting. The tolerance on standard fittings is 3-5°.







### 156: TWO SOCKET CROSS - SLOPE <11°

(For D Tube)

For use on shallow sloping handrail or guardrail of 0-11° to connect the mid or lower rails to the upright. The upright must remain continuous with the cross rails cut. Normally used in conjunction with the '155: LONG TEE FOR SLOPE UP TO 11°' fitting. The tolerance on standard fittings is 3-5°.



### Key Clamp Crossover 158: FOUR WAY CROSS

(For A/B/C/D/E Tube)

For joining tubes together in the centre of a structure. This four way cross fitting allows the upright to pass through the centre with the cross rails joining at 90° to the upright.



### Key Clamp Crossover 160: CLAMP ON CROSSOVER

(For A/B/C/D Tube)

For adding to an existing offset structure without the need for any dismantling.



### 161: 90° ADD ON CROSSOVER

(For A/B/C/D/E Tube)

Allows additions to existing structures without the need for any dismantling. This 90° crossover is designed to give a 90° offset crossover joint. The tubes may not be joined within this fitting.







### 165: COMBINATION SOCKET TEE

For A/B/C/D/E Tube)

Typically used for the construction of pallet racking or shelved racking systems. Tubes may not be joined inside this fitting.



#### 167: DOUBLE SWIVEL COMBINATION

(For A/B/C/D Tube)

Typically used on sloping handrail/ guardrail. This fitting combines 1 x 167M & 2 x 173F. The swivels can travel approximately 85° from the horizontal in both directions. NOT DESIGNED TO WITHSTAND LATERAL LOADS. AN ENTIRE STRUCTURE SHOULD NOT BE BUILT USING ONLY SWIVEL FITTINGS, THIS WOULD BE UNSTABLE.



### 167M: DOUBLE MALE SECTION

(For A/B/C/D/E Tube)

Double male fitting with the connection lugs at 180° to each other. This fitting can also be used to retain display panels etc. NOT DESIGNED TO WITHSTAND LATERAL LOADS.



#### 168M: 90° CORNER SWIVEL MALE

(For A/B/C/D/E Tube)

Double male fitting with the connection lugs at 90° to each other. This fitting can also be used to retain display panels etc. NOT DESIGNED TO WITHSTAND LATERAL LOADS.







## Key Clamp Base 169: WALL SWIVEL SIDE BASE

(For A/B/C/D/E Tube)

Non-structural male locating swivel. This fitting combines 1 x 169M & 1 x 173F. The swivel can travel approximately 85° from the horizontal in both directions. NOT TO BE USED AS A BASE PLATE FOR GUARDRAIL AND NOT DESIGNED TO WITHSTAND LATERAL LOADS.



### Key Clamp Base 169M: SWIVEL BASE SECTION

(For A/B/C/D/E Tube)

Non-structural male locating base, typically used to create a swivel base. NOT DESIGNED TO WITHSTAND LATERAL LOADS.



### Key Clamp Connector 170: MESH PANEL CLIP -SINGLE

(For A/B/C/D Tube)

For retaining weld mesh panels into handrail/guardrail. To correctly retain the weld mesh panel in place using this clip, the mesh should be framed with an 8mm bar. Supplied with stainless steel hexagonal head screw and nut.



### Key Clamp Connector 171: MESH PANEL CLIP -DOUBLE

(For B/C/D Tube)

For retaining weld mesh panels into handrail/guardrail. To correctly retain the weld mesh panel in place using this clip, the mesh should be framed with a 8mm bar. Supplied with stainless steel hexagonal head screw and nut.







### **Key Clamp Top 173: SWIVEL TEE**

(For A/B/C/D/E Tube)

Used mainly for sloping handrails, this swivel pivots at least 80° from the fitting in either direction.



### 173F: FEMALE SWIVEL SECTION

(For C/D Tube)

Used in conjunction with the male fittings 167M, 168M, 169M & 173M. NOT DESIGNED TO WITHSTAND LATERAL LOADS.



### 174: SWIVEL TEE

(For D Tube)

A versatile swivel fitting, often used for braces and where staircase middle rails join level sections. Tubes should not be joined within this fitting.



#### 175: SWIVEL ELBOW

(For D Tube)

A versatile swivel fitting, often used where top rails join level sections, or for braces.









### Key Clamp Middle 176: SIDE OUTLET TEE

(For A/B/C/D/E Tube)

For constructing market stall or play frame type structures.



### 177: THREE SOCKET TEE 11-30°

(For C/D Tube)

For use on safety railing with slopes of 11-30°, fixing the top rail to a vertical intermediate upright.



### 178: TWO SOCKET CROSS 11-30°

(For C/D Tube)

Used on safety railing with slopes of 11-30°, fixing the mid rail to a vertical intermediate upright.



### Key Clamp Support 179: LOCKING COLLAR

(For B/C/D Tube)

For providing additional strength to fittings on high load structures.







### **Key Clamp Hook 182:** CHAIN HOOK

(For B/C/D Tube)

This chain hook is not recommended as a permanent chain location - for permanent chain locations one end should be retained in place using a '173M: SINGLE SWIVEL COMBINATION' and fixed with a nut and bolt.



### 184: 45° TEE

(For B/C/D Tube)

A bracing and strut component to strengthen structures.



### 185: EAVES FITTING

(For D Tube)

Used on the eaves end of a roof system in conjunction with the '191: RIDGE FITTING'.



### 191: RIDGE FITTING

(For D Tube)

Used on the ridge of a roof system in conjunction with the '185: FAVES FITTING'.







# Key Clamp Base 192: WEATHER COVER SHIELD

(For B/C/D Tube)

For weather protection around a 'BASE 132: RAILING BASE FLANGE' on a flat roof guardrail system. This fitting needs to be sealed with a suitable sealant.



### 199: ADJUSTABLE FIXING BRACKET

(For C/D Tube)

For fixing panels, display boards or flooring to structures. Supplied with a pre-drilled hole.



### 750: ASSIST EXPANDING FITTING

(For D Tube)



### A101: ADD ON SHORT TEE

(For C/D Tube)

This fitting allows existing structures to be extended without any need for dismantling. The tube must not be joined within the add on short tee.







### A161: 90° ADD ON CROSSOVER

(For C/D Tube)

90° bolt-on joint ideal for making additions or alterations to an existing structure where a 'CROSSOVER 7' cannot be used. Tubes should not be joined within the fitting.



### Screws 231: KEY CLAMP GRUB SCREWS

(For A/B/C/D/E Tube)

Proprietary coated, case hardened setscrews. When tightened to a torque of 39Nm they give a slip load of 900kg to a safety factor of 2.



### Tool 16232l: HEXAGONAL ALLEN KEY

(For A/B/C/D/E Tube)

Hexagonal Allen Key - the only tool required to tighten up a setscrew.



### **Key Clamp Plug 133: PLASTIC END CAP**

A plastic end cap to seal the open end of tubes. This fitting is a frictional fit only. For a permanent fix, a suitable adhesive should be used.







16236: METAL STOP END

(For A/B/C/D Tube)

The Metal Stop End to seal the open end of tubes. Please note this plug can only be used with 3.2mm wall thick tubes. For plastic alternative please use a 133.



16305: GRUB SCREW PROTECTORS

(For A/B/C/D/E Tube)



### 16402: DOUBLE GLASS CLAMP

(For C/D Tube)

Glass balustrades provide a contemporary look to commercial and residential properties. Our Glass Clamp System is a simple and effective way of securing glass to a post. Glass Clamps supplied with 2mm rubber gaskets. For 10mm glass.



### **1699508: GAP WASHER**

(For C Tube)







16A122: ACUTE ANGLE ELBOW 11-30°

(For C/D Tube)



16A124: VARIABLE ELBOW 11-30°

(For C/D Tube)



16229: SINGLE SOCKET TEE 11-30°

(For C/D Tube)



16729: ASSIST EXPANDING EXTERNAL CORNER BRACKET

(For C/Tube)









1699580: WALL MOUNTED HANDRAIL JOINER

(For C Tube)



## Connector 16BC538: INLINE SWIVEL FITTING

(For B/C/D Tube)

Variable angle in-line connection with an adjustable range of up to 200°.



### 16A116LH: LEFT HAND LEVEL TO SLOPING DOWN TEE SIDE OUTLET 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping down the stairs. Adjustable between 30-45°.



### 16A116RH: RIGHT HAND LEVEL TO SLOPING DOWN TEE SIDE OUTLET 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping down the stairs. Adjustable between 30-45°.









### 16A128LH: LEFT HAND LEVEL TO SLOPING DOWN ELBOW SIDE OUTLET 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping down the stairs. Adjustable between 30-45°.



### 16A128RH: RIGHT HAND LEVEL TO SLOPING DOWN ELBOW SIDE OUTLET 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping down the stairs. Adjustable between 30-45°.



### 16191: RIDGE FITTING

(For D Tube)

Typically used for the eaves end of a roof system in conjunction with the 185.



### 16204: LEVEL TO SLOPING DOWN TEE 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping down the stairs. Adjustable between 30-45°.









### 16A204: LEVEL TO SLOPING UP TEE 30-45°

(For C/D Tube)

Used on staircases where the angle changes from level to sloping up the stairs. Adjustable between 30-45°.



### 16219: LEVEL TO SLOPING DOWN/UP CROSS 30-45°

(For C/D Tube)

Used to form a cross on handrails where the mid rail changes from either level to sloping down or level to sloping up the stairs. Adjustable between 30-45°.



16KG135D: CRADLE FITTING

(For D Tube)



169972D: STAIR TREAD BRACKET

(For D Tube)







### 16277: THREE SOCKET TEE 30-45°

(For C/D Tube)

Typically used on guardrail for connection the to rail to the upright. Normally use in conjunction with the 126 fitting.



### 16A151: ANGLED BASE FOOT 30-45°

(For C/D Tube)

Similar to a type 152, it is used to set the upright at an angle between 30-45°. This fitting should only be subjected to light loads which cannot be positioned at 90° to the applied load. For greater loads or other tube sizes a type 132 flange should be used with the upright bent to the required angle Ø indicates the diameter of the fixing hole.



16FPH1B: FLAG POLE HOLDER 45°



16FPH2B: FLAG POLE HOLDER 45° 90°







### HBend25113: RETURN

(B Tube)

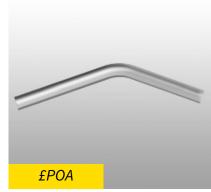
Ø33.7mm tube. 300mm legs. Self colour.



### **HBend25124: STAIR RETURN**

(B Tube)

Ø33.7mm tube. 400mm legs. Self colour.



### HBend25135: HANDRAIL RAMP

(B Tube)

Ø33.7mm tube. 500mm legs. Self colour.



### HBend25143: HANDRAIL 90°

(B Tube)

Ø33.7mm tube. 300mm legs. Self colour.









HBend25213: HANDRAIL STANDARD RETURN

Ø33.7mm tube. 25NB. 300mm legs. Galvanised.



HBend25214: HANDRAIL STANDARD RETURN

Ø33.7mm tube. 400mm legs. Galvanised.



HBend25224: HANDRAIL STANDARD STAIR RETURN

Ø33.7mm tube. 400mm legs. Galvanised.



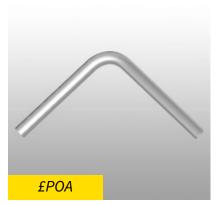
HBend25235: HANDRAIL STANDARD RAMP

Ø33.7mm tube. 500mm legs. Galvanised.









### HBend25243: HANDRAIL STANDARD 90°

(B Tube)

Ø33.7mm tube. 300mm legs. Galvanised.



HBend32213: HANDRAIL STANDARD RETURN

(C Tube)

Ø42.4mm tube. 32NB. 300mm legs. Galvanised.



HBend32224:
HANDRAIL STANDARD
STAIR RETURN

(C Tube)

Ø42.4mm tube. 400mm legs. Galvanised.



HBend32243: HANDRAIL STANDARD 90°

(C Tube)

Ø42.4mm tube. 300mm legs. Galvanised.









### FSG-LH-33: SAFETY GATE & 2 POSTS

(B Tube)

Fabricated Safety Gate & 2 Posts - L/H.

 $\emptyset$ 33.7mm Tube - Self Closing.



### FSG-RH-33: SAFETY GATE & 2 POSTS

(B Tube)

Fabricated Safety Gate & 2 Posts - R/H.

Ø33.7mm Tube - Self Closing.



### FSG-LH-42: SAFETY GATE & 2 POSTS

(C Tube)

Fabricated Safety Gate & 2 Posts - L/H.

Ø42.4mm Tube - Self Closing.



### FSG-RH-42: SAFETY GATE & 2 POSTS

(C Tube)

Fabricated Safety Gate & 2 Posts - R/H.

Ø42.4mm Tube - Self Closing.







### FSG-LH-48: SAFETY GATE & 2 POSTS

(D Tube)

Fabricated Safety Gate & 2 Posts - L/H.

Ø48mm Tube - Self Closing.



### FSG-RH-48: SAFETY GATE & 2 POSTS

(D Tube)

Fabricated Safety Gate & 2 Posts - R/H.

Ø48mm Tube - Self Closing.



#### HKFSG-SS: SAFETY GATE HINGE KIT

(For Round S/S Tube Section)

Hinge kit for safety gate - STAINLESS.

For welding to round S/S tube sections.

- Adjustable closing speed
- Plate with slotted pin
- Plate with pin hole
- Plain plate
- Spring and lock nut
- M8 x 20 countersunk screws
- Washers.



### HKFSG-T: SAFETY GATE HINGE KIT

(For Tubular Section)

Hinge kit for safety gate - STAINLESS.

For welding to tubular sections.

- Adjustable closing speed
- Plate with slotted pin
- Plate with pin hole
- Plain plate
- Spring and lock nut
- M8 x 20 countersunk screws
- Washers.









#### HKFSG-SQ: SAFETY GATE HINGE KIT

(For Square Section)

Hinge kit for safety gate - STAINLESS.

For welding to square sections.

- Adjustable closing speed
- Plate with slotted pin
- Plate with pin hole
- Plain plate
- Spring and lock nut
- M8 x 20 countersunk screws
- Washers.



#### 25SGH: SAFETY GATE HINGE KIT

(For Tubular Section)

Hinge kit for safety gate.

For welding to tubular sections.

- Adjustable closing speed
- Plate with slotted pin
- Plate with pin hole
- Plain plate
- Spring and lock nut
- M8 x 20 countersunk screws
- Washers.



#### 25SGHS: SAFETY GATE HINGE KIT

(For Square Section)

Hinge kit for safety gate.

For welding to square sections.

- Adjustable closing speed
- Plate with slotted pin
- Plate with pin hole
- Plain plate
- Spring and lock nut
- M8 x 20 countersunk screws
- Washers.



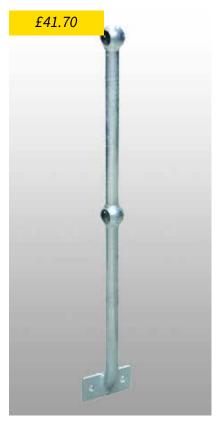
RUBBER GATE BUMP STOP

Dia 20mm x L 25mm.











(For B/C/D Tube)

10mm flat drilled  $\emptyset$ 18 holes for M16 bolts.



3C-550-550: HANDRAIL STANDARD

(For B/C/D Tube)

12mm flat drilled Ø18 holes for M16 bolts.



4D-550-550: HANDRAIL STANDARD

(For B/C/D Tube)

10mm flat drilled  $\emptyset$ 18 holes for M16 bolts.



FHB2B: ADJUSTABLE RAIL

(For B/C Tube)

The pivot point offers an adjustable angle to handrail standards, allowing for instant installation of handrail on slopes, so no more waiting for the fabrication of costly raked standards. Load tested. No fabrication of raked specials required. Flexible on site adjustment.















### FHB3C: ADJUSTABLE RAIL

(For B/C Tube)

The pivot point offers an adjustable angle to handrail standards, allowing for instant installation of handrail on slopes, so no more waiting for the fabrication of costly raked standards. Load tested. No fabrication of raked specials required. Flexible on site adjustment.

### FHB4D: ADJUSTABLE RAIL

(For B/C Tube)

The pivot point offers an adjustable angle to handrail standards, allowing for instant installation of handrail on slopes, so no more waiting for the fabrication of costly raked standards. Load tested. No fabrication of raked specials required. Flexible on site adjustment.

### 1603001C: END POST -ASSEMBLED

(For C Tube)

1100mm Ø42.4mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'C' tube (Ø42.4mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.

### 1603002C: MIDDLE POST -ASSEMBLED

(For C Tube)

1100mm Ø42.4mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'C' tube (Ø42.4mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.













### 1603003C: CORNER POST -ASSEMBLED

(For C Tube)

1100mm Ø42.4mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'C' tube (Ø42.4mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.

### 1603001D: END POST -ASSEMBLED

(For D Tube)

1100mm Ø48.3mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'D' tube (Ø48.3mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.

### 1603002D: MIDDLE POST -ASSEMBLED

(For D Tube)

1100mm Ø48.3mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'D' tube (Ø48.3mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.

### 1603003D: CORNER POST -ASSEMBLED

(For D Tube)

1100mm Ø48.3mm. This preassembled tube clamp post helps reduce installation time. Supplied in a standard height of 1100mm and constructed using 'D' tube (Ø48.3mm). Used in conjunction with tube cross rails of 1450mm, it conforms to Building Regulations.







### GALVANISED TUBE 1602:

1.044m to 6.5m lengths

(For A/B/C/D/E Fittings)

TUBE SIZES - OUTSIDE DIAMETER

A Tube: Ø26.9mm

B Tube: Ø33.7mm

C Tube: Ø42.4mm

D Tube: Ø48.3mm

E Tube: Ø60.3mm

D & E Tube also in yellow

RAL1012



### DDA01: UPRIGHT CONNECTOR

(Disabled Access Range)

To attach the 'DDA04 INTERMEDIATE BRACKET' or the 'DDA02 HANDRAIL CONNECTOR' to the Ø48.3mm (D tube) upright.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



### DDA02: HANDRAIL CURVE

(Disabled Access Range)

To attach the end of the Ø42.4mm (C tube) handrail tube at 90° to the Ø48.3mm (D tube) upright. Used in conjunction with DDA01 UPRIGHT CONNECTOR and DDA07 INTERNAL CONNECTOR.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



### DDA03: WALL BRACKET

(For A/B/C/D/E Tube)

(Disabled Access Range)

To support Ø42.4mm (C tube) handrail tube to a wall. The tube is fixed to this WALL BRACKET using either 2 x self tapping screws or 2 x pop rivets.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.







### DDA04: INTERMEDIATE BRACKET

(Disabled Access Range)

To support the top or middle rail tube at an upright in conjunction with a 'DDA01 UPRIGHT CONNECTOR'. The Ø42.4mm (C tube) is fixed to this fitting using either 2 x self tapping screws or 2 x pop rivets.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



#### DDA05: END RETURN

(Disabled Access Range)

For terminating the Ø42.4mm (C tube) handrail tube back to a wall. Used in conjunction with a DDA07 INTERNAL CONNECTOR.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



#### DDA06: 90° BEND

(Disabled Access Range)

Expanding elbow for creating a smooth 90° bend in the Ø42.4mm (C tube).

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



# DDA07: INTERNAL CONNECTOR

(Disabled Access Range)

Expanding internal connector for joining sections of Ø42.4mm (C tube), or other DDA fittings.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.







### DDA08: PLASTIC END CAP

(Disabled Access Range)

Ø48.3mm plastic end cap for inserting into the open tube on the top of the upright. For a permanent fix, a suitable adhesive should be used.



### DDA09: ADJUSTABLE BEND

(Disabled Access Range)

For creating an adjustable bend between the horizontal and the vertical.

Cast iron galvanised to BS EN ISO 1461.

Meets the requirements of part 'M' of the Building Regulations 2004 regarding provisions for disabled people.



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