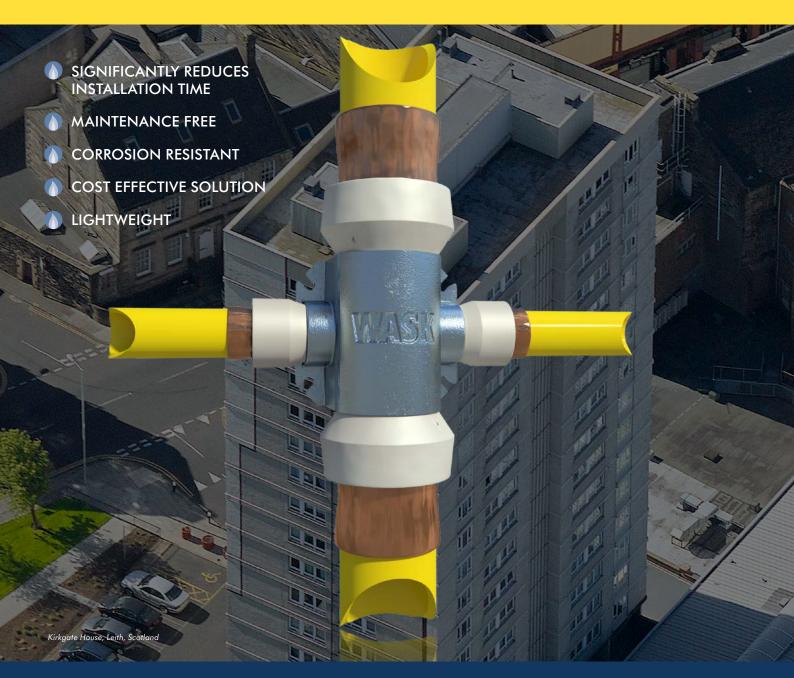


RISER & LATERAL SYSTEM

UNIQUE MODULAR PE SYSTEM FOR MULTI OCCUPANCY DWELLINGS



FROM MAINS TO METER



FROM MAINS TO METER

The WASK Riser & Lateral system comprises a range of dedicated corrosion resistant metal fittings, which can be attached to the outside wall of a building.

Standard PE pipe connects to each fitting using the WASK site-assembled crimp joint to complete the system. The supply enters each dwelling through an outside wall by means of a WASK house entry tee or house entry elbow.

The PE pipe is protected against sunlight and mechanical damage by means of GRP sleeves retained in place by wall clips. The system is lightweight and does not require skilled welders or pipe-fitters to install. Costs of installing the WASK Riser & Lateral system show savings of around 50% compared

to an all-steel system. The WASK crimp joint is fully approved to British Gas specification GIS/PL3.

The construction of a gas supply to a multi-occupancy building requires special consideration. Whilst the pipe work within each dwelling is the responsibility of the occupier, the communal pipe work presents particular problems.

Recommendations governing the construction of gas systems in multi-occupancy buildings are described in the British Institution of Gas Engineers' document IGE/G/5.

The document describes both internal and external piping systems. Fitting the communal pipework to the outside of the building provides several advantages. Internal piping requires dedicated ducts, wall and floor seals and access for maintenance, particularly where the pipes pass through domestic areas. The IGE recommendations therefore permit distribution piping to be fitted outside the building.













ANDREW WELFARE WASK Engineering Manager



WHAT ARE THE KEY PROBLEMS FITTERS FACE?

"The main issues a fitter faces relate to material handling and ease of construction. The PE pipe and GRP cover sleeve are light weight, simple to cut to length and can be easily and quickly joined. Then depending on the height of the building, access can be via a cherry picker or a wall climbing platform rather than traditional scaffolding. Making a Crimp joint is a process most Gas Service Fitters are very conversant with and the new power tool introduced for 63mm PE now means all the joints can be made simply in minutes with minimal physical effort.









AND, WHAT IS UNIQUE ABOUT THE WASK SYSTEM?

"The WASK system is the only approved method of constructing PE risers to a multi-occupancy dwelling. The latest Mk3 Riser & Laterals design is a modular construction allowing a wide range of fitting variants to be quickly configured to suit the differing types of building architecture encountered around the country. And a big plus is it enables us to react to unplanned emergency works.

SO, WHY IS IT SUCH AN ATTRACTIVE PROPOSITION?



coupled with the enhanced

corrosion protection introduced with the Mk3 designs ensures installations have a 50 year design life, ideal for even the



most demanding environments such as coastal locations. This means that further maintenance during that period will not be required which substantially reduces the whole life costs of the installation.

AND, WHAT ARE THE SAVINGS?



"The main savings are reduced installation budgets and minimising

long term maintenance costs. The system can be built using existing service laying teams, not requiring any steel welding or sub-contract services; there is no requirement for specialist fittings to deal with expansion and contraction; it can be constructed without the need for scaffolding and once erected needs no additional on-site protection as it is factory coated with a resistant zinc finish. This last factor is a significant one as



continued inspection, repair and re-painting of the steel pipework is one of the main costs often overlooked with this type of installation."

WASK RISER & LATERAL SYSTEM

WASK RISER & LATERAL SYSTEM





KIRKGATE HOUSE, LEITH, EDINBURGH

PROJECT

Upgrade the gas service pipe network to a high rise social housing block to ensure continuous and reliable gas supplies.

PROBLEM

Replace existing corroded steel risers on north and south side of Kirkgate House, an 18 storey high rise.

SOLUTION

Install a new polyethylene network of risers and laterals to ensure at least a 50 year lifespan.

The installation and commissioning of each riser took less than a week utilising a cherry picker which made upgrading significantly quicker that the traditional method of scaffolding and offers additional Health and Safety benefits for installers.

ADVANTAGES OF PE VERSUS STEEL

| SUBJECT | WASK PE SYSTEM | STEEL SYSTEM | |
|-------------------------|--|--|--|
| Installation Safety | Can usually be installed using a 'Cherry Picker' or lifting platform which are safer to installers & dangerous to installers & public, as well as enabling a quicker operation. Almost always needs scaffolding which is dangerous to installers & public. Potential as installation is in place over more than | | |
| Maintenance | Totally Maintenance free. | Likely to need painting or replacement during service life | |
| Resistance to Expansion | Highly resistant as the PE pipe is flexible & the GRP, telescopic. No expansion joints necessary. | In many cases will require expansion joints which are expensive & present a higher leakage risk. | |
| Cathodic Protection | No cathodic reaction as the PE carries no current. | In most cases, will require insulation joints to protect against this. | |
| Rigidity | Not as rigid as steel but highly flexible & resistant to leaks if de-mounted. | Very rigid if bracketed correctly although will fracture easily if de-mounted. | |
| Vandal Resistance | Not as resistant as steel although bottom storeys can be completed in steel to eliminate problem. | Highly resistant when new but decreases as corrosion sets in. | |



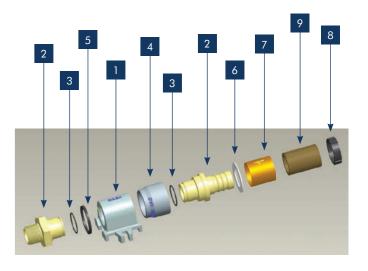


WASK PE System (MK2 design installed c. 1990)

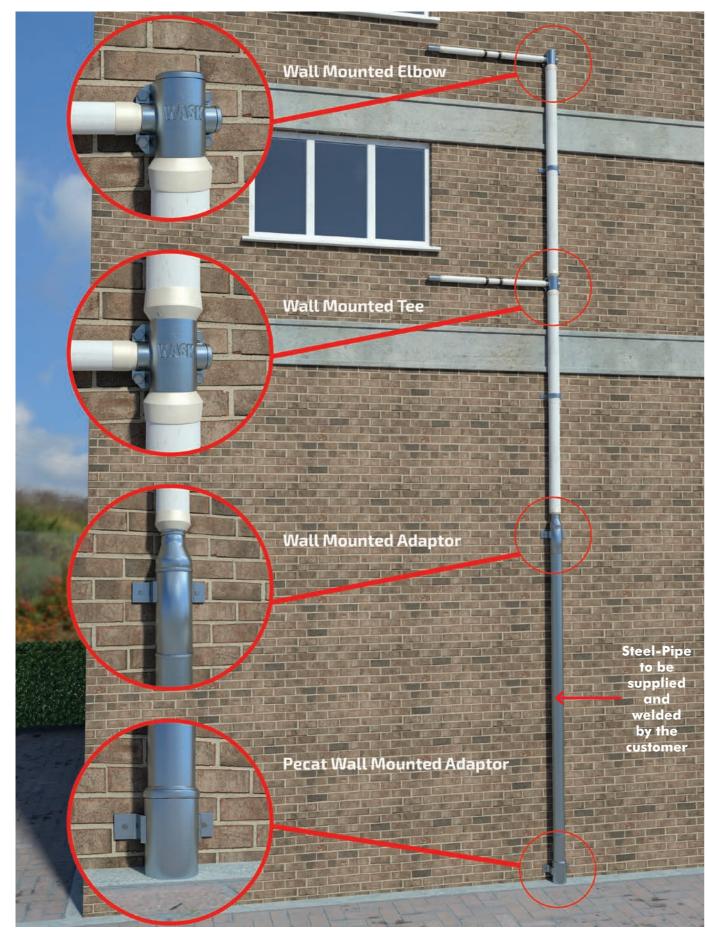
Steel System

MATERIALS

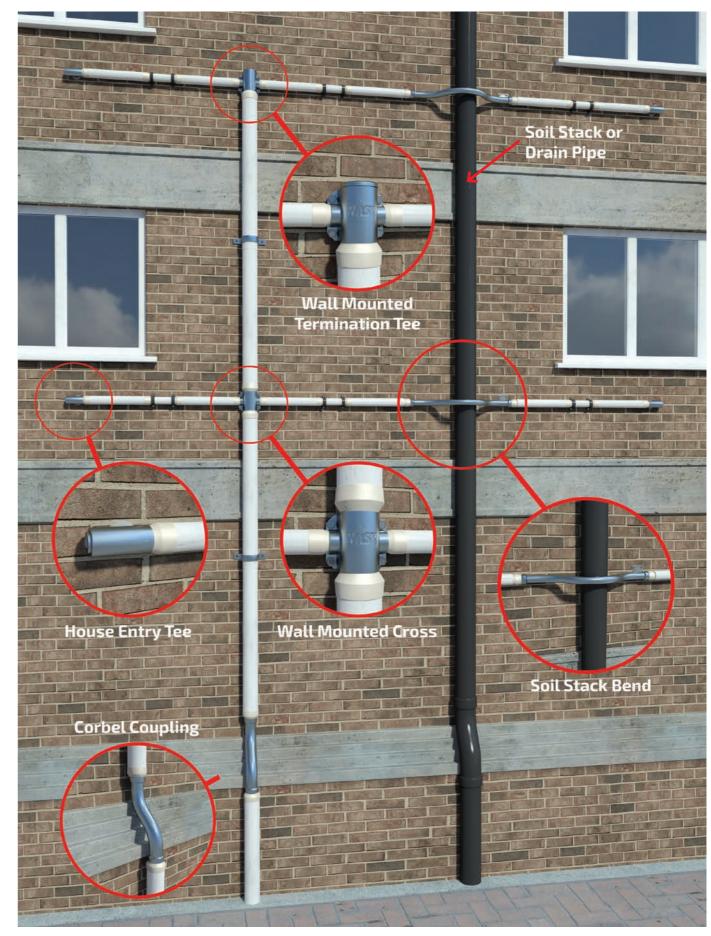
| NO. | PART | MATERIAL |
|-----|--------------------------|--|
| 1 | Body Casting | Coating: Hot dip galvanized to BS EN 1461 |
| 2 | Inserts | Steel to BS EN 10277-3 11SMn30 Coating: Zinc plated to BS EN ISO 2081 |
| 3 | Primary O' ring seals | BS EN 549 B2 H3 (gas approved) |
| 4 | Shroud | Thermoplastic Elastomer with UV stablelization |
| 5 | Insert Seal | EPDM |
| 6 | Plastic Washer | Acetal |
| 7 | Crimp Ring | Copper |
| 8 | Spacer rubber | EPDM |
| 9 | Packing ring | Cardboard |



3 WASK RISER & LATERAL SYSTEM WASK RISER & LATERAL SYSTEM 4 Single Sided Installation Double Sided Installation



1st floor in steel option for anti-vandalism



Grey GRP shown for illustration purposes. Black GRP also available.

WASK RISER & LATERAL SYSTEM 6 WASK RISER & LATERAL SYSTEM

FITTING LIST

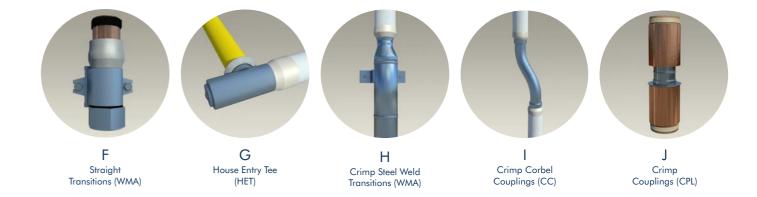
| FITTING TYPE | SIZE | WALL MOUNTED | | NON-WALL MOUNTED | |
|------------------|---------------------------|--------------|---------|------------------|---------|
| FITTING TIPE | SIZE | GREY | BLACK | GREY | BLACK |
| | 32 x 25 LH | AD0193 | AD0193B | N/A | N/A |
| | 32 x 25 RH | AD0194 | AD0194B | N/A | N/A |
| | 63 x 32 LH | AD0195 | AD0195B | N/A | N/A |
| | 63 x 32 RH | AD0196 | AD0196B | N/A | N/A |
| | 63 x 25 LH | AD0197 | AD0197B | N/A | N/A |
| | 63 x 25 RH | AD0198 | AD0198B | N/A | N/A |
| | 25 | AD0313 | AD0313B | AD0191 | AD0191B |
| | 32 | AD0238 | AD0238B | AD0192 | AD0192B |
| | 63 | AD0263 | AD0263B | AD0302 | AD0302B |
| | 32 x 3/4" FEM RH | AD0264 | AD0264B | N/A | N/A |
| Α | 32 x 3/4" FEM LH | AD0265 | AD0265B | N/A | N/A |
| 90° Elbow | 32 x 1" FEM RH | AD0268 | AD0268B | N/A | N/A |
| (WME & RE) | 32 x 1" FEM LH | AD0269 | AD0269B | N/A | N/A |
| | 63 x 2" FEM RH | AD0300 | AD0300B | N/A | N/A |
| | 63 x 2" FEM LH | AD0301 | AD0301B | N/A | N/A |
| | 32 x 25 | N/A | N/A | AD0244 | AD0244B |
| | 32 x 3/4" MBA | N/A | N/A | AD0274 | AD0274B |
| | 32 × 20 | N/A | N/A | AD0303 | AD0303B |
| | 25 × 20 | N/A | N/A | AD0304 | AD0304B |
| | 32 x 3/4" FEM | N/A | N/A | AD0307 | AD0307B |
| | 32 x 20 RH | AD0311 | AD0311B | N/A | N/A |
| | 32 x 20 LH | AD0312 | AD0312B | N/A | N/A |
| _ | 32 x 25 LH | AD0239 | AD0239B | N/A | N/A |
| В | 32 x 25 RH | AD0240 | AD0240B | N/A | N/A |
| 45° Elbow | 32 | AD0241 | AD0241B | AD0243 | AD0243B |
| (WME & RE) | 32 x 25 | N/A | N/A | AD0242 | AD0242B |
| | 63 x 25 | AD0199 | AD0199B | N/A | N/A |
| | 63 x 32 | AD0200 | AD0200B | N/A | N/A |
| | 32 × 25 | AD0201 | AD0201B | AD0246 | AD0246B |
| | 32 | AD0202 | AD0202B | AD0247 | AD0247B |
| | 63 x 2" FEM RH | AD0253 | AD0253B | N/A | N/A |
| | 63 x 2" FEM LH | AD0254 | AD0254B | N/A | N/A |
| С | 63 | AD0262 | AD0262B | N/A | N/A |
| Tee (WMT & RT) | 32 x 3/4" FEM | AD0296 | AD0296B | N/A | N/A |
| iee (WMI & KI) | 32 x 1" FEM | AD0299 | AD0299B | N/A | N/A |
| | 32 x 3/4" MBA | N/A | N/A | AD0275 | AD0275B |
| | 32 x 1" FEM x 3/4" FEM LH | AD0305 | AD0305B | N/A | N/A |
| | 32 x 1" FEM x 3/4" FEM RH | AD0306 | AD0306B | N/A | N/A |
| | 32 × 20 | AD0309 | AD0309B | N/A | N/A |
| | 25 | AD0314 | AD0314B | N/A | N/A |
| 5 | 63 x 32 | AD0234 | AD0234B | N/A | N/A |
| D | 32 × 25 | AD0245 | AD0245B | N/A | N/A |
| Termination | 63 x 25 | AD0293 | AD0293B | N/A | N/A |
| Tee (WMTT) | 32 × 20 | AD0310 | AD0310B | N/A | N/A |
| | 63 x 32 | AD0235 | AD0235B | N/A | N/A |
| | 32 | AD0236 | AD0236B | AD0249 | AD0249B |
| | 32 x 25 | AD0237 | AD0237B | AD0248 | AD0248B |
| _ | 63 x 2" FEM | AD0255 | AD0255B | N/A | N/A |
| Е | 32 x 1" FEM | AD0256 | AD0256B | N/A | N/A |
| Cross (WMC & RC) | 63 | AD0261 | AD0261B | N/A | N/A |
| | 63 X 25 | AD0292 | AD0292B | N/A | N/A |
| | 2" MAL x 63 x 32 | AD0308 | AD0308B | N/A | N/A |
| | | | | , | , |

A B C Tee (WMT & RT) Temination Tee (WMTT) E Cross (WMC & RC)

FITTING LIST

| FITTING TYPE | SIZE | WALL M | OUNTED | NON-WALL | N-WALL MOUNTED | |
|--------------------------|-----------------|--------|---------|----------|----------------|--|
| FITTING TIPE | SIZE | GREY | BLACK | GREY | BLACK | |
| | 32 x 3/4" FEM | BD0053 | BD0053B | N/A | N/A | |
| | 32 x 1" FEM | BD0054 | BD0054B | N/A | N/A | |
| | 25 x 3/4" FEM | BD0055 | BD0055B | N/A | N/A | |
| F | 63 x 2" FEM | BD0056 | BD0056B | N/A | N/A | |
| Straight | 32 x 1" MAL | BC0052 | BC0052B | N/A | N/A | |
| Transitions (WMA) | 63 x 2" MAL | BC0053 | BC0053B | N/A | N/A | |
| | 25 x 3/4" MAL | BC0054 | BC0054B | N/A | N/A | |
| | 25 x 1" MAL | BC0055 | BC0055B | N/A | N/A | |
| | 32 x 1 x 150 | AF0134 | AF0134B | N/A | N/A | |
| | 32 x 1 x 295 | AF0135 | AF0135B | N/A | N/A | |
| | 32 x 1 x 345 | AF0132 | AF0132B | N/A | N/A | |
| | 32 x 1 x 500 | AF0133 | AF0133B | N/A | N/A | |
| C | 32 x 1 x 750 | AF0143 | AF0143B | N/A | N/A | |
| G | 25 x 3/4 x 150 | AF0138 | AF0138B | N/A | N/A | |
| House Entry Tee (HET) | 25 x 3/4 x 295 | AF0139 | AF0139B | N/A | N/A | |
| | 25 x 3/4 x 345 | AF0136 | AF0136B | N/A | N/A | |
| | 25 x 3/4 x 500 | AF0137 | AF0137B | N/A | N/A | |
| | 25 x 3/4 x 610 | AF0140 | AF0140B | N/A | N/A | |
| | 25 x 3/4 x 750 | AF0142 | AF0142B | N/A | N/A | |
| H Crimp Steel Weld | 2" Steel x 63 | AD0297 | AD0297B | N/A | N/A | |
| Transitions (WMA) | 3" Steel x 63 | AD0298 | AD0298B | N/A | N/A | |
| | 63 x 120 Offset | N/A | N/A | AH0039 | AH0039B | |
| | 63 x 185 Offset | N/A | N/A | AH0040 | AH0040B | |
| | 63 x 130 Offset | N/A | N/A | AH0041 | AH0041B | |
| | 63 x 140 Offset | N/A | N/A | AH0042 | AH0042B | |
| | 63 x 150 Offset | N/A | N/A | AH0043 | AH0043B | |
| | 63 x 160 Offset | N/A | N/A | AH0044 | AH0044B | |
| 1 | 63 x 170 Offset | N/A | N/A | AH0045 | AH0045B | |
| Crimp Corbel | 63 x 180 Offset | N/A | N/A | AH0046 | AH0046B | |
| Couplings (CC) | 63 x 190 Offset | N/A | N/A | AH0047 | AH0047B | |
| | 63 x 200 Offset | N/A | N/A | AH0048 | AH0048B | |
| | 63 x 210 Offset | N/A | N/A | AH0049 | AH0049B | |
| | 63 x 220 Offset | N/A | N/A | AH0050 | AH0050B | |
| | 63 x 230 Offset | N/A | N/A | AH0051 | AH0051B | |
| | 63 x 240 Offset | N/A | N/A | AH0052 | AH0052B | |
| | 63 x 250 Offset | N/A | N/A | AH0053 | AH0053B | |
| J | 20 x 20 | AH0014 | N/A | N/A | N/A | |
| _ | 25 x 20 | AH0015 | N/A | N/A | N/A | |
| Crimp Couplings (CPL) | 32 x 32 | AH0016 | N/A | N/A | N/A | |
| | 63 x 63 | AD0267 | N/A | N/A | N/A | |

Lead times available upon request.



7 WASK RISER & LATERAL SYSTEM 8

FITTING LIST

| FITTINIC TYPE | CIZE | WALL MOUNTED | | NON-WALL MOUNTED | |
|--------------------|---------------------------|------------------|--------------------|------------------|------------|
| FITTING TYPE | SIZE | GREY | BLACK | GREY | BLACK |
| | 25 x 25 x 118mm Offset | AH0076 | AH0076B | N/A | N/A |
| | 25 x 25 x 128mm Offset | AH0077 | AH0077B | N/A | N/A |
| | 25 x 25 x 138mm Offset | AH0078 | AH0078B | N/A | N/A |
| | 25 x 25 x 148mm Offset | AH0079 | AH0079B | N/A | N/A |
| | 25 x 25 x 158mm Offset | AH0080 | AH0080B | N/A | N/A |
| | 25 x 25 x 168mm Offset | AH0081 | AH0081B | N/A | N/A |
| | 25 x 25 x 178mm Offset | AH0082 | AH0082B | N/A | N/A |
| | 25 x 25 x 188mm Offset | AH0083 | AH0083B | N/A | N/A |
| | 25 x 25 x 198mm Offset | AH0084 | AH0084B | N/A | N/A |
| | 25 x 25 x 208mm Offset | AH0085 | AH0085B | N/A | N/A |
| | 25 x 25 x 218mm Offset | AH0086 | AH0086B | N/A | N/A |
| | 32 x 32 x 118mm Offset | AH0066 | AH0066B | N/A | N/A |
| | 32 x 32 x 178mm Offset | AH0067 | AH0067B | N/A | N/A |
| | 32 x 32 x 138mm Offset | AH0068 | AH0068B | N/A | N/A |
| | 32 x 32 x 148mm Offset | AH0069 | AH0069B | N/A | N/A |
| K | 32 x 32 x 146/min Offset | AH0054 | AH0054B | N/A | N/A |
| | 32 x 32 x 156mm Offset | AH0070 | AH0070B | N/A | N/A |
| Crimp Soil Stack | 32 x 32 x 100mm Offset | AH0070 | AH0071B | N/A | N/A |
| Bends (SSB) | 32 x 32 x 17611111 Offset | AH0071 | AH0071B | N/A | N/A |
| | 32 x 32 x 100mm Offset | AH0072 | AH0072B | N/A | N/A |
| | 32 x 32 x 776mm Offset | AH0073 | AH0073B | N/A | N/A |
| | 32 x 32 x 20011111 Offset | AH0074 AH0075 | AH0074B | N/A | N/A |
| | 63 x 63 x 158mm Offset | AH0055 | AH0055B | N/A | N/A |
| | 63 x 63 x 138mm Offset | AH0056 | AH0056B | N/A | N/A |
| | 63 x 63 x 128mm Offset | AH0056 AH0057 | AH0056B AH0057B | N/A N/A | N/A N/A |
| | 63 x 63 x 138mm Offset | AH0057 AH0058 | AH0057B | N/A N/A | N/A |
| | 63 x 63 x 136mm Offset | AH0059 | AH0059B | N/A N/A | N/A N/A |
| | 63 x 63 x 146mm Offset | AH0059 AH0060 | AH0059B AH0060B | N/A N/A | N/A N/A |
| | 63 x 63 x 178mm Offset | AH0061 | AH0060B AH0061B | N/A N/A | N/A N/A |
| | 63 x 63 x 176mm Offset | AH0061 AH0062 | AH0061B AH0062B | N/A N/A | N/A N/A |
| | 63 x 63 x 188mm Offset | AH0062 AH0063 | AH0062B AH0063B | N/A N/A | N/A N/A |
| | 63 x 63 x 196mm Oπset | AH0064 | AH0064B | N/A | N/A N/A |
| | 63 x 63 x 208mm Oπset | | | | |
| | | AH0065 | AH0065B | N/A | N/A |
| L | 63 x 2" Steel - Weld | AD2119 | N/A | N/A | N/A |
| PECAT Wall Mounted | 90 x 3" Steel - Weld | AD2120 | N/A | N/A | N/A |
| Adaptor (PWMA) | 62 x 2" Fem | AD2124 | N/A | N/A | N/A |
| | 82 x 4m | DY0136 | DY0327 | N/A | N/A |
| M | 82 x 2m | DY0331 | DY0333 | N/A | N/A |
| GRP Kits | 82 x 2m Extension | DY0332 | DY0334 | N/A | N/A |
| OIG IGIS | 82 x 3m | DY0341 | DY0342 | N/A | N/A |
| N | 38 x 3m x 5 length bundle | JK0218-5 | JK0195-5 | N/A | N/A |
| | 44 x 3m x 5 length bundle | JK0219-5 | JK0196-5 | N/A | N/A |
| GRP Tube | 82 x 3m | JK0207 | JK0197 | N/A | N/A |
| | 38 mm GRP Kit | DY0307 | DY0329 | N/A | N/A |
| | 44mm GRP Kit | DY0308 | DY0330 | N/A | N/A |
| O | 44 Bracket kit | DY0322 | N/A | N/A | N/A |
| Fixings | 82 Bracket (63) | DY0326 | DY0328 | N/A | N/A |
| | Rawl bolt box (x50) | JL0109 | N/A | N/A | N/A |
| | 20mm PE80 - Ratchet type | BE0042 | N/A | N/A | N/A |
| | 25mm PE80 - Ratchet type | BE0043 | N/A | N/A | N/A |
| Р | 32mm PE80 - Ratchet type | BE0044 | N/A | N/A | N/A |
| | 63mm - REMS type | BE0036 | N/A N/A | N/A N/A | N/A N/A |
| Tools | REMS Power Pack | AC0296 | N/A N/A | N/A | N/A N/A |
| | KLIMO I OWEI FUCK | AC0290 | IN/A | IN/A | IN/A |

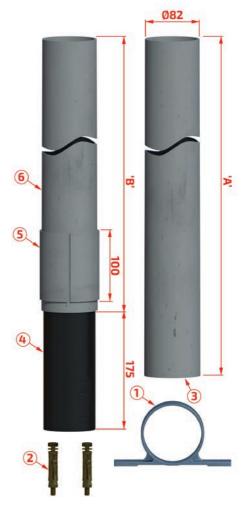
Lead times available upon request.



GRP KITS FOR 63mm

| NUMBER | DESCRIPTION |
|--------|-------------------------------------|
| 1 | Ø82 GRP SUPPORT BRACKET |
| 2 | 2 OFF Rawl Bolt M6x25mm Long |
| 3 | Ø82 x 3 Black GRP Tube |
| 4 | Ø75 PVC Insert |
| 5 | Ø82 Split Black GRP Tube x 100 Long |
| 6 | Ø82 x 3 Black GRP Tube |

| Α | В | GREY | BLACK | LENGTH |
|------|------|--------|--------|--------|
| N/A | 1.9M | DY0331 | DY0334 | 2.0m |
| 1.0m | 0.9m | DY0331 | DY0333 | 2.0m |
| 1.5m | 1.4m | DY0341 | DY0342 | 3.0m |
| 2.0m | 1.9m | DY0136 | DY0327 | 4.0m |



FIXING KIT CONTENTS - EXAMPLE

| QTY | DY0308 - GR | | | | |
|--|--|--|--|--|--|
| 2 Ø38 Snap-on Saddle pipe clip: Ellis Patents 90 -09 k | | | | | |
| 2 | Stainless steel A2 screws: No. 8 x 1 $\frac{1}{2}$ " long countersink Pozi. (DIN 7982) | | | | |
| 4 | Red plastic RAWL plugs no. 67-600 | | | | |
| 2 | Wask 44mm shroud - JA0288 | | | | |

FIXING KIT - USAGE

DY0307/DY0329: This is used on 25mm or 20mm PE runs which are predominantly 38mm GRP, it includes a 44mm Shroud as there is still a short piece of 44mm GRP required to allow telescoping between the 2 fixed points.)Note – this kit is effectively half of a 44mm GRP KIT).

DY0308/DY0330: This is used on 32mm PE runs, risers or laterals which are predominantly 44mm GRP but contain a short length of 38mm GRP to allow telescoping

DY0322: This is the kit for securing 44mm GRP so contains 44mm CLIPS and doesn't include any Shrouds, this is normally used to support Non-Wall Mounted types of fittings.

CRIMPING TOOLS

| SUBJECT | PART NO. | SIZE | FOR USE WITH PIPE | PAINT | |
|---------|--|------------------|-------------------|--------|--|
| | One piece malleable iron tools with ratchet style handle for the rapid construction of a crimp joint. Features a metal to metal stop for accurate joint construction. | | | | |
| | BE0043 | Tool Crimp 25mm | PE80 Only | Blue | |
| | BE0044 | Tool Crimp 32mm | PE80 Only | Yellow | |
| | Lightweight electric tooling with final lock positioning to complete a secure crimp joint in seconds. Bespoke crimp jaws are manufactured from forged and specially-hardened steel. | | | | |
| | DE002/ | T1 Ci /2* | DEGO OI. | N/A | |
| | BE0036 | Tool Crimp 63mm* | PE80 Only | N/A | |

WASK RISER & LATERAL SYSTEM 10



To visit our Video Library go to: www.youtube.com/user/CraneBSU



Visit our website to view our new video



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V_RLS_0816

FROM MAINS TO METER



BUILDING SERVICES & UTILITIES

