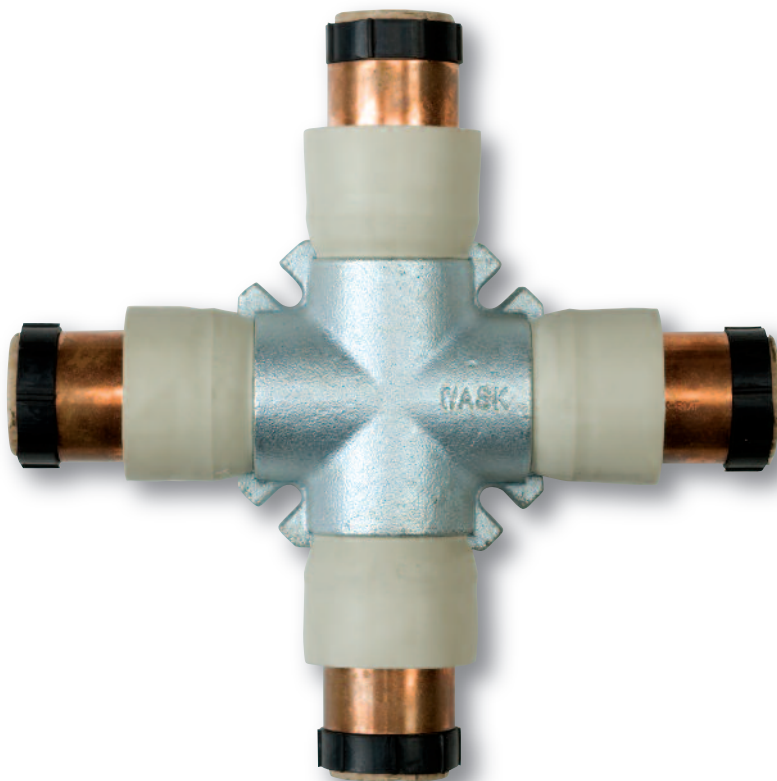


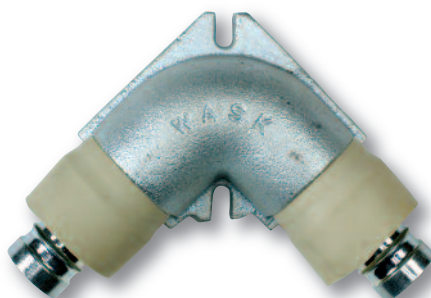
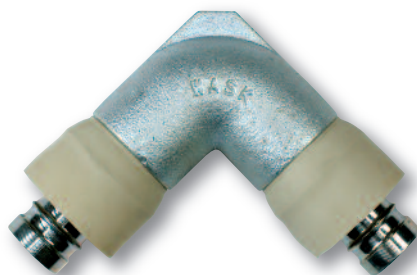
# RISER & LATERAL SYSTEM

External Polyethylene (PE)  
Sizes 25mm-32mm



## CONTENTS

3. General notes
4. 32mm Riser & Lateral telescopic sleeve arrangement
5. 25mm Lateral telescopic sleeve arrangement
6. Riser & Lateral extended telescopic sleeve arrangement
7. Riser and Lateral Telescopic Sleeve Seals
8. Stage 1 installation – locating & instalment of fittings
9. Stage 2 installation – sequence for connecting the PE & GRP pipe
14. Crimp joint instruction
15. Wall anchors & screw instructions
16. Fittings matrix

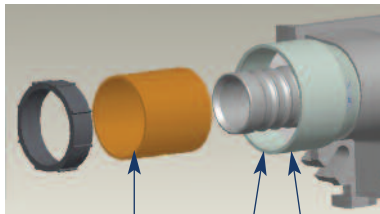


## GENERAL NOTES

1. The WASK gas lateral & riser system is for external use only.
2. The following instructions are based on installing the riser system working upwards.
3. The riser uses diameter 32mm PE with the majority of GRP sleeving in 44mm outside diameter. A 32mm lateral is also configured in the same manor.
4. Where the lateral is diameter 25mm PE, the majority of GRP sleeving is 38mm outside diameter.
5. Select a suitable location on the wall for the riser, taking into account any ground obstructions, other wall equipment & the service entry positions.
6. Where possible, ensure the service entry positions are in the same relative positions for each dwelling.
7. Changes in direction can be accommodated using a wall mounted elbow.
8. All above ground polyethylene pipe must be covered by the GRP sleeves.
9. Where long lengths of laterals are required, extra GRP pipe clips may need to be installed.
10. All PE pipe must be cut square to 1mm preferably using pipe shears. Pipe cut with a saw must be thoroughly de-burred & swarf removed prior to locating on crimp spigot.
11. The GRP pipe must be cut square to 1mm, remove both internal & external burrs.
12. Non-bracketed fittings can be used for negotiating internal & external corners. It is essential therefore, to fix retaining clips to the wall, approximately 150mm from the corner to support the GRP sleeving system.
13. The system may be used horizontally where appropriate, ie maisonettes above shops. Additional GRP sleeving retaining clips may be required where necessary.
14. Where the distance between fittings exceeds the length of available GRP sleeving, sections can be joined together.
15. Pressure test the system to the appropriate industry standards.

## 32MM RISER & LATERAL TELESCOPIC SLEEVE ARRANGEMENT

### Riser Fitting

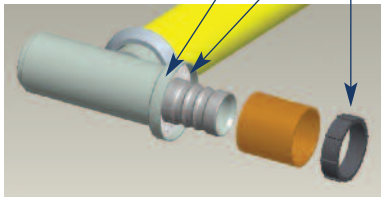


Crimp ring

Shroud

Washer

### House Entry Tee



Spacer rubber

44mm OD GRP sleeve in position to make final joint

38mm GRP sleeve  
Retaining clips  
Outer GRP sleeve  
44mm OD

150mm minimum

50mm

250mm

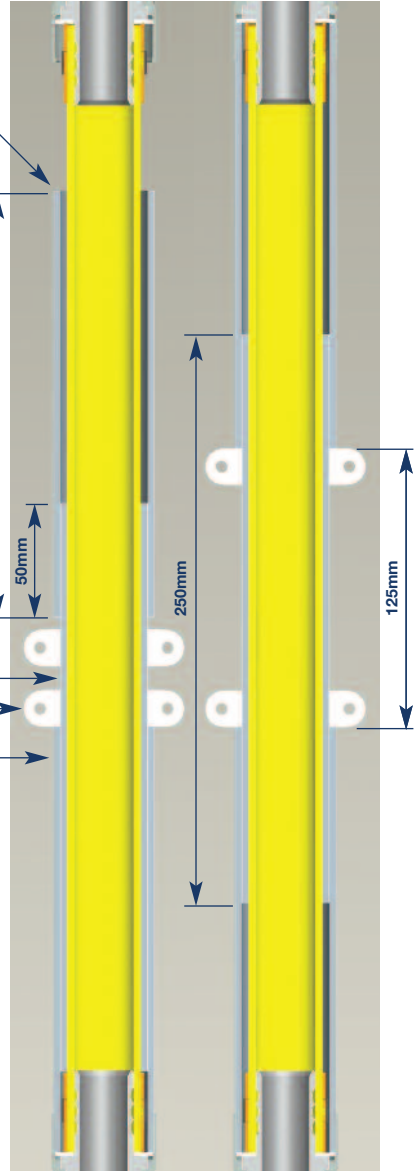
125mm

### Notes

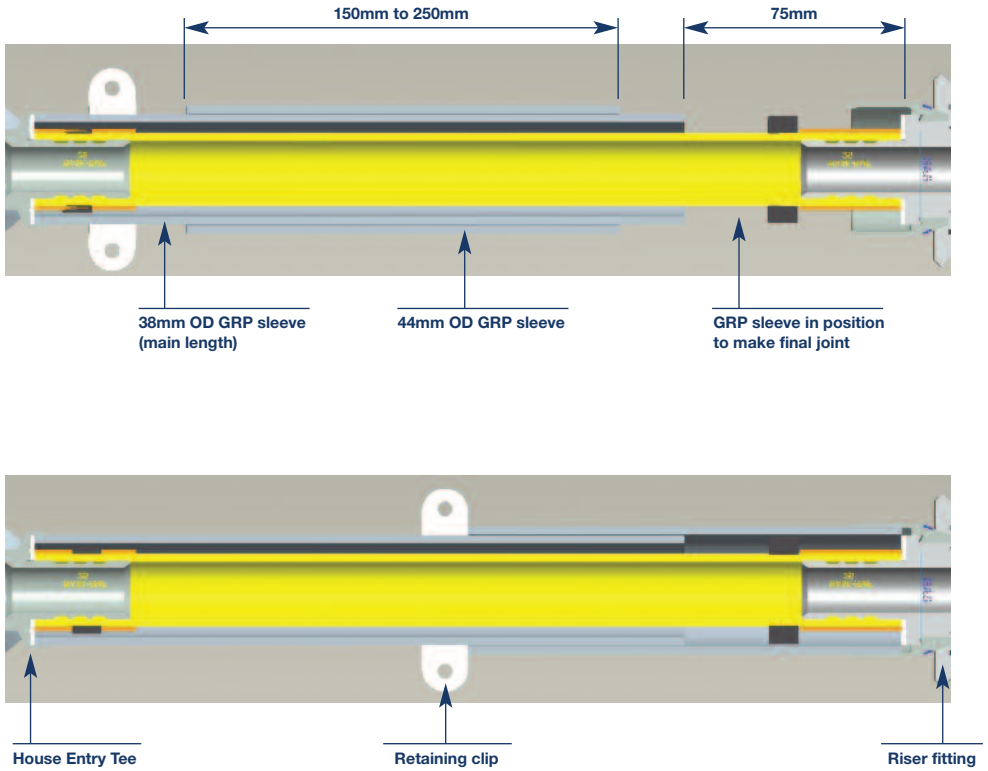
The same configuration & dimensions are used for the lateral on a 32mm installation.

The 44mm OD GRP sleeves make up the longer sections of the Riser or Lateral.

For longer installations, the upper or (last) 44mm OD GRP sleeve is more practical at the minimum length of 150mm, therefore the sleeving arrangement can be offset.



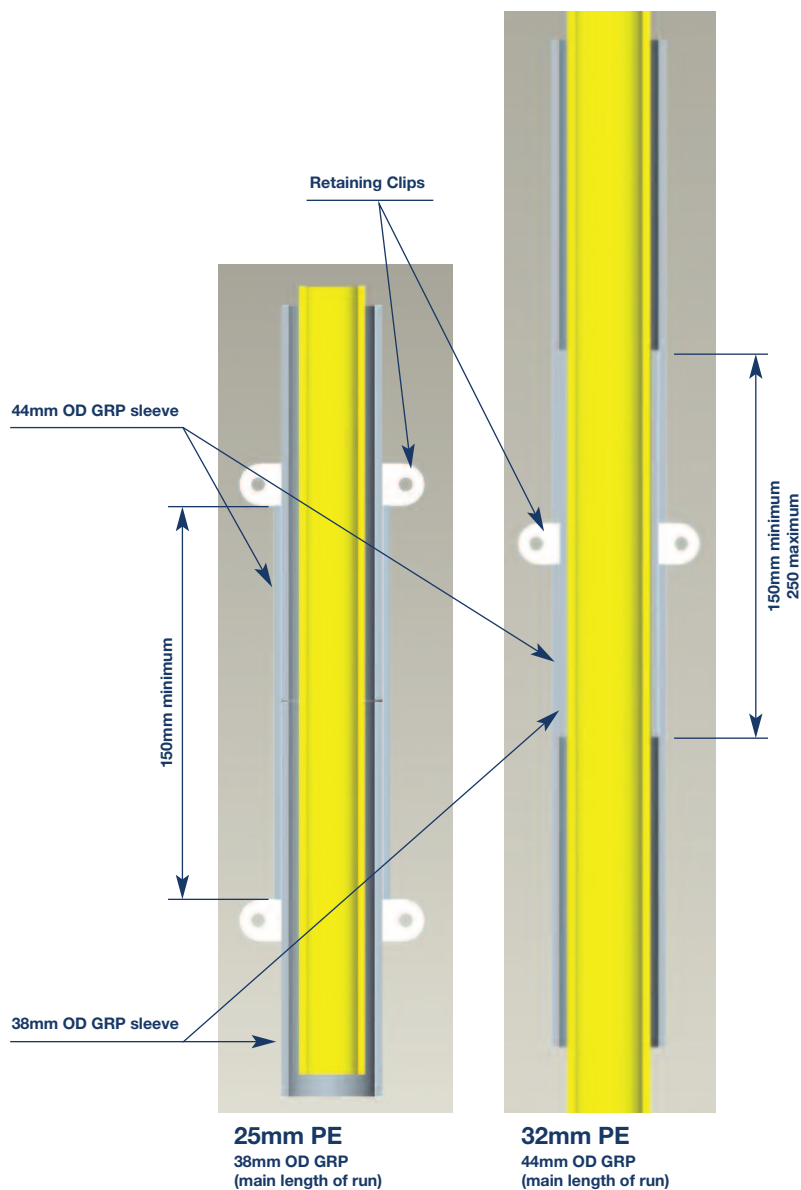
## 25MM LATERAL TELESCOPIC SLEEVE ARRANGEMENT



### Note

The 38mm OD GRP sleeve makes up longer section of Lateral.

# RISER & LATERAL EXTENDED TELESCOPIC SLEEVE ARRANGEMENT



## RISER AND LATERAL TELESCOPIC SLEEVE SEALS

To prevent rain water from entering the GRP sleeving on both the riser and lateral telescopic arrangement, a 44mm shroud (JA0288) can be slid over the 38mm GRP pipe and rolled back into the correct position.

Where there is a 44mm GRP sleeve which could allow water ingress a shroud seal must be fit

### Examples

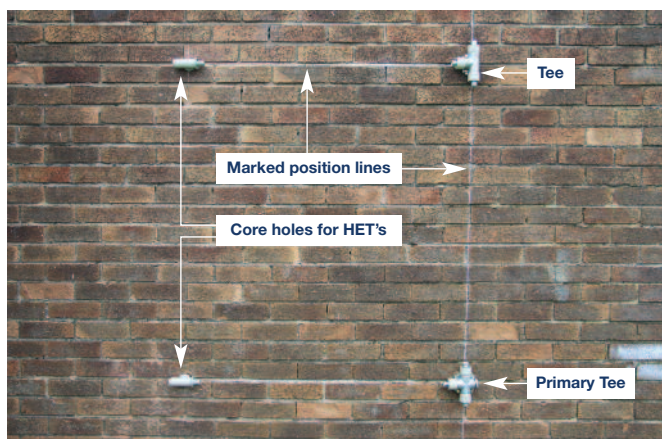


**32mm PE Lateral as shown above**  
**25mm PE Lateral shroud on one end only**



**32mm PE Riser as shown**

## STAGE 1 – LOCATION & INSTALMENT OF FITTINGS



1. Establish the meter locations & mark on the wall the appropriate entry positions.
2. Select a suitable position on the wall for the riser, taking into account any ground obstructions, other wall equipment & the service entry positions.
3. Mark a vertical line by a suitable method.
4. Mark a horizontal line from the entry point to the vertical marking by a suitable method.
5. Core drill each entry position, taking care not to damage the external & internal wall surfaces.
6. Align the riser fittings (Tee, Elbows etc) & mark the positions of the anchor screws.
7. Drill the anchors screw holes.  
**Note:** See page 14 for anchor drilling instructions.
8. Secure risers fittings to the wall using the screw kits provided and a 10mm A/F socket driver.
9. Locate the House Entry Tee's into the cored holes but do not fix to the internal wall with the retaining washer.

### Notes

The method of installation is working upwards.

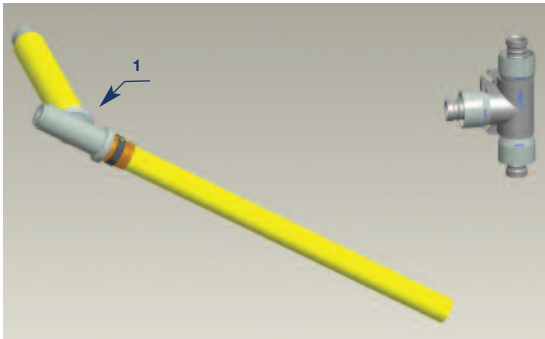
For the purpose of illustration the distance between the fittings has been reduced.



## STAGE 2 – SEQUENCE FOR CONNECTING THE PE & GRP PIPE

1. Measure the distance between riser fitting & House Entry Tee plastic washer. Cut a length of PE pipe to suit, making sure ends are cut square to 1mm pipe using pipe shears. Note: If sawn, the internal & external burrs must be carefully removed.
2. Also at this stage, measure the vertical distance between plastic washers of riser fittings & cut the PE pipe allowing an extra 20mm for re-trimming later in the installation.
3. Slide the rubber spacer & copper crimp ring onto one end of the PE pipe.
4. Push the PE pipe onto House Entry Tee spigot until it touches the plastic washer.
5. Pull the House Entry Tee out of the wall enough to allow the fitting of the crimp tool and complete joint as the instruction leaflet provided in fitting bag. Instructions on crimp jointing are also in this document.
6. Locate the spacer rubber as shown below.

### Joint 1



### Notes

The wall has been omitted for clarity.

When making crimp joints the riser fittings in-turn are removed from the wall.

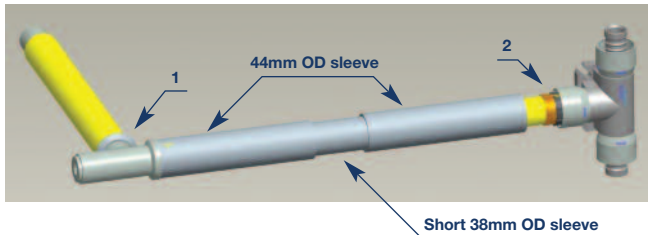
The sequence of connection must be followed as stated.

## STAGE 2 – SEQUENCE FOR CONNECTING FOR THE PE & GRP SLEEVE

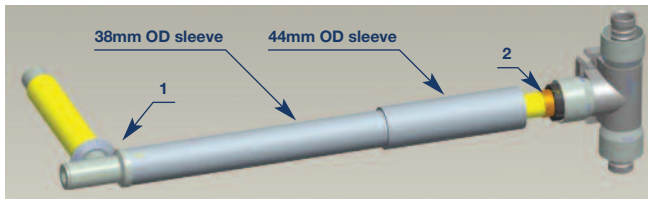


7. Cut to length the GRP sleeves to suit a centrally or offset clipped arrangement. See page 4 and 5 for 25mm or 32mm configurations. Remove all burrs.
8. Remove the screws from the first riser fitting put in a safe place.
9. Slide the GRP sleeves onto the PE taking care not to loose the short sleeve on a 32mm installation inside the longer sleeve.
10. Slide the spacer rubber & crimp ring onto the PE pipe.
11. Carefully peel back the rubber shroud on the branch of the riser fitting.
12. Push the riser fitting spigot onto the PE pipe so that it touches the plastic washer & complete the crimp joint as previously described.
13. Roll the shroud back to it's natural position.

### Joint 2 - 32mm Installation

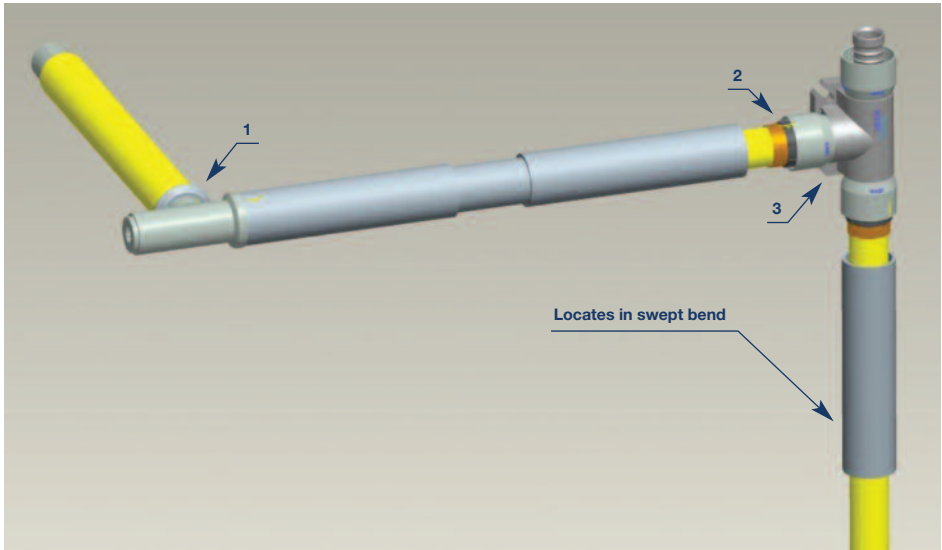


### Joint 2 - 25mm Installation



## STAGE 2 – SEQUENCE FOR CONNECTING FOR THE PE & GRP SLEEVE

### Joint 3



14. Cut a suitable length of PE long enough to connect the first riser fitting from the ground.

15. Cut square a suitable length of 44mm od GRP sleeve and slide over the PE. The GRP will need to be long enough to locate in a 32mm swept PVC bend if used.

16. Slide the spacer rubber & crimp ring onto PE pipe.

17. Carefully roll back the shroud on the riser fitting.

18. Push the PE pipe up to the plastic washer & complete joint as previously described.

19. Roll the shroud back to it's natural position.

**Note** The 32mm lateral is used in this illustration

## STAGE 2 – SEQUENCE FOR CONNECTING FOR THE PE & GRP SLEEVE

20. Slide the spacer rubber and crimp ring onto the previously cut PE pipe from page 8.

21. Carefully peel back the rubber shroud on the outlet of the riser fitting.

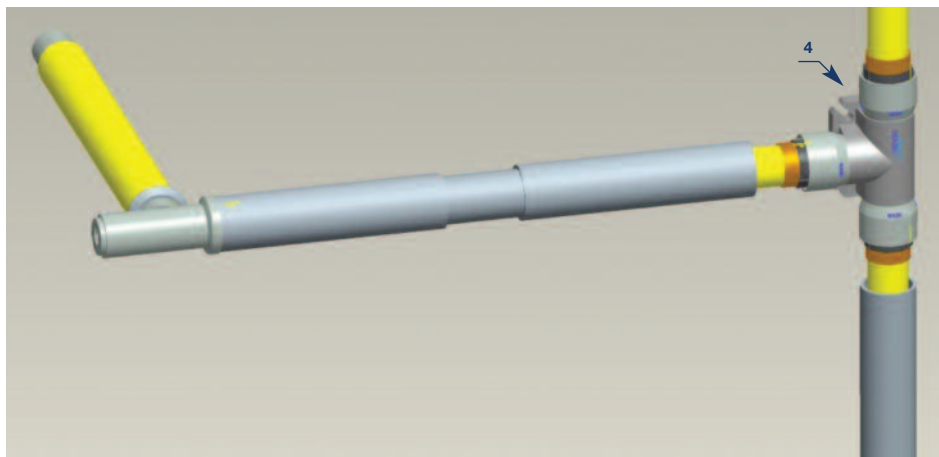
22. Push the PE pipe onto the riser fitting spigot until it touches the

plastic washer and completed the crimp joint as previously described.

23. Roll the shroud back to it's natural position

24. Re-locate the fixing screws in the riser fitting and align before tightening to the recommended torque.

### Joint 4



Fitting re-secured back onto wall



Repeat sequence on next level

**Note** The 32mm lateral is used in this illustration

## STAGE 2 – SEQUENCE FOR CONNECTING FOR THE PE & GRP SLEEVE



Securing the GRP



25. Cut the GRP sleeve to necessary lengths for the riser and slide over the upper PE tail

26. Position the GRP sleeves in the shrouds and fit the plastic pipe clips.

27. Mark the hole positions of the clips, drill, fit wall plug and secure.

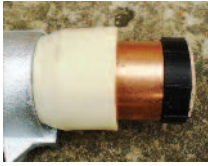
28. Repeat the installation in the same order for the next level. See Below.

### Notes

When connecting joint 3 of the next storey, trim back the PE pipe to accurately fit the distance between the plastic washer.

The 32mm lateral is used in this illustration

## PE CRIMP JOINTING INSTRUCTIONS (HAND TOOL)



1. Remove crimp ring & rubber spacer



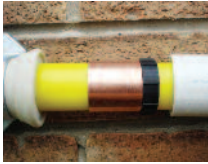
2. Cut PE pipe to required length. Ensure pipe is square & free from burrs.



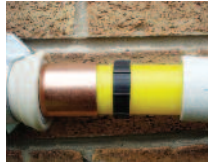
3. Slide GRP sleeve, spacer rubber & crimp ring onto the PE pipe & discard the cardboard packing.



4. Carefully peel back the shroud. Make sure the plastic washer is in place.



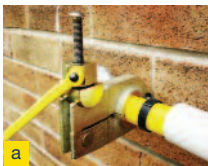
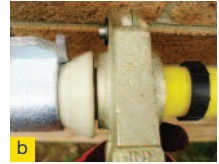
5. Push the pipe fully onto the spigot of the fitting.



6. Slide the crimp ring up to the plastic washer. The washer & crimp ring must be pushed against the shoulder of the spigot.



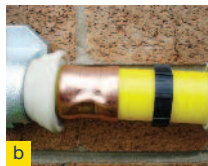
7. Carefully position the correct size of crimp tool centrally over the copper crimp ring. Close the jaws of the crimp tool lightly over the crimp ring, once again, check the tool is centrally positioned & the crimp ring, washer is against the shoulder of the spigot.



8. Screw the jaws of the crimp tool fully together. (ie, crimp jaws fully closed) to complete the joint.

**DO NOT** attempt to re-crimp once the tool has been removed from the joint.

**DO NOT** re-orientate the crimp tool on a partially completed joint.



9. Slide the spacer rubber over the crimp ring.

Carefully push the GRP sleeve over the spacer rubber & push up to the plastic washer.



Gently roll the shroud over the GRP sleeve.

### Note

Use the appropriate size tool (25mm or 32mm)



## WALL ANCHORS & SCREW INSTRUCTIONS

### Fitting wall anchors - Rawl M6 x 25mm long loose bolt

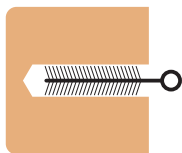
Socket – 10mm A/F (¼" SQ driver)

Torque – 6 to 10 Nm

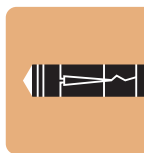
Substrates – Concrete, Brick & Stone



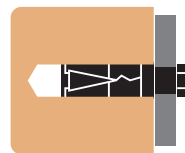
Drill Ø12 x 55 to  
60mm deep



Clear hole of dust



Insert shield into  
hole without  
the bolt



Align fitting  
with holes & insert  
bolts.

### Wall plug & screw for plastic pipe clips:

Wall plug - Rawl 'RED' HDPE

Stainless steel No.8 x 25mm long countersink Pozi screw












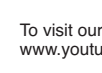
Drill Ø5.5 x 40mm deep



#### Note

Use only the wall anchors supplied to install the wall mounted fittings.

## FITTING MATRIX

PRODUCT	DESCRIPTION	RISER DIAMETER (mm)	PE 80 LATERAL	
			25mm	32mm
	Elbows - 90 degree Wall Mounted	25mm	-	-
		32mm	AD0193 (LH)	AD0238
			AD0194 (RH)	-
	Elbows - 90 degree Non-Wall Mounted	63mm	-	AD0195 (LH)
		25mm	-	AD0196 (RH)
			AD0191	-
	Elbows - 45 degree Wall Mounted	32mm	AD0244	AD0192
		63mm	-	-
	Elbows - 45 degree Non-Wall Mounted	25mm	-	-
		32mm	AD0239 (LH)	AD0241
			AD0240 (RH)	-
	Tee's Wall Mounted	63mm	-	-
		25mm	-	-
		32mm	AD0242	AD0243
	Tee's Non-Wall Mounted	63mm	-	-
		25mm	-	-
		32mm	AD0201	AD0202
	Termination Tee's Wall Mounted	63mm	-	AD0200
		25mm	-	-
		32mm	AD0246	AD0247
	Crosses Wall Mounted	63mm	-	-
		25mm	-	-
		32mm	AD0237	AD0236
	Crosses Non-Wall Mounted	63mm	-	AD0235
		25mm	-	-
		32mm	AD0248	AD0249
	Primary Tee's Wall Mounted	63mm	-	-
		32mm	AD0252	AD0251



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DELTA ROAD,  
ST HELENS, NWA9 2ED

TELEPHONE: +44 (0)1744 458649

FAX: +44 (0)1744 453675

EMAIL: [sales@wask-uk.com](mailto:sales@wask-uk.com)

[www.wask-uk.com](http://www.wask-uk.com)



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