



**Table 1: Maximum hole size**

		Nominal pipe diameter (mm)										
		40	50	56	63	65	75	80	90	100 /110	125	150 /160
Pipe type	PVC	60	73			86		99	107	127		168
	PVC & Fitting	60	73			86		99	107	127		
	HDPE	57	67	73	80		92		107	127	133	168
	Triplus	57	67				92		107	127		168
	Raupiano	57	67				92			127		168

Refer to Table 3 for the pipe diameter's sealant requirements

**Table 2: Required segments per pipe type**

		Nominal pipe diameter (mm)										
		40	50	56	63	65	75	80	90	100 /110	125	150 /160
Pipe type	PVC	15	18			21		24	26	29		2 x 40
	PVC & Fitting	17	20			23		26	27	31		
	HDPE	15	18	18	20		23		26	29	33	2 x 40
	Triplus	15	18				23		26	29		2 x 40
	Raupiano	15	18				23			29		2 x 40

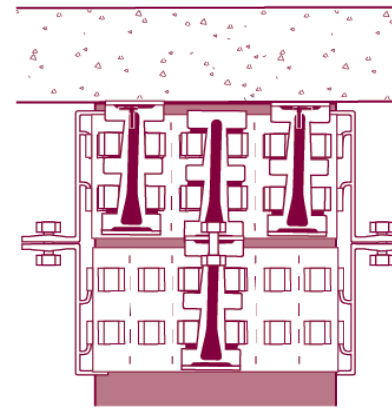
**Table 3: Sealant requirements**

Pipe Diameter (mm)	Annular Gap (mm)	Detail
40 - 160	0 - 2	Optional
40 - 110	2 - 8.5	10mm deep bead of Snap Fire Seal FRAS
125 - 160	0 - 4	

**Table 4: Required brackets per installation**

Number of brackets for various sizes of utility collars	
Plasterboard Lined Steel Stud Walls, Shaft Liner Walls, Speedpanel & Hebel Walls or Walsc AAC Panel Walls	
Pipe sizes (mm)	Number of brackets required
40 - 110	3
125 - 160	4
Concrete Slabs incl. Bondek Concrete/Masonry Walls, AFS Rediwall, AFS Logicwall & Dintel	
Pipe sizes (mm)	Number of brackets required
40 - 65	2
75 - 110	3
125 - 160	4

**Special installation: 150 collar**

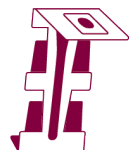


1. Make two 40-segment collars with brackets slotted in at 90 degree intervals on both.

2. Join the two collars together by inverting one collar and align the fixing holes.

3. Bolt the collars together through the fixing holes using M6 nuts and bolts.









4. Place four brackets at 90 degree intervals evenly around the collar to use as fixing points and secure the double collar to the element.










**Table 5: Required fixings**

HDPE pipes

Element	Nom. Pipe Diameter (mm)	Collar Fixing Type
Concrete Slab, Bondek Formwork, Concrete Wall, Dincel Wall, AFS Rediwall, AFS Logicwall & Masonry Wall  (Min. 25mm concrete embedment)	40 - 160	5 x 30mm Concrete Screw Bolt 
		6 x 35mm Steel Wedge Anchor  SUPPLIED
		6.5 x 40mm Steel Sleeve Anchor 
Single Layer Plasterboard Lined Steel Stud Wall	40 - 110	Min. M4 Steel Expandable Anchor 
Double Layer Plasterboard Lined Steel Stud Wall & Shaft Liner Wall	40 - 110	10g x 38mm Coarse Thread Laminating Screw  SUPPLIED
		Min. M4 Steel Expandable Anchor 
	125 - 160	Min. M4 Steel Expandable Anchor 
Hebel Panel or Block, Walsc AAC Panel & Speedpanel Walls	40 - 160	14g-10 x 65mm Hex Head Screw 

PVC, Triplus & Raupiano pipes

Element	Nom. Pipe Diameter (mm)	Collar Fixing Type
Concrete Slab, Bondek Formwork, Concrete Wall, Dincel Wall, AFS Rediwall, AFS Logicwall & Masonry Wall  (Min. 25mm concrete embedment)	40 - 160	5 x 30mm Concrete Screw Bolt 
		6 x 35mm Steel Wedge Anchor  SUPPLIED
		6.5 x 40mm Steel Sleeve Anchor 
Plasterboard Lined Steel Stud Wall & Shaft Liner Wall	40 - 110	10g x 38mm Coarse Thread Laminating Screw  SUPPLIED
	150 - 160	Min. M4 Steel Expandable Anchor 
Hebel Panel or Block, Walsc AAC Panel & Speedpanel Walls	40 - 160	14g-10 x 65mm Hex Head Screw 