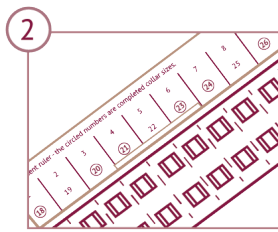
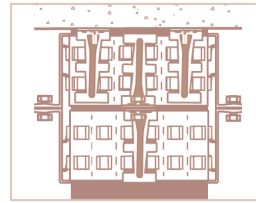


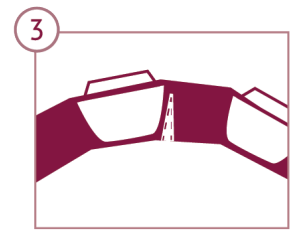
1 Create a hole in the wall or slab no larger than the maximum hole size (see Table 1, page 2)



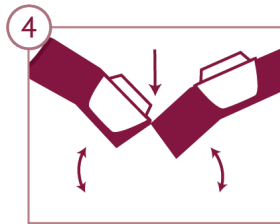
2 Count or measure required segments using ruler on box (see Table 2, page 2)



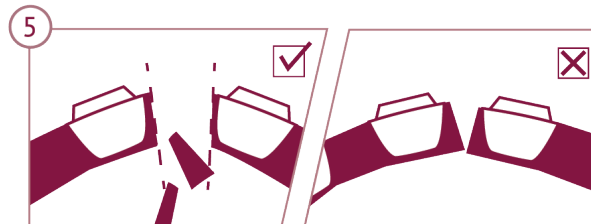
For 150 collar installations, use the Special Installation instructions on the data sheet



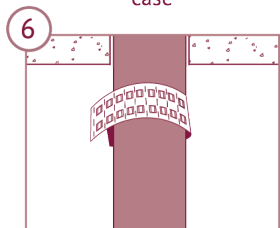
3 Cut intumescent strip



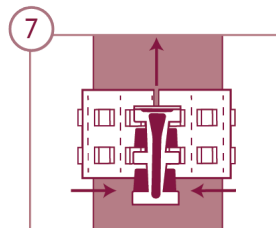
4 Bend and snap the metal case



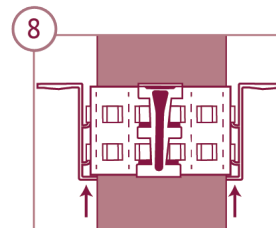
5 Trim the intumescent strip on an angle



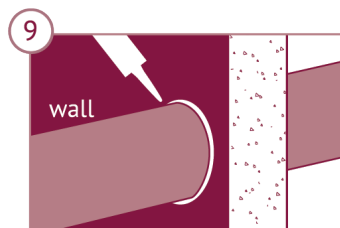
6 Wrap collar around pipe



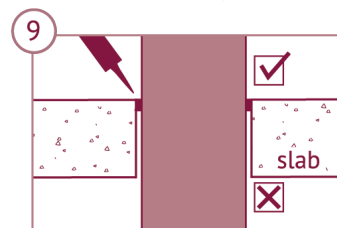
7 Clip collar together with a bracket



8 Add additional brackets spaced out evenly and fix (see Table 3, page 2)



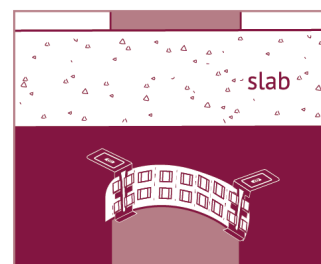
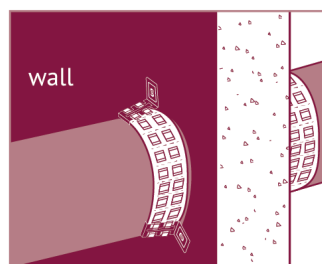
9 Seal annular gap between the wall and pipe on **both** sides as required (see Table 4, page 2)



9 Seal annular gap between the slab and pipe **only** on top as required (see Table 4, page 2)

or

Completed Installations



Fix the collar to the wall or slab with approved fixings (see Table 5, page 3)



Table 1: Maximum hole size

		Nominal pipe diameter (mm)									
		40	50	56	63	65	75	80	90	100/110	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	168
	Triplus	57	67				92		107	127	168
	Raupiano	57	67				92			127	168

Refer to Table 4 for the pipe diameter's sealant requirements

Table 3: Required brackets per installation

Number of brackets for various sizes of utility collars	
Plasterboard Lined Steel Stud Walls, Speedpanel & Hebel Powerpanel	
Pipe sizes (mm)	Number of brackets required
40 - 110	3
150/160	4
Concrete Slabs incl. Bondek Concrete Walls, AFS Rediwall, AFS Logicwall & Dintel	
Pipe sizes (mm)	Number of brackets required
40 - 65	2
75 - 110	3
150/160	4

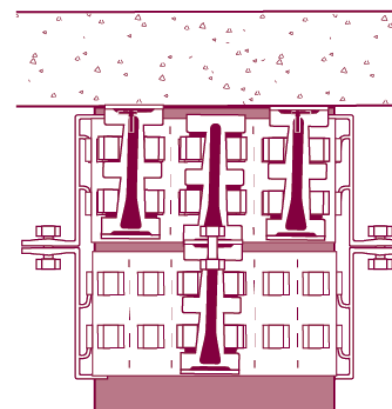
Table 2: Required segments per pipe type

		Nominal pipe diameter (mm)									
		40	50	56	63	65	75	80	90	100/110	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	2 x 40
	Triplus	15	18				23		26	29	2 x 40
	Raupiano	15	18				23			29	2 x 40

Table 4: Sealant requirements

Pipe Diameter (mm)	Annular Gap (mm)	Detail
40 - 160	0 - 2	Optional
40 - 110	2 - 8.5	10mm Deep Bead Of Fire-Rated Acoustic Sealant
150/160	0 - 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.

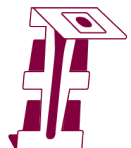




















Table 5: Required fixings

HDPE pipes

Element	Nom. Pipe Diameter (mm)	Collar Fixing Type
Concrete Slab, Concrete Wall, AFS Rediwall, AFS Logicwall & Dintel (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 
		5 x 32mm Mushroom Head Spike 
Single Layer Plasterboard Lined Steel Stud Wall	40 - 110	Min. M4 Steel Expandable Anchor 
Double Layer Plasterboard Lined Steel Stud Wall	40 - 110	10g x 38mm Coarse Thread Laminating Screw  SUPPLIED
		Min. M4 Steel Expandable Anchor 
	160	Min. M4 Steel Expandable Anchor 
Hebel Powerpanel & Speedpanel	40 - 160	14g-10 x 65mm Hex Head Screw 

PVC, Triplus & Raupiano pipes

Element	Nom. Pipe Diameter (mm)	Collar Fixing Type
Concrete Slab, Concrete Wall, AFS Rediwall, AFS Logicwall & Dintel (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 
		5 x 32mm Mushroom Head Spike 
Plasterboard Lined Steel Stud Wall	40 - 110	10g x 38mm Coarse Thread Laminating Screw  SUPPLIED
		Min. M4 Steel Expandable Anchor 
	150 - 160	Min. M4 Steel Expandable Anchor 
Hebel Powerpanel & Speedpanel	40 - 160	14g-10 x 65mm Hex Head Screw 