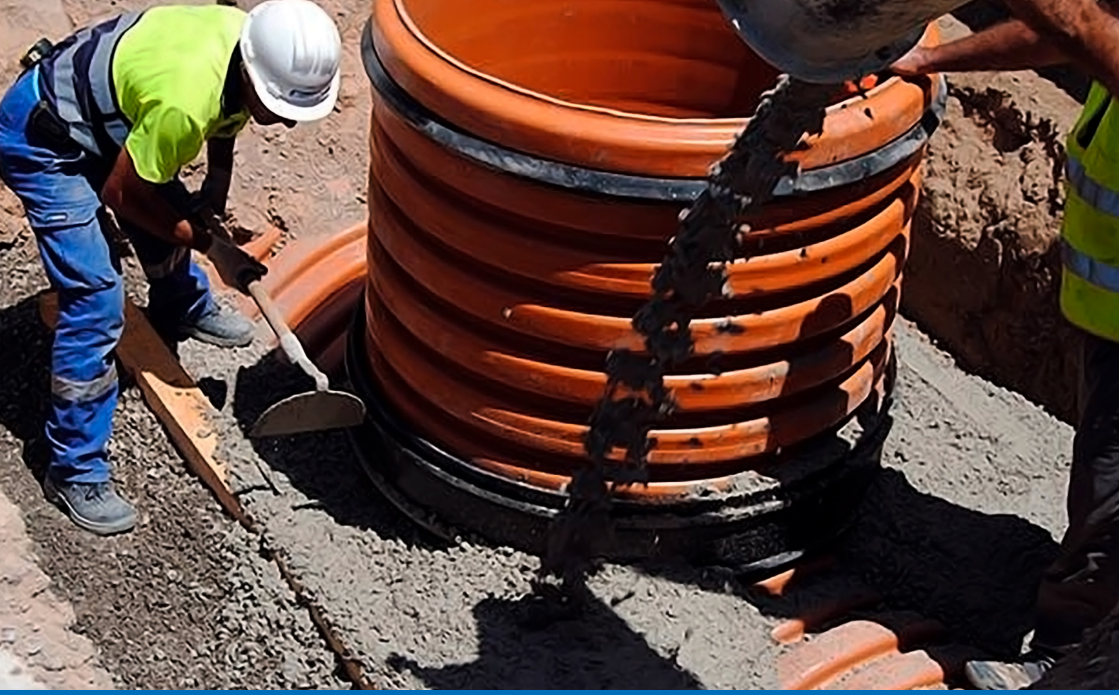


SANECOR

Installation instructions for SANECOR® inspection manholes



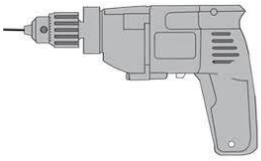



Inspection manholes

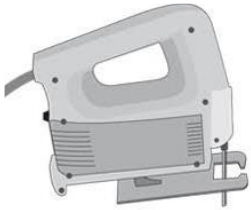
(for collectors of DN 800, 1000 and 1200)

MOLECOR
Smart water

1) TOOLS NECESSARY.



D r i l l



Jigsaw



Mill for drills
(Ø: 160, 200 and 250 mm)



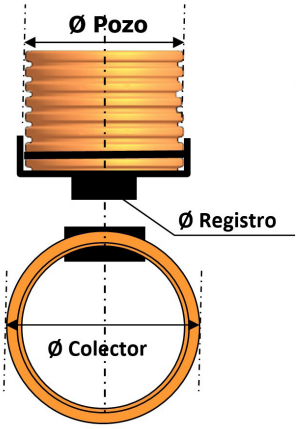
Bit Ø 10 mm

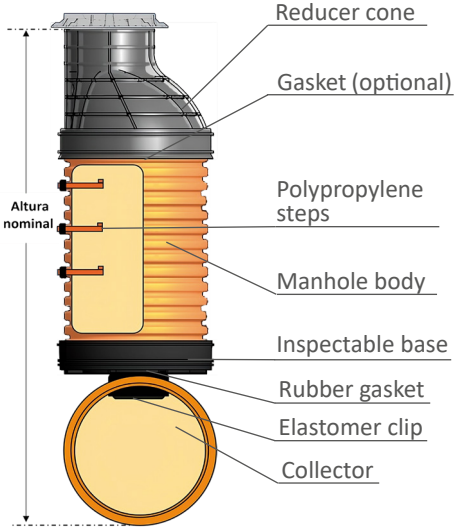


Bimetal saw ≥ 150 mm

2) MANHOLE ELEMENTS AND DIMENSIONS.

Ø MANHOLE	Ø COLLECTOR	Ø INSPECTION BASE
1.000 / 1.200	800	400
	1.000	500
	1.200	600

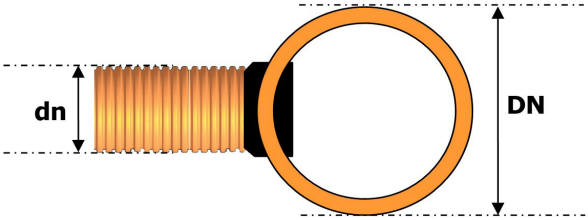




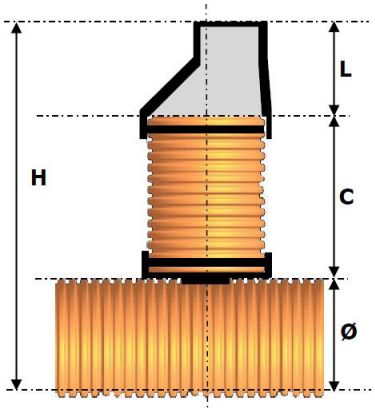
Note: If collector Ø < 800 use manhole with blank base

2.1) Elastomer clip dimensions:

DN	315	400	500	630	800	1.000	1.200
dn	160-200	160-200	160-315	160-315	160-400	160-630	160-630



3. INSTALLATION. PREPARATION OUTSIDE TRENCH.

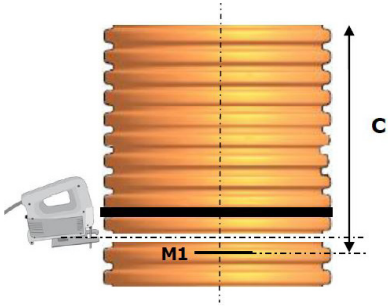


H: Total manhole height, to water film.

C: Calculate height of main body.

$$C = H - L - Ø$$

DN MANHOLE	L (cm)
1.000	70
1.200	70

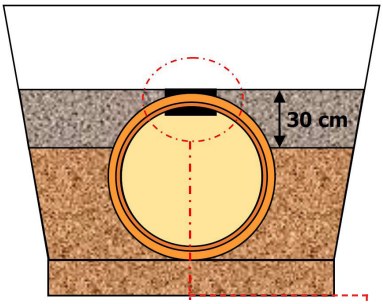


1) Mark the necessary length on the body (M1).
2) Cut the excess corrugations from the bottom, including the one bearing the mark made (M1).
3) Fit the watertight gasket in the last trough.

4) INSTALLATION OF MANHOLE IN TRENCH.

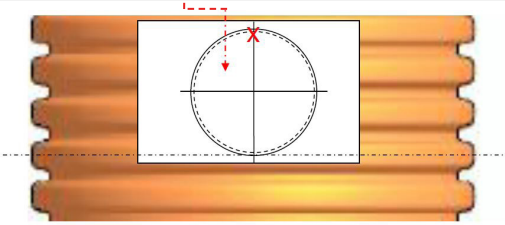
4.1) Preparation of the base:

Installing the manhole elements and the collector can take place in a single process with the following procedure:



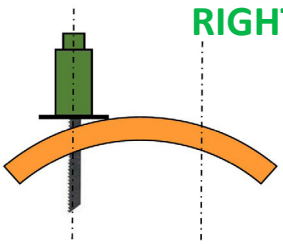
1) Install the collector.
2) Fill with compacted gravel or sand up to 30 cm from the soffit.
3) Fit elastomer clip as in section 4.2.
4) Execute a concrete floor 30 cm thick to be level with the clip.

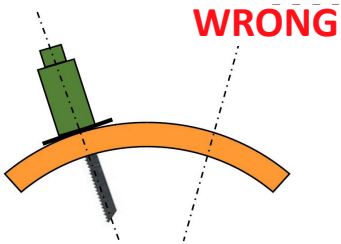
4.2) Drilling and fitting the clip:

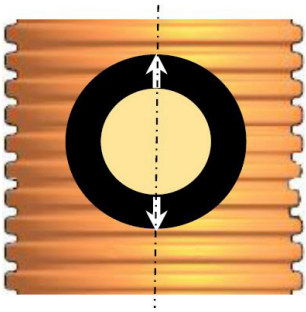


1) Fix the sticker at the top of the collector, centred, so that it rests on the crests above and below.
2) Drill with the Ø10 mm bit at X to introduce the jigsaw.
3) Cut with the jigsaw, following the dashed line. to introduce the jigsaw.

Jigsaw perpendicularity



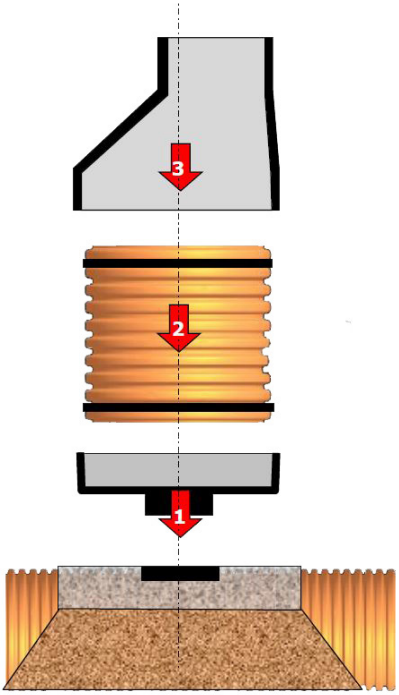


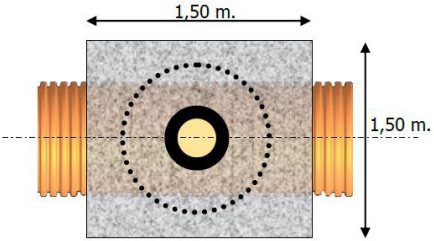


4) Smooth the edge of the hole with a file.
5) Fit the clip with the arrows pointing along the collector.

4.3) Installation of manhole in trench:

Once the concrete floor is in place and the manhole body prepared, we can install all the elements as follows:



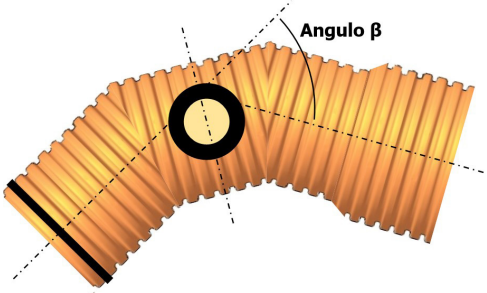


1) Lower the registrable base, lubricate the male part and introduce it into the clip. The base should be resting on the concrete floor.

2) Lubricate the interior wall of the base and the body bottom gasket to proceed to assemble both in their final positions.

3) Install the gasket, if watertightness is required, at the top of the body. Lubricate and insert the reducer cone.

The inspection base can also be fitted to special pieces for changing collector direction. The clip should be situated centred upon the intermediate section.

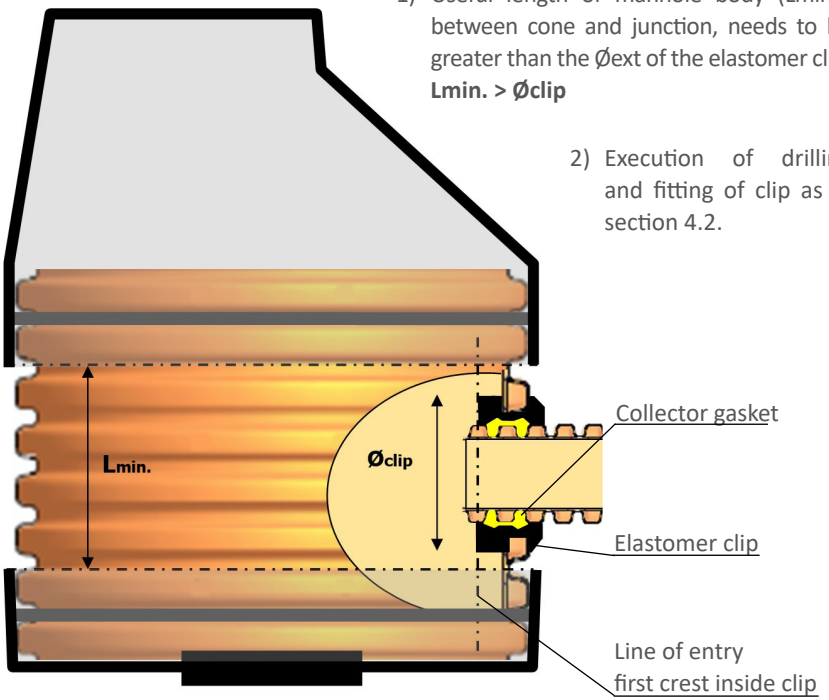


4.4) Making connections to the manhole body.

Lateral connections to the manhole body can be made, provided that the following 4 circumstances hold:

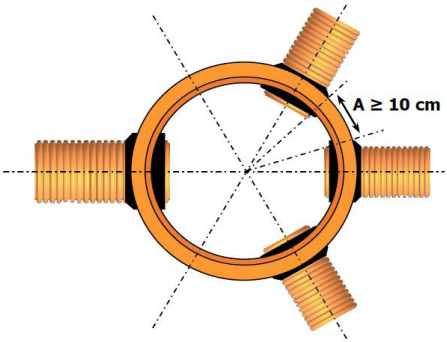
1) Useful length of manhole body (Lmin.), between cone and junction, needs to be greater than the Øext of the elastomer clip. **Lmin. > Øclip**

2) Execution of drilling and fitting of clip as in section 4.2.



3) The connection must reach the manhole wall perpendicularly and be concentric with it.

4) The minimum separation (A) between nearby connector clips should not be less than 10 cm.



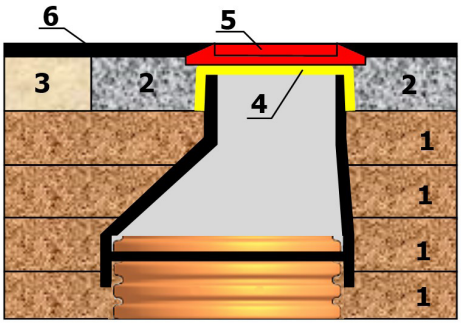
4.5) Filling and compacting the trench:

- Fill the trench around the manhole with granular or selected material in layers of 20 cm compacted to 95% PN. It can also be filled with loose 8/12 gravel.

- Use light compacting equipment and avoid direct contact with the manhole elements. For instance: trays, treading, hand rollers.

4.6) Crown and top finish:

A load distribution slab should be fitted on top of the manhole to prevent the vertical transmission of traffic loads. The cone collar can be cut to match the manhole height.



1) Filling compacted to 95% PN.
2) Concrete slab.
3) Base course.
4) Separator between cone and concrete (porexpan, geotextile...).
5) Cast rim and cover.
6) Surface course.

DN MANHOLE	Thickness (cm)	Slab selection (m)	
		WITH TRAFFIC	WITHOUT TRAFFIC
1.000	20	1,70 X 1,70	1,50 X 1,50
1.200	20	2,00 X 2,00	1,80 X 1,80

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MOLECOR
Ctra. M-206 Torrejón-Loeches Km 3.1 - 28890 Loeches, Madrid, Spain
T: + 34 949 801 459 | F: + 34 949 297 409

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SANECOR AR EVAC+ adequa TOM ECO FITTOM

T. + 34 949 801 459
F. + 34 949 297 409
T. + 35 1 913 739 977

T. + 34 911 337 090

sac@molecor.com www.molecor.com info@molecor.com