

SANECOR

Installation instructions for SANECOR® manholes



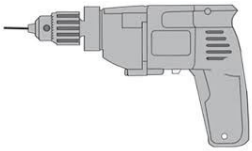



Manholes with watertight blank base

(for collectors up to DN 630)

MOLECOR
Smart water

1) TOOLS NECESSARY.



Drill



Jigsaw



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



Bit Ø 10 mm



Bimetal saw ≥ 150 mm

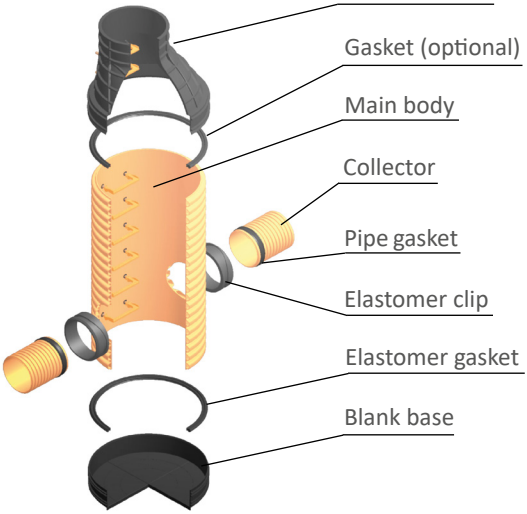
2) MANHOLE ELEMENTS AND DIMENSIONS.

Ø MANHOLE (mm)	600	800	1.000	1.200
Ø COLLECTOR (mm)	160 a 315	160 a 400	160 a 630	160 a 630

Ø CONE	H (mm)
800	650
1.000	900
1.200	900

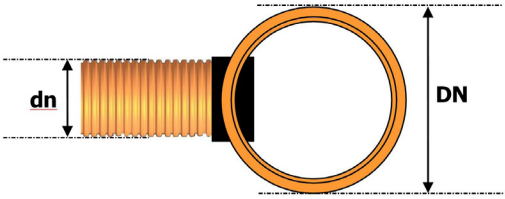
Ø BODY AND GASKET
600 mm
800 mm
1.000 mm
1.200 mm

Ø BLANK BASE
600 mm
800 mm
1.000 mm
1.200 mm

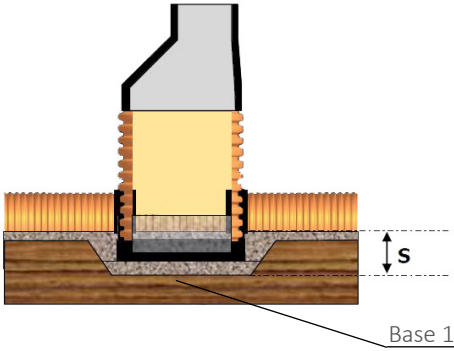


2.1) Elastomer clip dimensions:

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

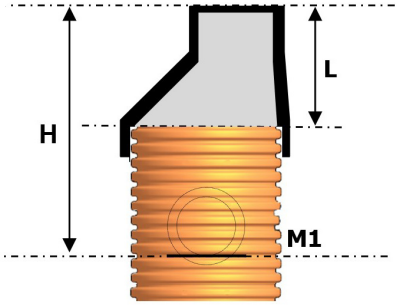


3) OVEREXCAVATION IN MANHOLE PIT.



DN MANHOLE	S (cm)
600	37
800	37
1.000	40
1.200	50

4. INSTALLATION. PREPARATION OUTSIDE TRENCH.

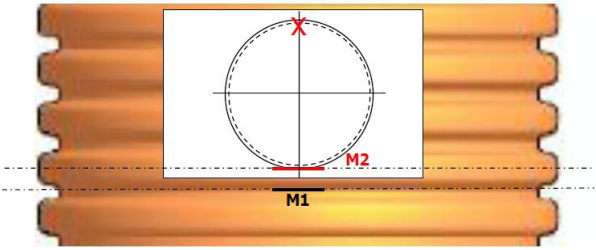


H: Total manhole height, to water film.

M1: Mark this length on body.

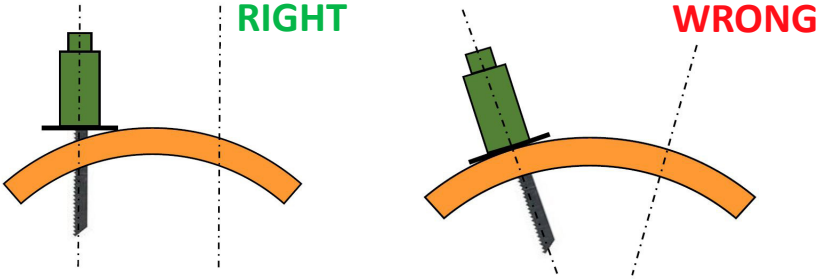
DN MANHOLE	L (cm)
800	45
1.000	70
1.200	70

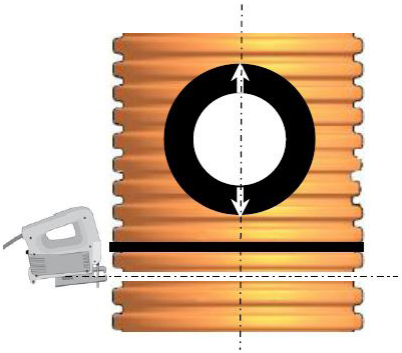
4.1) Drilling and fitting the clip:



1) **M2**: Make a new mark on the pipe in the centre of the top corrugation.
2) Fit the sticker for drilling. Ensure the mark M2 is at the bottom of the circle.
3) Drill at point **X** to introduce the jigsaw.
4) Cut along the dashed line. This can also be done with a crown for DN 160, 200 and 250 mm.

Jigsaw perpendicularity



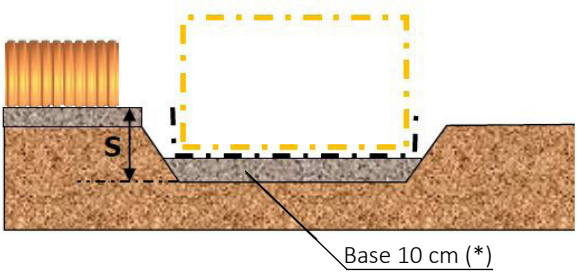


5) Smooth the edge of the hole with a file to refine.
6) Fit the clip, with the arrows along the length.
7) Several complete corrugations are needed below the clip (2 for 1000 and 1200, 3 for 800 and 4 for 600) for fitting the watertight base. The rest should be cut and eliminated.
8) Fit the watertight gasket into the last trough.

5) INSTALLATION OF MANHOLE IN TRENCH.

5.1) Preparation of the base:

Before installation, the base needs to be prepared as follows.



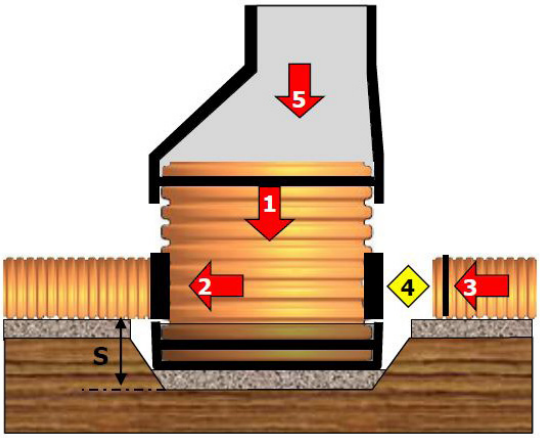
(*) Select material

Normal conditions: 8/12 gravel or concrete.

Special conditions (groundwater and unstable soils): Concrete.

5.2) Installation of manhole in trench:

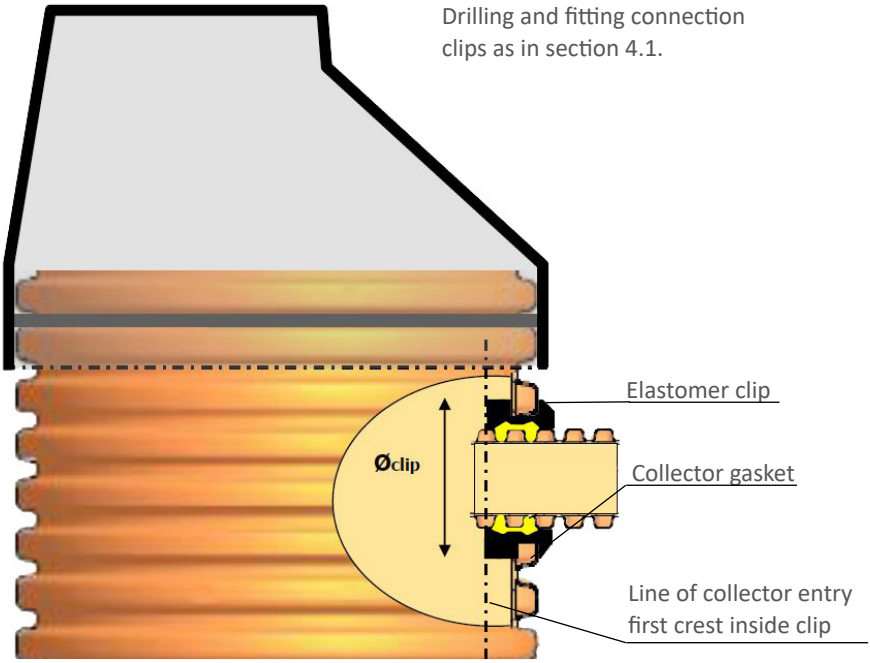
Fit the blank base to the bottom of the manhole body. To do this, lubricate the ends and drive home with a machine.



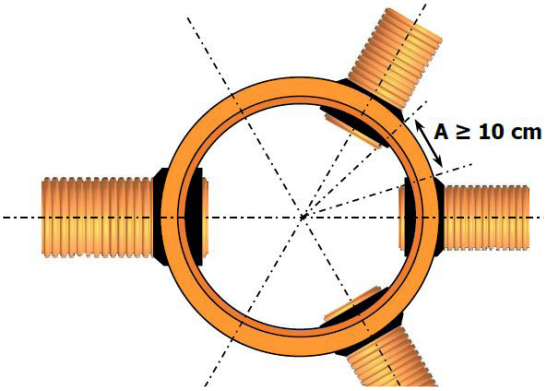
1) Lower the body and base into the hole. de zanja.
2) Move the manhole to connect the clip over the entry collector.
3) Insert the exit collector over the clip.
4) The clip/collector joint should have a gasket and be lubricated. Maximum angle 2º.
5) Fit gasket and lubricate (if watertightness is required) and then fit the reducer cone.

5.3) Making connections to the manhole body.

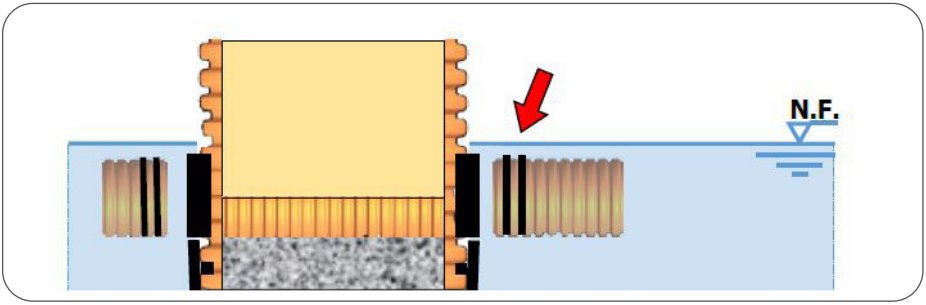
Lateral connections to the manhole body can be made, provided that the following conditions hold:



- The connection must reach the manhole wall perpendicularly and be concentric with it.
- The minimum separation (A) between nearby connector clips should not be less than 10 cm.



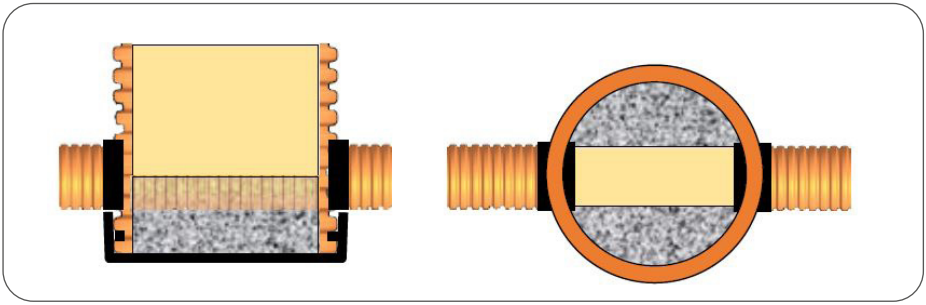
- In the case that there is intense GROUNDWATER LEVEL activity, when it is above the collector soffit, FOR SECURITY it is recommended to fit two gaskets on the collector end to be inserted inside the clip.



5.4) Interior finishing:

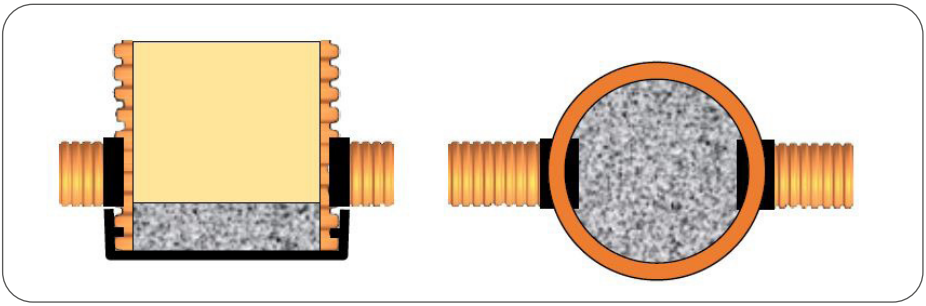
5.4.1) Bottom with interior half-pipe.

- Fit a half-pipe of the same length as the inner diameter of the manhole. Fill with concrete up to the half-pipe level.



5.4.2) Bottom level with water film.

- Fill with concrete up to the water film level.



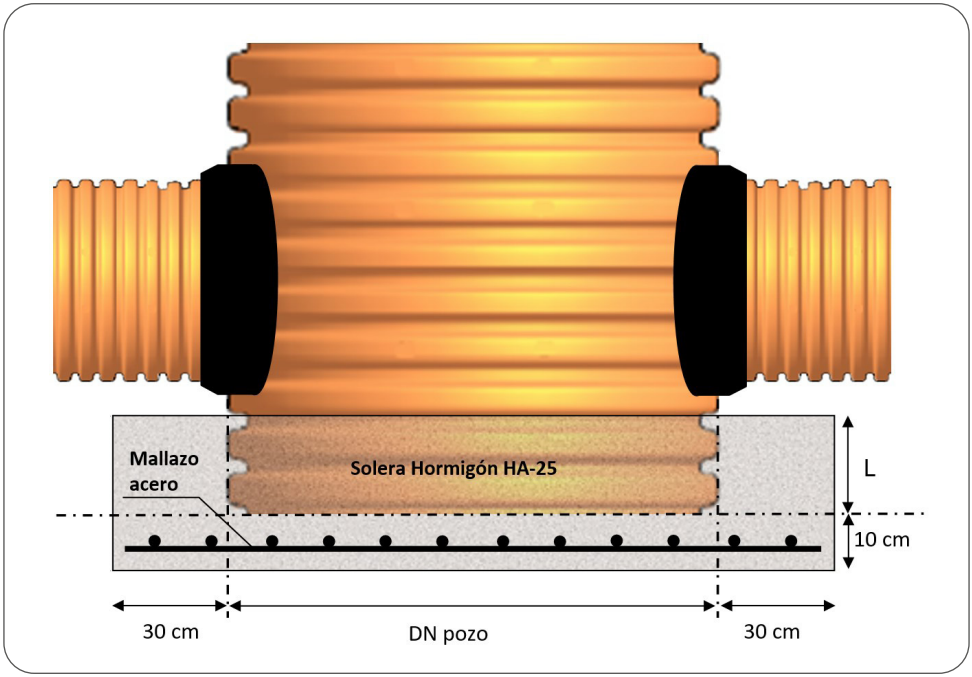
5.5) Manholes with concrete floor.

If the SANECOR® manhole does not have a watertight base, a concrete floor should be executed as follows to make the bottom strong and waterproof.

- The floor should be executed in a single session, and the concrete should be poured and vibrated appropriately in accordance with EHE 2008 to prevent cavities that could compromise watertightness.

- The floor thickness is determined by the manhole diameter taking the table below into account:

DN MANHOLE	Floor thickness
600	10 cm + L (4 corrugations)
800	10 cm + L (3 corrugations)
1.000	10 cm + L (2 corrugations)
1.200	10 cm + L (2 corrugations)



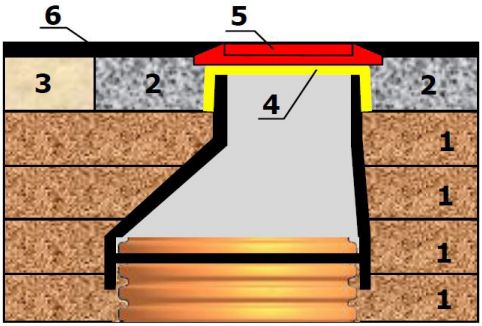
5.5) Filling and compacting the trench:

- 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 compaction equipment and avoid direct contact with manhole elements. E.g., trays, treading, hand rollers.

5.6) 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) Fill 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
600	20	1,20 X 1,20	1,00 X 1,00
800	20	1,40 X 1,40	1,20 X 1,20
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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Smart water

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SANECOR

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AENOR GESTIÓN DE LA CALIDAD ISO 9001 ER-0440/1996

AENOR GESTIÓN AMBIENTAL ISO 14001 GA-2001/0255

IQNET RECOGNIZED CERTIFICATION

AENOR TUBOS PLÁSTICOS 001/007322 UNE-EN 13476-1 UNE-EN 13476-3

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