



Modular inspection
chamber system for
sewage networks



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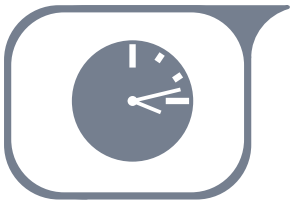
Jimten “Sistema Colector” is a modular system formed by PVC manufactured components which allow the installation of sewage networks of grey, black or stormwater networks.



Sistema Colector

01. System advantages

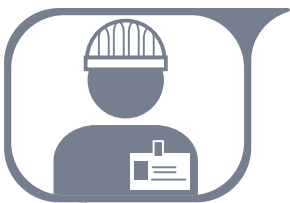
Final costs reduction



Reduction in time of installation due to easiness and quickness of assembly.



Low specific weight which enables an easier handling, transport and installation.



Traditional conflicts when tiled inspection chambers had to be build by different professionals (workmen, plumbers) are now prevented.

Its simple installation removes the necessity of skilled manpower. Maintenance requirements are now lower than those required by tiled inspection chambers.

Perfect water tightness



Excellent water tightness on all its connections, since pipes are installed onto the inspection chamber inlets/outlets using solvent cement (chemical cold welding) or NBR joints highly resistant to chemical elements.

It perfectly adapts to all land movements absorbing them, reducing all kind of cracks produced by seismic movements, expansive clays, plaster o differential terrain settlements



Root penetration into the networks is avoided, reducing problems produced by the reduction of the effective pipe sections and breakage of pipe networks.

Infiltration of underground waters or high ground water levels, inside the collector network.

Pollution of underground waters and aquifers is avoided, in many cases, it is produced by leakages from sewage networks to the subsoil, causing filtration of polluting residues.

Long term operation reliability



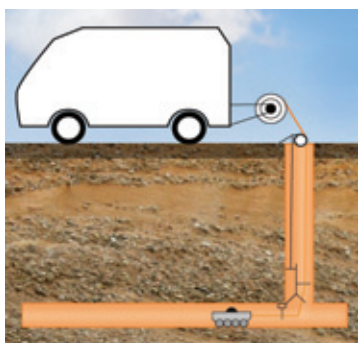
External body of components fully injection moulded, without solvent unions or manipulated parts. The same resistance is maintained through the piece.

PVC has a great resistance to chemicals in the black and storm water networks, as well as to most salts and acids; most of its chemical and physical properties are maintained through time and its aging is reduced.

It possesses great resistance to the action of rodents and microorganisms.

It possesses an excellent tensile resistance and a low elasticity module, absorbing important deformations without producing breakage.

Unalterable to underground telluric currents due to its low electrical conductivity.

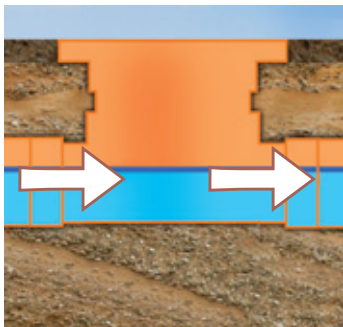


It allows easily maintenance from the surface, using mechanical cleaning equipments with pressure water, as well as its inspection using mobile cameras. Access of workers is prevented as a security measure, since they are normally reduced spaces with unhealthy gases.

Sistema Colector

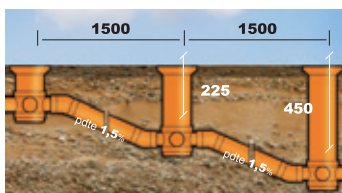
01. System advantages

Optimal hydraulic behavior



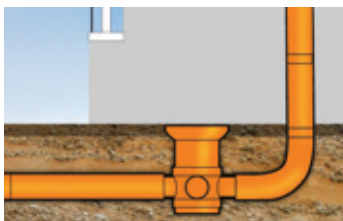
The smooth internal surfaces produce a reduced loss of charge, the incrustation in the internal walls is consequently reduced, therefore effective sections are reduced.

Continuous drainage system using interior channeled inspection chambers which direct fluid, prevent water high changes, deposits of waste, which in many cases reduce effective areas, are prevented.



Real drainage slopes. The designed slopes can be effectively installed, since a traditional pipe can be used to install a raiser to be cut at the desired height. Modular height fixed raisers can be avoided.

Installation tips

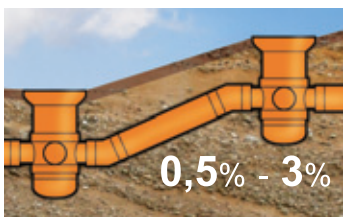


“Sistema Colector” Jimten inspection chambers should be installed close to downpipe ending, branches to collector pipes, and in general, on points in the sewage network where obstructions must not occur.



Pipes joining “Sistema Colector” inspection chambers which follow straight paths should never overpass 15 m in length between registers.

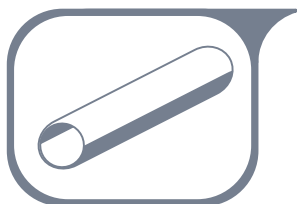
When “Sistema Colector” is buried in garden areas at depths less than 0.75 meters or less than 1.20 meters for areas with traffic. Horizontal pipes should be protected with concrete reinforcement overtopping the horizontal pipes by 5 cm.



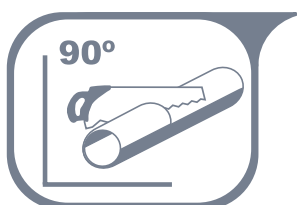
“Sistema Colector” system must be installed under the fresh water network and should be reinforced in heavy traffic areas.

It is recommended that a minimum slope between 0.5% - 3% is installed with the “Sistema Colector” inspection chamber system. CTE (Spanish Building Regulation Code) recommends a 2% slope for buried sewage networks.

Installation procedures.



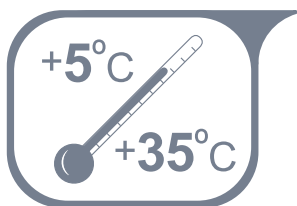
- Check that pipes and fittings comply with local regulations and do not present signs of impacts or cuts.



- Certified welding elements (solvent cement) according to local regulations and in perfect conditions (expiration date, viscosity, presence of strange bodies). It is recommended the use of Jimten universal adhesive.
- PVC pipe cuts, must be done perpendicularly to the pipe using saws or pipe cutters.



- Interior pipe deburring, as well as its chamfering, must be done using a reamer or a lime
- Any shallow dirtiness should be removed by degreasing the external part of the pipes.



- Temperature during the installation of pipes should be between +5°C and +35°C. Elements to be solvent cemented must be perfectly dry.



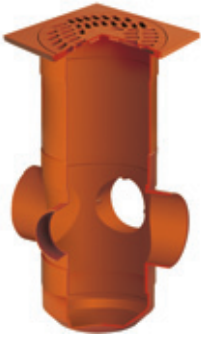
- When installing the products at low temperatures, pieces, once assembled, must be kept together at least for 20 to 30 seconds.
- Other manufacturer products (pipes and/or fittings) installation procedures must be also followed.

Sistema Colector

02. Combination between system components

Basic assemblies

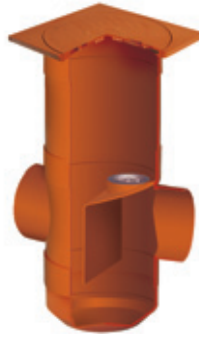
DECANTING INSPECTION
CHAMBER
S-226 / S-227



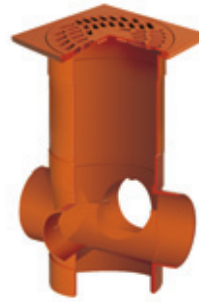
TRAPPED INSPECTION
CHAMBER
S-214 / S-215



IN LINE TRAPPED
INSPECTION CHAMBER
S-216 / S-224



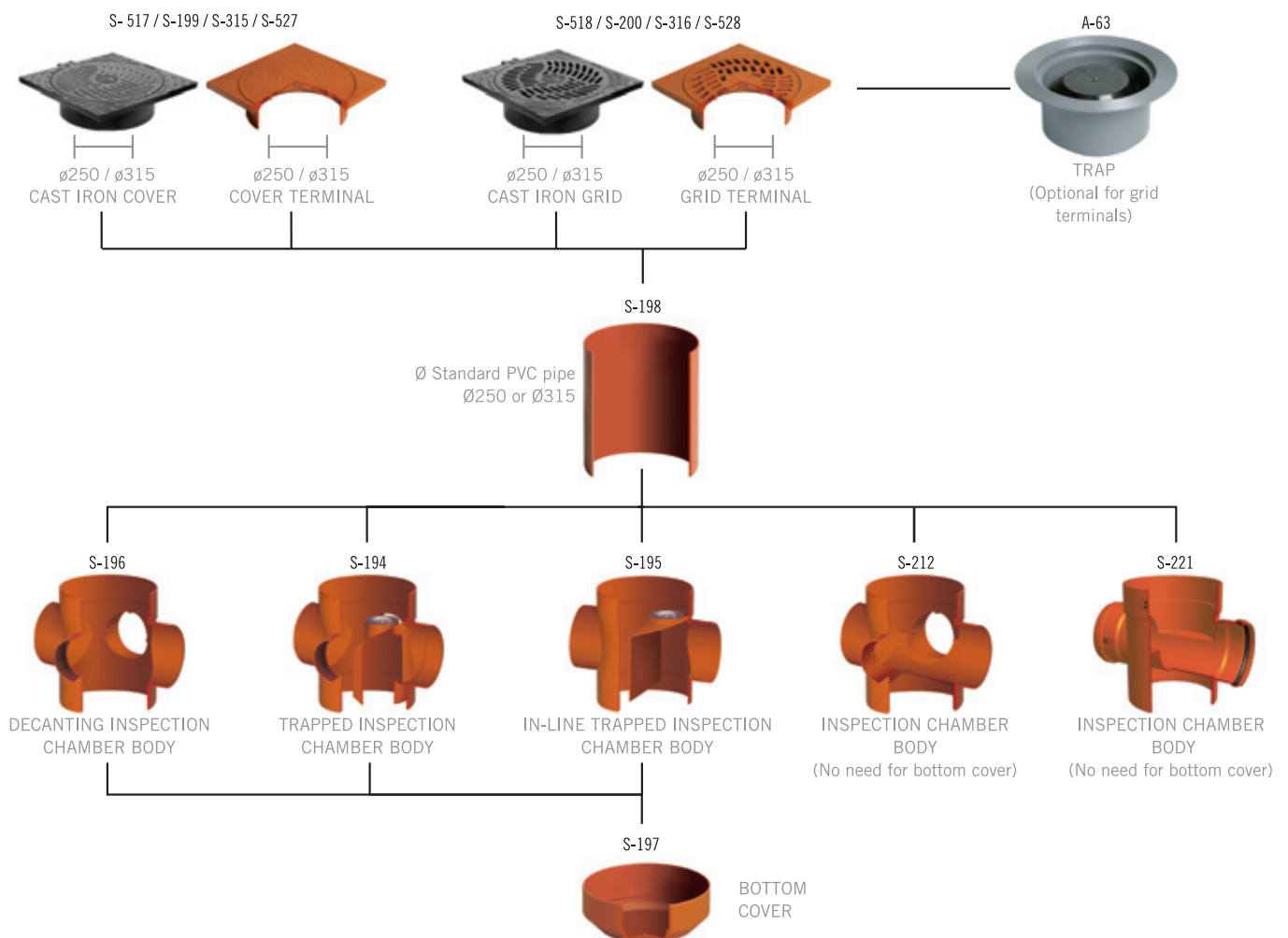
INSPECTION CHAMBER
S-217 / S-225



INSPECTION CHAMBER
S-510 / S-511



Previous figures can be obtained by combining the following elements from the Sistema Colector system



Basic assemblies.



INSPECTION CHAMBER WITH RAISER

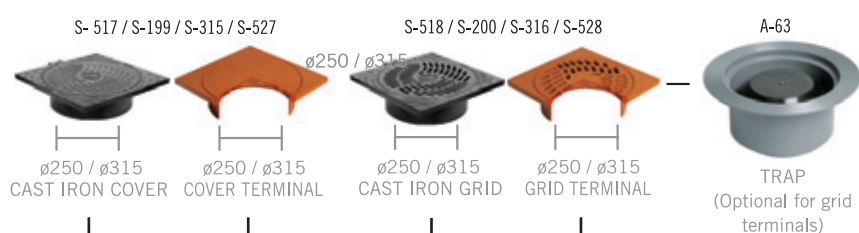


INSPECTION CHAMBER WITH RAISER



BIG DIAMETER INSPECTION CHAMBER WITH RAISER

Previous figures can be obtained by combining the following elements from the Sistema Colector system



PVC pipe
 ø315



Reducing joint ø400 / ø315

Tubo PVC
 ø400

S-431



INSPECTION CHAMBER BODY
 (No need for bottom cover)

S-432



INSPECTION CHAMBER BODY
 (No need for bottom cover)



Joint for cast iron cover



PVC pipe
 ø500



S-513



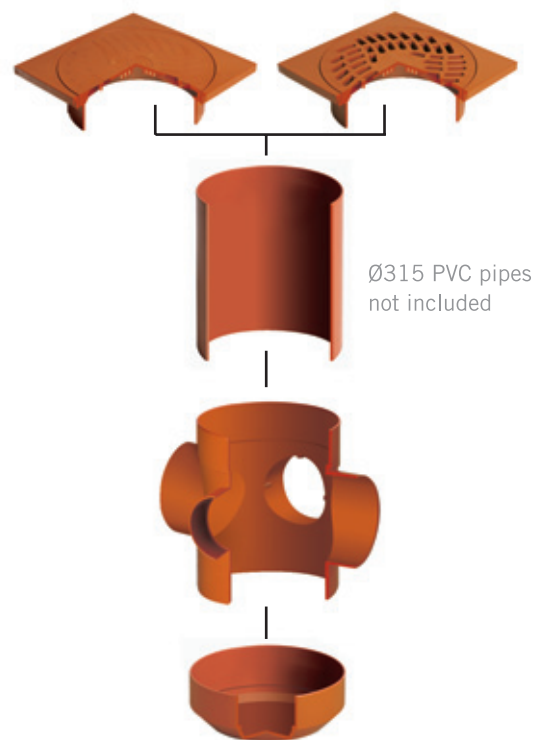
PE inspection chamber
 (No need for bottom cover)

Sistema Colector

03. Predefined sets

Decanting inspection chamber. With sandbox.

Inspection chambers with an internal deposit, this allows that water coming in through the inlets come down to the inspection chamber base. This fall produces deposit of elements in suspension onto the base (such as sand and mud)



S-226

With cover

Ref.	Height	Body size	Colour
27015	665m.	Ø 250	Tile
27031	665m.	Ø 315	Tile

S-227

With grid

Ref.	Height	Body size	Colour
27016	665m.	Ø 250	Tile
27032	665m.	Ø 315	Tile

Characteristics Ø 250:

- 2 Inlets Ø110, female.
- 2 Inlets Ø160, female.

Characteristics Ø 315:

- 2 Inlets Ø160, female.
- 2 Inlets Ø200, female.

S-226

With cover

Ref.	Height	Body size	Colour
27077	665m.	Ø 250	Tile
27078	665m.	Ø 315	Tile

S-227

With grid

Ref.	Height	Body size	Colour
27079	665m.	Ø 250	Tile
27080	665m.	Ø 315	Tile

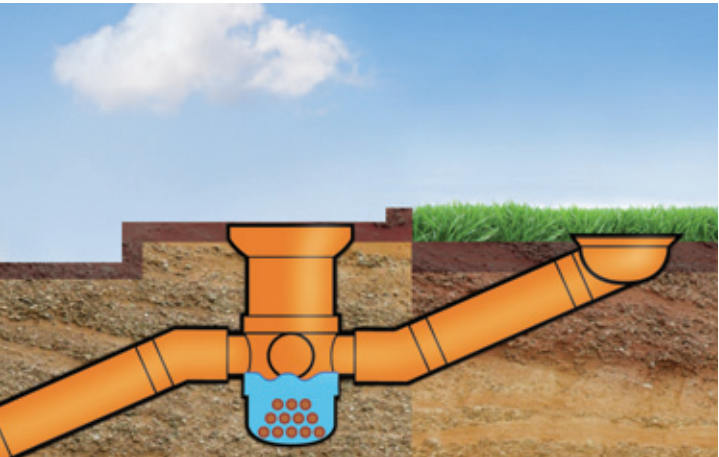
Characteristics Ø 250:

- 4 Inlets Ø160, female.

Characteristics Ø 315:

- 4 Inlets Ø200, female.

Specially adapted to be installed in areas where sands in suspension should be removed before waters enter into the sewage networks, reducing risks of clogging. This inspection chambers will require a periodical maintenance to clean and extract the residues which may enter into its base.



Inspection chamber

Inspection chambers which have a continuous base, free of prominence, this allows that the incoming water through its inlets passes directly to its outlets, avoiding the accumulation of mud inside the inspection chamber.

Building regulations recommend the installation of inspection chambers at the base of each down pipe before its connection to the horizontal pipes.



S-217

With cover

Ref.	Height	Body size	Colour
27012	500m.	Ø 250	Tile
27033	500m.	Ø 315	Tile

S-225

With grid

Ref.	Height	Body size	Colour
27014	500m.	Ø 250	Tile
27034	500m.	Ø 315	Tile

Characteristics Ø 250:

- 2 Inlets Ø110, female
- 2 Inlets Ø160, female.

Characteristics Ø 315:

- 2 Inlets Ø160, female.
- 2 Inlets Ø200, female.

S-217

With cover

Ref.	Height	Body size	Colour
27073	500m.	Ø 250	Tile
27074	500m.	Ø 315	Tile

S-225

With grid

Ref.	Height	Body size	Colour
27075	500m.	Ø 250	Tile
27076	500m.	Ø 315	Tile

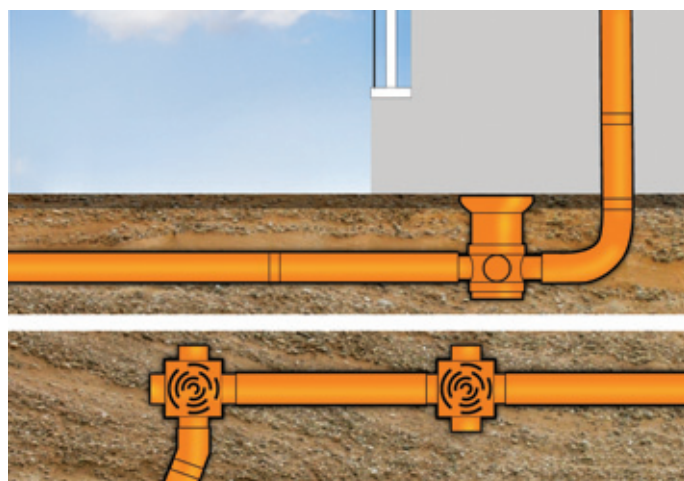
Characteristics Ø 250:

- 4 Inlets Ø160, female.

Characteristics Ø 315:

- 4 Inlets Ø200, female.

It is recommended that Inspection chambers should be installed before every change of direction and/or change of diameters of the horizontal networks, there should not exist straight sections over 15 m in length without registers using this type of inspection chambers.

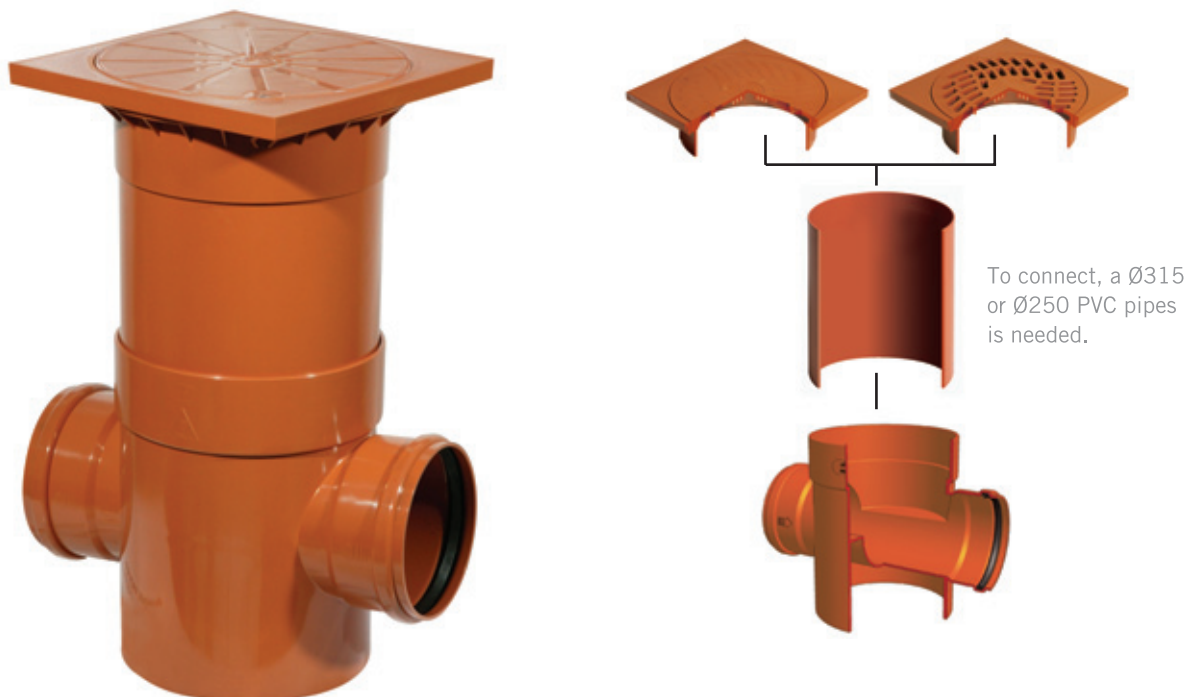


Sistema Colector

03. Predefined sets

Inspection chamber

- Inspection chambers which have a continuous base, free of prominence, this allows that the incoming water through its inlets passes directly to its outlets, avoiding the accumulation of mud inside the inspection chamber.
- Building regulations recommend the installation of inspection chambers at the base of each down pipe before its connection to the horizontal pipes.
- Inlets and outlets use an NBR joint system which offer a proved reliability and provide an improved installation easiness.



It is recommended that Inspection chambers are installed before every change of direction and/or change of diameters of the horizontal networks, there should not exist straight sections over 15 m in length without registers using this type of inspection chambers.

S-510

With cover

Ref.	Height	Body size	Colour
27069	500m.	Ø 250	Teja
27070	500m.	Ø 315	Teja

S-511

With grid

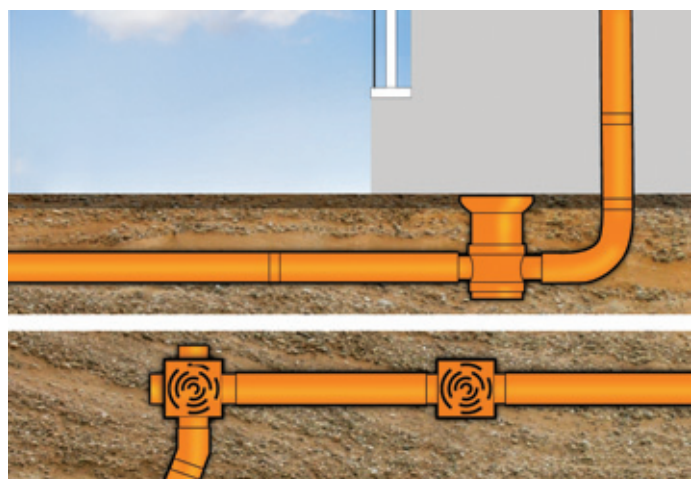
Ref.	Height	Body size	Colour
27071	500m.	Ø 250	Teja
27072	500m.	Ø 315	Teja

Characteristics Ø 250:

- 1 Inlet Ø160, female.
- 1 Outlet Ø160, female..

Characteristics Ø 315:

- 1 Inlet Ø200, female.
- 1 Outlet Ø200, female.



■ Inspection chamber (big diameter)

Building regulations recommend the installation of inspection chambers at the base of each down pipe before its connection to the horizontal pipes.

Inlets and outlets use NBR joint system which offer a proved reliability and provide an improved installation easiness.



It is recommended that Inspection chambers are installed before every change of direction and/or change of diameters of the horizontal networks, there should not exist straight sections over 15 m in length without registers using this type of inspection chambers.

Characteristics Ø 500:

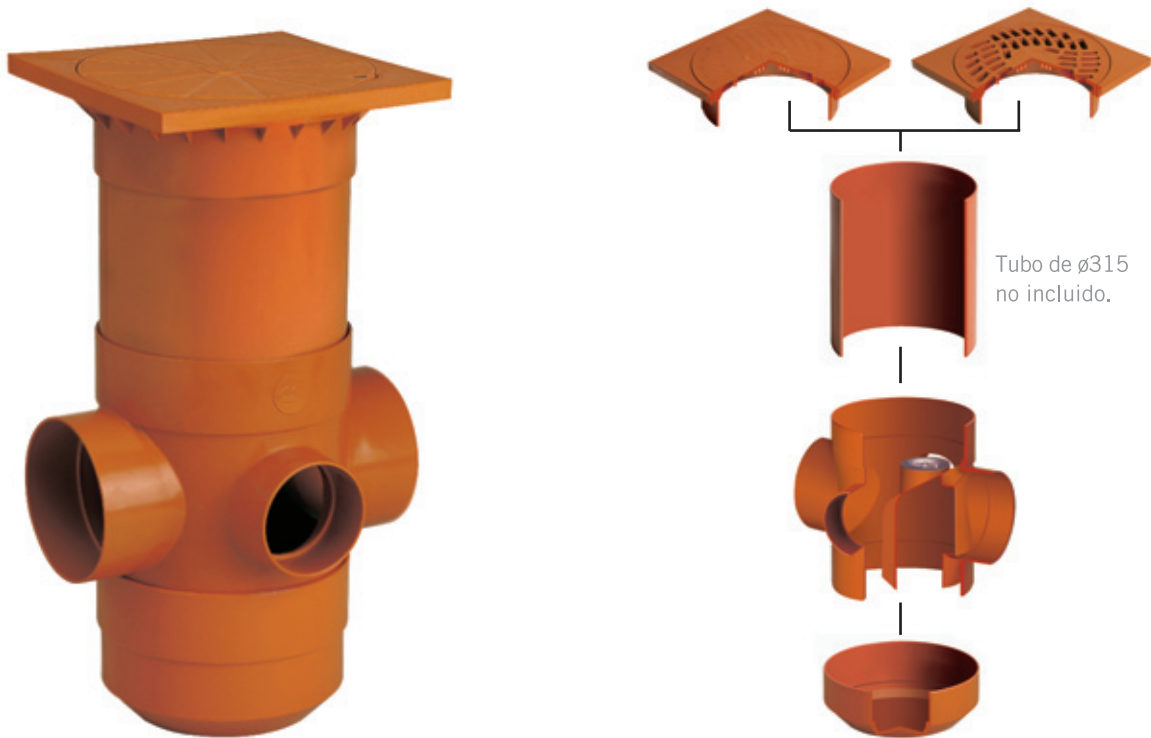
- 2 Inlets Ø315, female.
 - 2 Inlets Ø250, female.
 - PE manufactured by roto-molding.
 - Connections using NBR joints.
-
- Inspection chambers with register equal or over Ø400 mm.
 - Its internal design with channeled shape, creates a continuous line free of prominences which enable an easier water flow without accumulation of waste inside the inspection chamber, diminishing the maintenance requirements.
 - Cast iron covers and grids allow its installation in areas with vehicle transit.

Sistema Colector

03. Predefined sets

Trapped inspection chamber

This inspection chambers incorporate an interior trap onto the outlet, it can be registered. It is recommended that trapped inspection chambers are installed before the connection to the public sewage networks, between the last private owned inspection chamber and the public network. This inspection chambers prevent bad odors coming from the general line entering inside the building.



Regular maintenance is recommended to this type of inspection chambers to assure no waste accumulated inside occasion a bad product operation. This inspection chambers are not recommended to be installed closed to down pipes.

S-214	Ref.	Height	Body size	Colour
	27009	665m.	ø 250	Teja
	27029	665m.	ø 315	Teja

With cover

S-215	Ref.	Height	Body size	Colour
	27010	665m.	ø 250	Teja
	27030	665m.	ø 315	Teja

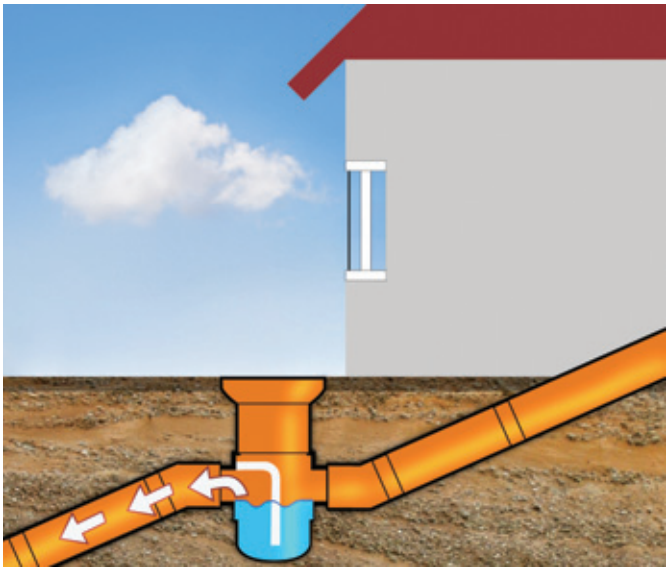
With grid

Characteristics ø 250:

- 2 Inlets Ø110, female.
- 1 Inlets Ø160, female.
- 1 outlet Ø160, female.
- Trap with register.

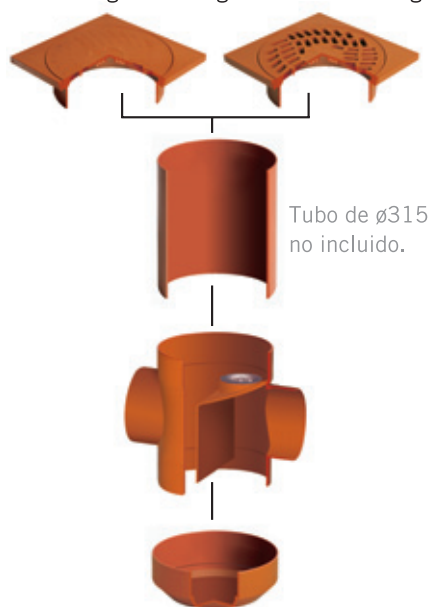
Characteristics ø 315:

- 2 Inlets Ø160, female.
- 1 Inlets Ø200, female.
- 1 outlet Ø200, female.
- Trap with register.



In line trapped inspection chamber.

This inspection chambers incorporate an interior trap onto the outlet, this trap can be registered. It is recommended that trapped inspection chambers are installed before the connection to the public sewage networks, between the last private owned inspection chamber and the public network. This inspection chambers prevent bad odors coming from the general line entering inside the building.



S-216

With cover

Ref.	Altura	Medida cuerpo	Color
27011	665m.	ø 250	Teja

S-224

With grid

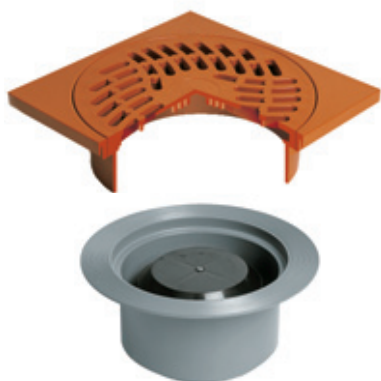
Ref.	Altura	Medida cuerpo	Color
27013	665m.	ø 250	Teja

Characteristics:

- 1 Inlets Ø160, female.
- 1 outlet Ø160, female.
- Trap with register.

Regular maintenance is recommended to this type of inspection chambers to assure no waste accumulated inside occasion a bad product operation. This inspection chambers are not recommended to be installed closed to down pipes.

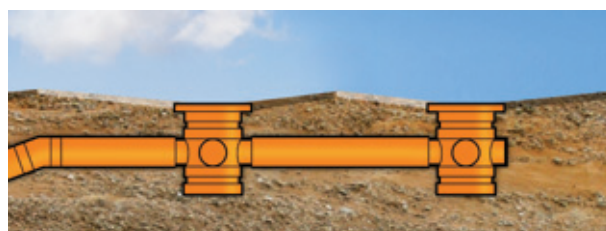
Inspection chambers with floor gully (grid and floor gully kit)



A-63

Ref.	Body size
27023	ø 250
27036	ø 315

It should be installed when sewage network uses mixed (dark and storm water) flows, when its necessary to collect rainwater in areas such as parking lots, end of slopes and open terraces so as to avoid odors from the sewage network coming out from the grids.



Sistema Colector

03. Predefined sets

Assembly instructions for "Sistema Colector" inspection chambers.



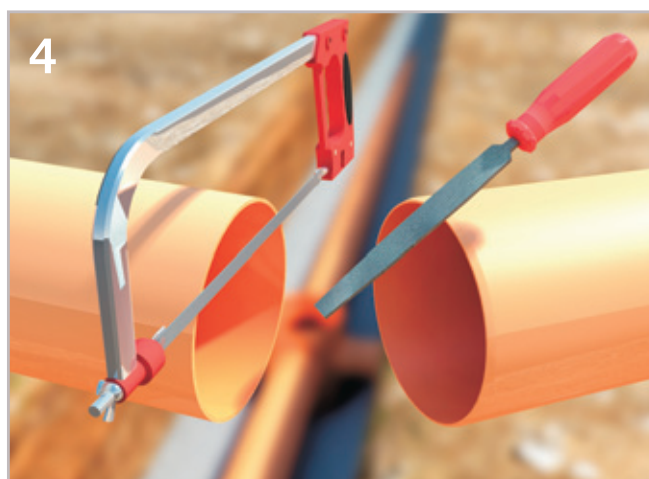
1 Plan a cut off trench deep enough so the "Sistema Colector" inspection chamber and a concrete base of approximately 10 cm high can be fit in.



2 Pre-define the installation pre-installing the product and checking the correct assembly of all its elements.



3 Prepare a concrete base of, at least, 10 cm high, which is extended 5 cm aside the inspection chamber body.



4 Cut the PVC pipe with a saw or pipe cutter perpendicularly to its axis. Trim the internal part of the pipe and chamfer the external part of the pipe (with a lime or reamer).



5a Check that pipes and fittings comply with norms and that they do not present external signs of impacts or cracks.



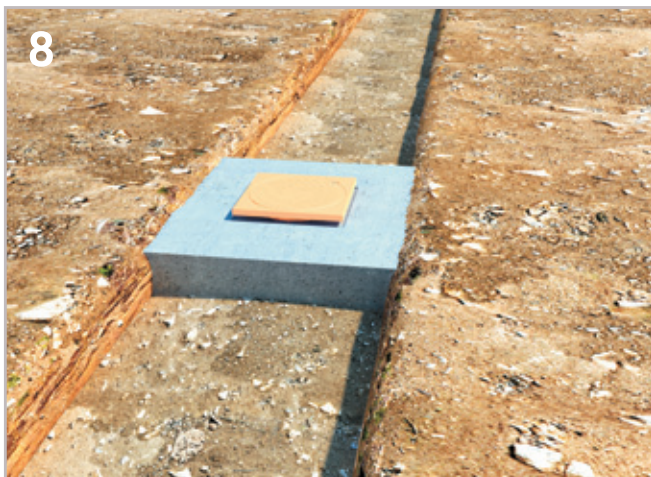
5b Use certified adhesives according to their specific norms and in perfect condition (expire date, viscosity, absence of foreign components).



6 Cut the vertical connecting pipe (Ø250 or Ø315 mm) considering the general installation slope and gluing it to the top inspection chamber inlet.



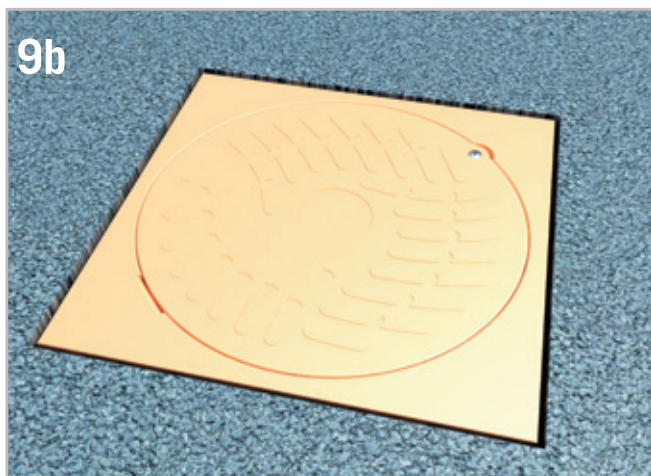
7 Fill in the trench and compact it over the pipe considering the pipe manufacturer instructions. Compact the area surrounding the vertical pipe (raiser). Consider a 12 cm area which will later be filled with concrete to support the grid or cover terminal.



8 Prepare a concrete base of 12 cm which will be used as the cover or grid terminal support.



9a When installing with concrete floor finishing, a minimum distance of 1 to 3 mm surrounding the cover top terminal must be left to allow dilatation.



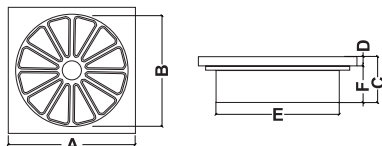
9b When installing with asphalt, it must have a height surpassing 3 to 5 mm over the terminal.

Sistema Colector

04. Standalone sets

PVC grids or covers

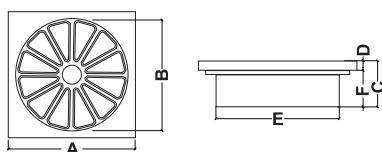
S-199 Ø250 Cover terminal



Ref.	Colour	Ref.	Colour
27006	Tile	27039	Light grey
27017	Grey	27052	Black

A	B	C	D	E	F
320	292	95	20	250	70
				female	

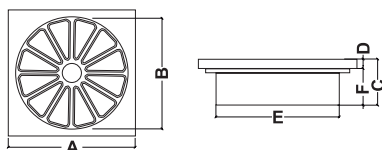
S-200 Ø250 Grid terminal



Ref.	Colour	Ref.	Colour
27007	Tile	27043	Light grey
27018	Grey		

A	B	C	D	E	F
320	292	95	20	250	70
				female	

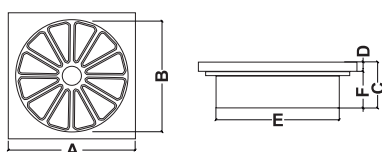
S-315 Ø315 Cover terminal



Ref.	Colour	Ref.	Colour
27019	Tile	27037	Light grey
27020	Grey	27051	Black

A	B	C	D	E	F
400	365	114,5	25	315	82
				female	

S-316 Ø315 Grid terminal

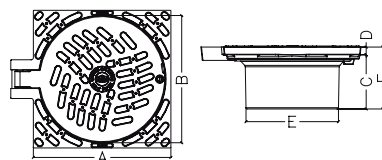


Ref.	Colour	Ref.	Colour
27021	Tile	27041	Light grey
27022	Grey		

A	B	C	D	E	F
400	365	114,5	25	315	82
				female	

Cast iron grids or covers

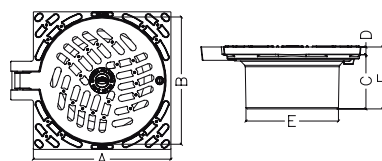
S-517 Ø250 Cover terminal



A	ØB	C	D	E	F
350	291	116	28	215	144

Ref.	Colour	Size	Class
27088	Black Cast Iron	Ø250	B125

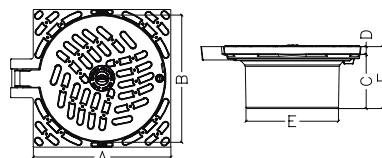
S-518 Ø250 Grid terminal



A	ØB	C	D	E	F
350	291	116	28	215	144

Ref.	Colour	Size	Class
27090	Black Cast Iron	Ø250	B125

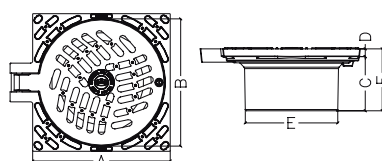
S-527 Ø315 Cover terminal



A	ØB	C	D	E	F
400	365	116	28	275	144

Ref.	Colour	Size	Class
27089	Black Cast Iron	Ø315	B125

S-528 Ø315 Grid terminal



A	ØB	C	D	E	F
400	365	116	28	275	144

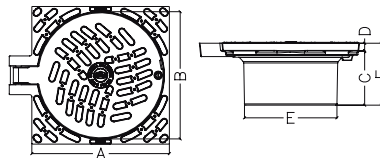
Ref.	Colour	Size	Class
27091	Black Cast Iron	Ø315	B125

Sistema Colector

04. Standalone sets

Terminales tapa o rejilla de fundición

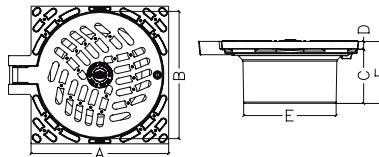
S-514 Ø500 Cover terminal



A	ØB	C	D	E	F
590	520	120	30	440	160
590	520	120	30	440	160

Ref.	Colour	Size	Class
27085	Black Cast Iron	Ø500	B125
27084	Black Cast Iron	Ø500	C250

S-515 Ø500 Grid terminal



A	ØB	C	D	E	F
590	520	120	30	440	160
590	520	120	30	440	160

Ref.	Colour	Size	Class
27087	Black Cast Iron	Ø500	B125
27086	Black Cast Iron	Ø500	C250

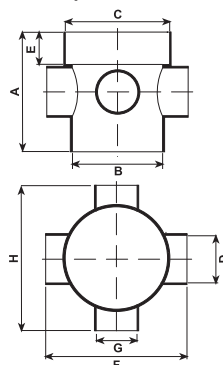
Class

B-125 Sidewalks, footpaths, pedestrian areas and similar surfaces, parking areas and several stories' parking for cars (control charge load 125 kn)

C-250 For covers, grids installed over waysides and ditches areas on streets, this area, when measured from sidewalk kerb is extended for a maximum 0.5 m inside the road pavement and 0.2 m onto the sidewalk (control charge load 250 kn)

Inspection chamber bodies.

S-194 Trapped inspection chamber

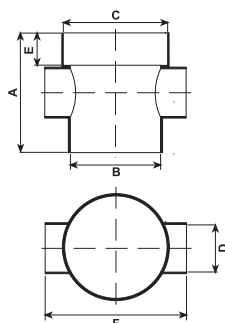


Ref.	Medida cuerpo	Colour
27001	Ø 250	Tile
27025	Ø 315	Tile

A	B	C	D	E	F	G	H
308	250	250	160	70	365	110	345
	male	female	female			female	
393	315	315	200	82	460	160	430
	male	female	female			female	

Inspection chamber bodies

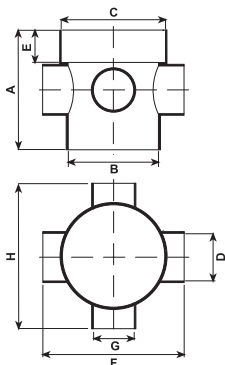
S-195 In-line inspection chamber



Ref.	Body size	Colour
27002	Ø 250	Tile

A	B	C	D	E	F
316	250 male	250 female	160 female	70	370

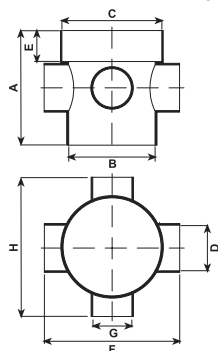
S-196 Inspection chamber



Ref.	Body size	Colour
27003	Ø 250	Tile
27047	Ø 250	Tile
27026	Ø 315	Tile
27048	Ø 315	Tile

A	B	C	D	E	F	G	H
308	250 male	250 female	160 female	70	366	110 female	350
328	250 male	250 female	160 female	70	370	160 female	373
393	315 male	315 female	200 female	82	460	160 female	430
393	315 male	315 female	200 female	82	460	200 female	450

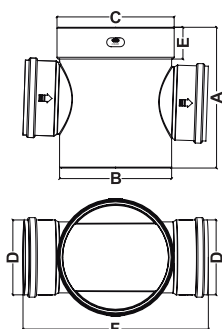
S-212 Inspection chamber (with channeled base)



Ref.	Body size	Colour
27008	Ø 250	Tile
27049	Ø 250	Tile
27027	Ø 315	Tile
27050	Ø 315	Tile

A	B	C	D	E	F	G	H
308	250 male	250 female	160 female	70	366	110 female	350
328	250 male	250 female	160 female	70	375	160 female	370
401	315 male	315 female	200 female	82	460	160 female	430
401	315 male	315 female	200 female	82	460	200 female	450

S-221 Inspection chamber with joint horizontal inlets



Ref.	Body size	Colour
27067	Ø 250	Tile
27068	Ø 315	Tile

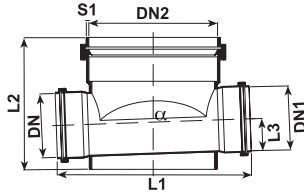
A	Ø B	Ø C	Ø D	E	F
330	250 male	250 female	160 female	70	415
395	315 male	315 female	200 female	83	518

Sistema Colector

04. Standalone sets

Inspection chamber bodies.

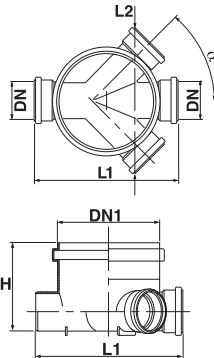
S-431 Inspection chamber with 2 inlets.



Ref.	Body size	Colour
32201	ø 400	Grey

DN	DN1	DN2	S1	L1	L2	L3	α
200	200	400	7	610	412	148	2°

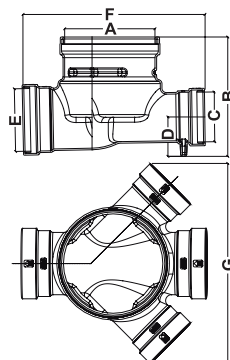
S-432 Inspection chamber with 4 inlets.



Ref.	Body size	Colour
32236	ø 400	Tile

DN	DN1	H	L1	L2	α
200	400	620	670	600	45°

S-513 PE Inspection chamber with 4 inlets.



Ref.	Body size	Colour
27083	ø 500	Black

Ø A	B	Ø C	D	Ø E	F	G
500 female	590	315 female	250	315 female	930	990

Rubber ring



Ref.	Size
32111	Ø 160
32112	Ø 200
32113	Ø 250
32114	Ø 315
32286	Ø 500

Spare part joints for inspection chambers.
Material: NBR

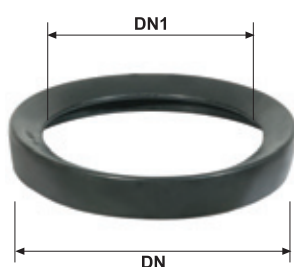
Reduced rubber ring



Ref.	Size	DN	DN1
32202	Ø 400 - 315	315	400

It allows to reduce the top register access of a Ø400 inspection chamber to use a Ø315 mm grid or cover.
Material: NBR

Cast iron covers rubber ring



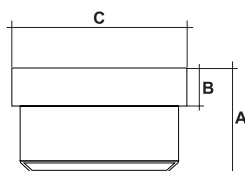
Ref.	Size	DN	DN1
32287	Ø 500	440	500

To be used with cast iron covers to connect to Ø500 mm male PVC pipes.
Material: NBR

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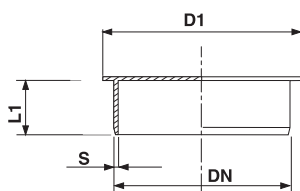
05. Special accessories

S-197 Base cover



Ref.	Size	Colour	A	B	C
27004	Ø 250	Tile	165	70	250 female
27028	Ø 315	Tile	120	80	315 female

Male cover cap



Ref.	Size	Colour	DN	D1	S	L1
32228	Ø 110	Tile	110	126	3.2	38
32050	Ø 160	Tile	160	180	4.0	49
32051	Ø 200	Tile	200	223	4.9	59

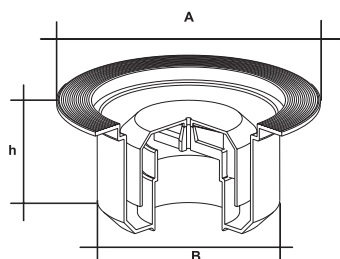
S-372 Adapter



Ref.	Body size	Colour
27035	Ø 315 M - Ø 400 F	Tile

It allows to use a Ø315 terminal with a Ø400 vertical register pipe

A-63 Floor gully kit (terminal grid not included)



Ref.	Size	Colour	H	ØA	ØB
27023	Ø 250	Grey	121	250	173
27036	Ø 315	Grey	185	318	187

Use: It allows to install a floor gully using a grid terminal S-200 or S-316.

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The screenshot displays the Jimten website interface. At the top left is the Jimten logo. A navigation menu includes links for HOME, MAPA WEB, CONTACTE, and TRABAJA CON NOSOTROS. A search bar labeled 'BUSCADOR' is located at the top right. Below the navigation bar, there are several promotional banners and product categories. On the left, a sidebar titled 'ZONA CLIENTES' contains links for EMPRESA, PRODUCTOS, ZONA PROYECTOS, ZONA INSTALADOR, FORMACIÓN, CERTIFICACIONES, NOTICIAS, and NUEVOS PRODUCTOS. The main content area features a large banner for 'CISTERNAS EMPOTRADAS' (Embedded Cisterns) with the text 'Sistemas empotrables para todo tipo de tabiques y paredes ligeras'. Below this, there are three smaller banners: 'NUEVA TARIFA JIMTEN 09' (New Jimten 09 Tariff), 'MANGUITO para inodoro' (Toilet Flange), and 'SIFÓN SECO para aire acondicionado' (Dry Siphon for Air Conditioning). At the bottom, there are logos for 'SISTEMA DE FILTRADO FILT-MASTER', 'TRITURADORES SANITARIOS CICLON', and 'interbath'. The footer contains copyright information: '© 2009 JIMTEN S.A. - Todos los derechos reservados. Por favor lee nuestros Acreditados - Política de Privacidad' and the text 'an Oallaxis company'.



Sistema Colector

Modular system, it enhances the installation of sewage grey and storm water networks



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