PRODUCT SPECIFICATION SHEET

Acaro PP SN 12

Solid wall pipe system according to DIN EN 1852

Application area:

Acaro PP SN 12 is a solid wall pipe system with a ring stiffness of SN 12 in the colours red brown and blue. With the help of its clear colour coding both the sewer and the rainwater canal can be used for separation systems. The pipe system contains an anti-slip Seal, which can be removed, replaced on site if required and can be inserted easily. The homogeneous wall structure and the highly modular Polypropylene allows the use under heavy traffic LM 1 (DIN EN 1991-2/NA) former SLW 60 and installation depths from 0.5 m to 6.0 m. The Acaro PP SN 12 pipe system can be used to drain domestic, municipal and industrial waste water according to chemical resistance. Due to the extended leak tests, the pipe system can be can be used in drinking water protection zones.

Product specifications:

- Nominal sizes: DN/OD110 − DN/OD630 in red brown and DN/OD160 − DN/OD500 in blue
- Range of fittings: bends, branches, double sockets, transitions and special fittings (see product range) in DN/OD110 – DN/OD630 in the respective colors
- Material: Polypropylene (PP)
- Ocolor: red brown = foul water; blue = rainwater
- Standards: DIN EN 1852
- Connections: push fit system (DN/OD160 DN/OD400 with integrated socket) and welding system (Acaro PP WS)
- O Sealing material: according to DIN EN 681-1; EPDM, on request NBR
- Sealing reliability: tested at 5.0 bar pressure; 0.8 bar vacuum; root resistance according to DIN EN 14741, minimum contact pressure after 100 years 2.0 bar proven
- O High pressure flushing resistance: proven according to DIN 19523
- Chemical resistance: according to chemical resistance list, ISO/TR10358, DIN EN1852; pH 2-12

Installation conditions:

- Installation must be in accordance with DIN EN 1610
- Ocmpaction in layers of max. 30 cm height
- Grain sizes depend on nominal pipe diameter and grain properties according to DIN EN 1610
- Lower bedding layer according to Type I (100 150 mm), support angle of 90° and a cover of 150 mm
- Ocompaction according to DIN EN 1610; depending on application Proctor ≥95%







Acaro PP SN 12



System specifications:

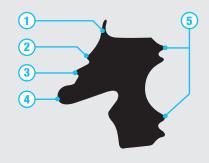
General	Diameter		DN/OD 110 - DN/OD 630
	Material		PP
	Ringstiffness (according to DIN EN ISO 9969)		≥12 kN/m²
	Special features		inside marking
Construction/Seals	System		solid wall pipe
		inside	smooth
		outside	smooth
nstrı	Connections		push fit
Ö	Seal	standard	EPDM
		on request	NBR
Static	Min. coverage		0.50 m
	Max. coverage		6.00 m
	Max. installation depth in groundwater		5.00m
	Traffic load		LM1 according to DIN EN 1991-2/NA, rather: SLW 60 according to DIN 1072
Approvals and relevant standards	Product standard		DIN EN 1852
	Application standard		DIN EN 476
	Seal		DIN EN 681
	Installation		DIN EN 1610
	Guidelines		ATV-DVWK-A 142 ATV-DWK-A 127 DWA-A 118 DWA-A 139 ZTV A-StB 97 ZTV E-StB 09

Sealing reliability:

The sealing safety is tested from -0.8 to 5.0 bar and thus meets the highest requirements in the market for pressureless piping systems. The sealing safety over the entire Service life and root resistance have been tested in accordance with DIN EN14741. That sealing system meets the requirements for long-term tightness at 10% deformation and a contact pressure of at least 2.0 bar after 100 years. In addition, the thermal cycling test at high temperatures and tightness during deangeling of 2° tested and fulfilled. The gap dimension of the socket connection is significantly less than 1.5% and thus offers further protection against root ingrowth. The system can be installed in drinking water protection zones II and III (DWA-A 142).

Sealing system:

Construction



1 Supporting lip

Secures the seal in the groove and supports it against the pipe

Wiper lip

Prevents penetration of small dirt particles

- 3 Small sealing lip For sealing small scrapes on the pipe surface
- 4 Large sealing lipe
 For a large sealing surface and
 high contact pressure

tight positioning in the groove

5 **Double lip**Two double lips for a safe and

Function

Special construction, the sealing ring is firmly fixed in the beading positioned. The first lip works as a supporting lip.



Through the fourstage Structure become the insertion forces significantly minimized and it's easier to make the connection.



The support lip lays with complete pushed in pipe additionally against the pipe wall. This means that four seal-



ing lips seal the pipe to ensure that both with internal as well as external pressure a high sealing reliability.

Wavin GmbH | Industriestraße 20 | 49767 Twist | T +49 5936 12-0 | F +49 5936 12-211 | info@wavin.de Connect to better at www.wavin.de



