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Wavin TS^{DOQ}[®] pressure pipes

for water, gas, sewer
and industrial applications



Wavin was challenged to develop a pressure pipe of which the service life would not be affected by outside damages (scoring and point loads). Point loads were an increased danger when new installation techniques (e.g. trenchless applications and installations without sand embedding) were introduced.

To meet this challenge Wavin developed its superior Wavin TS^{DOQ} (Total Security) pipe system. Wavin TS^{DOQ} is a co-extruded three-layer pipe with inner and outer protection layers made of the innovative, extremely robust plastic XSC 50. The middle layer is made of black coloured PE 100 RC material, except for gas applications. The three layers are integrated and cannot be separated mechanically.

Wavin TS^{DOQ} pipes are available in various pressure classes and colour configurations in pipe lengths of 12 m or coiled on reels in continuous lengths on request.

For potable water applications, Wavin TS^{DOQ} is available in blue with a black coloured middle layer. For sewer pipes in dark green with a black coloured middle layer. For gas applications the pipes are coloured orange. Standards PE 100 fittings can be used to complete the system.



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Quality requirements

Wavin TS^{DOO}® pipes are certified as PE 100 pipes by the German DVGW association and comply with the relevant European standards: EN 12201 for water supply and for sewage under pressure and EN 1555 for gas. In addition, Wavin TS^{DOO}® pipes have demonstrated to comply with the requirements on point load and slow crack resistance, as laid down in the (publicly available standard) PAS 1075.

Rigorous testing and quality control throughout the entire production process ensure the reliability of the systems. Product and material certificates offer the highest level of quality and reliability.

Range

Category Wavin TS ^{DOO} ®	Dimensions (OD) ^{1) 2)} mm	
	PN16	PN 10
for potable water (blue)	ø 32 - 450	ø 225 - 630
for industrial and sewer (green)	ø 63 - 450	
for gas (orange)		ø 32 - 225

¹⁾: Other pressure classes available on request

²⁾: Pressure rating according to EN 12201 and EN 1555.

Details available on request.

A specialised team within Wavin is dedicated to supplying all required products for large-scale pipe projects. This team is experienced in “right-on-time” delivery of very large quantities to complex construction projects. Upon request technical advice and training can be offered by Wavin experts to assist in these projects.

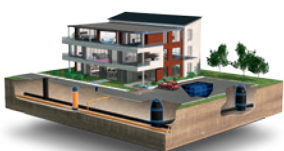
Applications

Wavin TS^{DOO}® is manufactured for the supply of drinking water and gas, especially for trenchless applications and installations using the native soil as backfill. Wavin TS^{DOO}® is also suitable for sewer applications. Wavin TS^{DOO}® pipes can be installed as easy as traditional PE 100 pipes and have the same fusion characteristics. The pipes and fittings can be connected by butt-fusion or electrofusion as well as other standard jointing techniques.

System benefits



- ⦿ **Optimum protection**
Protection against point loads and surface damages.
- ⦿ **Very long service life**
Even with outside damages.
- ⦿ **Installations with excavated trench material**
No sand embedding needed.
- ⦿ **Ideal for trenchless installation of new pipelines**
For example horizontal directional drilling and mole ploughing.
- ⦿ **To be handled as regular PE 100 pipes**
Regarding bendability and fuse-ability.



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Water management | Heating and cooling | Water and gas distribution | Waste water drainage | Cable ducting



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