

Tegra 1000 PE

The manhole system with DIBt-approval

Application area:

Wavin Tegra 1000 PE can be installed in sewer- and rainwater applications and is building authority approved according to DIBt Z-42.1-313. It can be individual equipped with different connections, flowprofiles and instruments. Pipe connections can be revised to the installation conditions. Tegra 1000 PE can be installed in heavy traffic area according to LM1 (DIN EN 1991-2/NA) or rather SLW60. Smooth wall pipe systems according to

DIN EN 1401, 1852, 14758, 13476-2, X-Stream pipes according to DIN EN 13476-3 and welding PE-pipesystems according to DIN EN 12666 can be connected directly. Installation depths up to 8.0m, in groundwater max. 5.0m, are possible. The manhole system can be equipped with integrated flexible ball joints to adjust change in directions and gradients.

Product specifications:

- ⊕ Inside diameter: DN/ID1000
- ⊕ Base: outside ribbed, inside smooth, closed smooth bottom plate
- ⊕ Flow profiles: straight, bend, branch (see technical manual)
- ⊕ Connection dimensions: DN/OD160, 200, 250, 315, 400, 500, 600, 800
- ⊕ Connection: socket for smooth wall pipes, with flexible ball joint adjustable up to 15°; fixed spigot; PE-flexible ball joint for welding
- ⊕ Shaft pipe: outside ribbed, inside smooth wall; incl. ladder made of GRP
- ⊕ Cone: opening 6 40mm for covers DN625, excentric; incl. ladder made of GRP according to BG177
- ⊕ Cover: depends on type of traffic, directly or with telescope; A15, B125, D400 according to DIN EN 124
- ⊕ Support ring: made of concrete or plastic DN625, concrete cover plate DN/ID625 or DN/ID800
- ⊕ Material: base, shaft pipe, cone polyethylene (PE); cover A15 (PE/PP), cover B125 and D400 cast
- ⊕ Color: black
- ⊕ Standards: following to DIN EN 13598-2 and DIN EN 19572
- ⊕ Connections: plug-in system
- ⊕ Seal material: according to DIN EN 681-1, SBR
- ⊕ Leak tightness requirement: pressure test 0.5bar, 0.8bar in vacuum; infiltration tight (IKT-approved)
- ⊕ Lifetime: up to 100 years
- ⊕ Installation depth: max. 8.0m, in ground water max. 5.0m

Installation conditions:

- ⊕ Installation has to be done in line with DIN EN 1610
- ⊕ Compaction pending on traffic area between 95% (non-traffic area) and 98% (heavy traffic area)
- ⊕ Basement on bedding material according DIN EN 1610, no concrete needed
- ⊕ Min backfill around the base and shaft DN/2
- ⊕ Protection against floating up to 5.0m by full compaction



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SYSTEM SPECIFICATIONS:

SYSTEM COMPONENTS:

General	Diameter inside	DN/ID1000
	Material	PP
	Manhole	yes
	Integrated ladder	optionally
Construction	System	push fit system or monolithic (welded)
	Chamber outside/inside	ribbed/smooth
	Base outside/inside	ribbed/smooth
	Shaft pipe outside/inside	ribbed/smooth
	Cone outside/inside	ribbed/smooth
Connection	Push fit flexible ball joint	DN160 – DN315
	fixed socket	up to DN800
	fixed spigot	up to DN630
	Welding flexible ball joint/spigot	Da160 – Da355
Connection in shaft	on request	
Seals	Pipe connections	EPDM (ball joint socket) SBR (fixed spigot)
	Shaft connections	EPDM
	Cover	EPDM
Static	Max. installation depth	8.00m
	Max. installation depth in groundwater	5.00m
	Traffic load	LM1 according to DIN EN 1991-2/NA, rather: SLW60 according to DIN 1072
	Cover classes	A15 – D400
Approvals and relevant standards	Product standard	DIN EN 13598-2
	Seal	DIN EN 681
	Cover	DIN EN 124
	Application standard	DIN EN 476 DIN EN 752 DIN 1986
	Installation	DIN EN 1610
	Guidelines	ATV-DWK-A 142 DWA-A 110 DVS 2207-4
	Instructions	BG-177



DIBt approval: Z-42.1-313



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