

PE DRAINAGE

HDPE PIPING SYSTEM

The Geberit Polyethylene (PE) drainage system is ideally suited for use in a wide range of applications including: above and below ground drainage, normal and industrial waste and stormwater, as well as rainwater discharge inside domestic and industrial buildings.



Standards and Quality Marks

Geberit PE Drainage is produced in conformity with the unified standard EN 1519 and has Watermark License W210 under MP52 Spec 005: - Sanitary plumbing pipes and pipe fittings.

Benefits

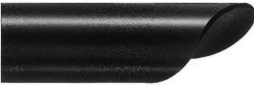
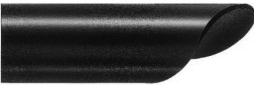
- Quick and simple to install, via either butt welding or electrofusion welding
- Safe, secure and flexible
- Fewer blockages as PE's non-wettable surface resists build up and aids faster flow to reduce the likelihood of blockages
- High impact resistance, even at low temperatures
- Low noise transmission
- Wide temperature range
- Excellent abrasion resistance
- Good chemical resistance, please contact our sales team for suitability

Applications

A Geberit PE Drainage system is ideally suited to applications where high integrity is required:

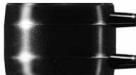
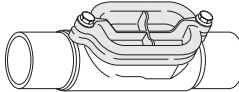
- DWV services and ducts in and under buildings
- Industrial waste drainage
- Hot and cold waste lines
- Sewer or drain rehabilitation
- Where ground or structural movement could occur (e.g. earthquakes)
- Siphonic roof drainage systems
- "Greasy" tradewaste

For information relating to Siphonic drainage systems and Sovent ventilated stack systems please contact our sales team.

PE DRAINAGE PIPE				
	Code	Size OD (mm)	Wall Thickness (mm)	Internal Diameter (mm)
PE Drainage Pipe 5 Metre Lengths 	PPED/040	40	3	34
	PPED/050	50	3	44
	PPED/056	56	3	50
	PPED/063	63	3	57
	PPED/075	75	3	69
	PPED/090	90	3.5	83
	PPED/110	110	4.3	101.4
	PPED/125	125	4.9	115.2
	PPED/160	160	6.2	147.6
	*PPED/200	200	7.7	184.6
	*PPED/250	250	9.7	230.6
	*PPED/315	315	12.2	290.6
*SDR26 rated				
PE Drainage Pipe 5 Metre Lengths 	PPED33/200	200	6.2	187.6
	PPED33/250	250	7.8	234.4
	PPED33/315	315	9.8	295.4
SDR33 rated				

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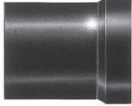
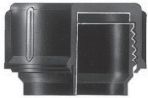
PE DRAINAGE FITTINGS						
	Code	Size OD (mm)			Code	Size OD (mm)
Electrofusion Coupler 	FPEDEC/040	40	Equal Tee 	Reducing Tee 	FPEDT/040	40
	FPEDEC/050	50			FPEDT/050	50
	FPEDEC/056	56			FPEDT/056	56
	FPEDEC/063	63			FPEDT/063	63
	FPEDEC/075	75			FPEDT/075	75
	FPEDEC/090	90			FPEDT/090	90
	FPEDEC/110	110			FPEDT/110	110
	FPEDEC/125	125			FPEDT/160	160
	FPEDEC/160	160			FPEDT/200	200
	FPEDEC/200	200			FPEDT/250	250
	FPEDEC/250	250			FPEDT/315	315
	FPEDEC/315	315				
Elbow 45°  *Larger sizes prefabricated	FPEDEL45/040	40	88.5° Swept Tee 	Access Pipe With Screw Cap 88° 	FPEDRT/050X040	50 x 40
	FPEDEL45/050	50			FPEDRT/056X050	56 x 50
	FPEDEL45/056	56			FPEDRT/075X040	75 x 40
	FPEDEL45/063	63			FPEDRT/075X050	75 x 50
	FPEDEL45/075	75			FPEDRT/075X056	75 x 56
	FPEDEL45/090	90			FPEDRT/075X063	75 x 63
	FPEDEL45/110	110			FPEDRT/110X040	110 x 40
	FPEDEL45/125	125			FPEDRT/110X050	110 x 50
	FPEDEL45/160	160			FPEDRT/110X056	110 x 56
	FPEDEL45/200	200			FPEDRT/110X063	110 x 63
	*FPEDEL45/250	250			FPEDRT/110X075	110 x 75
	*FPEDEL45/315	315			FPEDRT/110X090	110 x 90
Bend 88°  *Larger sizes prefabricated	FPEDEL88/040	40	Access Pipe With Oval Cover 	4 Way Riser 	FPEDRT/160X075	160 x 75
	FPEDEL88/050	50			FPEDRT/160X110	160 x 110
	FPEDEL88/056	56			FPEDRT/200X110	200 x 110
	FPEDEL88/063	63			FPEDRT/200X160	200 x 160
	FPEDEL88/075	75			FPEDRT/250X110	250 x 110
	FPEDEL88/090	90			FPEDRT/250X160	250 x 160
	FPEDEL88/110	110			FPEDRT/315X160	315 x 160
	FPEDEL88/125	125			FPEDRT/315X200	315 x 200
	*FPEDEL88/160	160			FPEDRT/315X250	315 x 250
					FPEDST/110x110	110
90° Bend Long Spigot  *Larger sizes prefabricated	FPEDB90LS/040	40	Ball Chambers with 2, 3 or 4 branches - available on request		FPEDAP/063	63
	FPEDB90LS/050	50			FPEDAP/075	75
	FPEDB90LS/056	56			FPEDAP/090	90
	FPEDB90LS/063	63			FPEDAP/110	110
	FPEDB90LS/075	75			FPEDAP/160	160
	FPEDB90LS/090	90				
90° Segmented Bend *Prefabricated to order	FPEDB90LS/110	110			FPEDAP/200	200
	*FPEDB90LS/160	160			FPEDAP/250	250
					FPEDAP/315	315
Stub Flange 	*FPEDEL90/200	200				
	*FPEDEL90/250	250				
	*FPEDEL90/315	315				
	FPEDSF/050	50				
	FPEDSF/056	56				
	FPEDSF/063	63				
	FPEDSF/075	75				
	FPEDSF/090	90				
	FPEDSF/110	110				
FPEDSF/160	160					
FPEDSF/200	200					
FPEDSF/250	250					
FPEDSF/315	315					

PE DRAINAGE FITTINGS									
	Code	Size OD (mm)							
Wye Junction 45° *Larger sizes prefabricated	FPEDWYE/040	40		45° Double Branch 	FPEDDWYE/110X110 110 x 110				
	FPEDWYE/050	50							
	FPEDWYE/056	56							
	FPEDWYE/063	63							
	FPEDWYE/075	75							
	FPEDWYE/090	90							
	FPEDWYE/110	110							
	FPEDWYE/125	125							
	FPEDWYE/160	160							
	*FPEDWYE/200	200							
Reducing Wye Junction 	*FPEDWYE/250	250		Eccentric Reducer 	FPEDER/050X040 50x40 FPEDER/056X040 56x40 FPEDER/056X050 56x50 FPEDER/063X050 63x50 FPEDER/063X056 63x56 FPEDER/075X040 75x40 FPEDER/075X050 75x50 FPEDER/075X056 75x56 FPEDER/075X063 75x63 FPEDER/090X050 90x50 FPEDER/090X056 90x56 FPEDER/090X063 90x63 FPEDER/090X075 90x75 FPEDER/110X040 110x40 FPEDER/110X050 110x50 FPEDER/110X056 110x56 FPEDER/110X075 110x75 FPEDER/110X090 110x90 FPEDER/125X063 125x63 FPEDER/125X075 125x75 FPEDER/125X090 125x90 FPEDER/125X110 125x110 FPEDER/160X075 160x75 FPEDER/160X090 160x90 FPEDER/160X110 160x110 FPEDER/160X125 160x125 *FPEDWYE/200X110 200 x 110 *FPEDWYE/200X125 200 x 125 *FPEDWYE/200X160 200 x 160 *FPEDWYE/250X110 250 x 110 *FPEDWYE/250X160 250 x 160 *FPEDWYE/250X200 250 x 200 *FPEDWYE/315X110 315 x 110 *FPEDWYE/315X160 315 x 160 *FPEDWYE/315X200 315 x 200 *FPEDWYE/315X250 315 x 250				
	FPEDWYE/050X040	50 x 40							
	FPEDWYE/056X050	56 x 50							
	FPEDWYE/063X040	63 x 40							
	FPEDWYE/063X050	63 x 50							
	FPEDWYE/063X056	63 x 56							
	FPEDWYE/075X040	75 x 40							
	FPEDWYE/075X050	75 x 50							
	FPEDWYE/075X056	75 x 56							
	FPEDWYE/075X063	75 x 63							
	FPEDWYE/090X040	90 x 40							
	FPEDWYE/090X050	90 x 50							
	FPEDWYE/090X056	90 x 56							
	FPEDWYE/090X063	90 x 63							
	FPEDWYE/090X075	90 x 75							
	FPEDWYE/110X040	110 x 40							
	FPEDWYE/110X050	110 x 50							
	FPEDWYE/110X056	110 x 56							
	FPEDWYE/110X075	110 x 75							
	FPEDWYE/110X090	110 x 90							
	FPEDWYE/125X063	125 x 63							
	FPEDWYE/125X075	125 x 75							
	FPEDWYE/125X090	125 x 90							
	FPEDWYE/125X110	125 x 110							
	FPEDWYE/160X075	160 x 75							
	FPEDWYE/160X090	160 x 90							
	FPEDWYE/160X110	160 x 110							
	FPEDWYE/160X125	160 x 125							
	Loose Nut Threaded Adaptor 	FPEDLNUT/050X11/2				50 x 1½"		Note: Can be EF or Butt Welded Long Spigot Eccentric Reducer 	FPEDERLS/200X110 200x110 FPEDERLS/200X125 200x125 FPEDERLS/200X160 200x160 FPEDERLS/250X200 250x200 FPEDERLS/315X200 315x200 FPEDERLS/315X250 315x250
		FPEDLNUT/050X2				50 x 2"			
				Male Threaded Adaptor 	FPEDMA/050X11/2 50x1½" FPEDMA/056X2 56x2" FPEDMA/063X2 63x2" FPEDMA/075X21/2 75x2½"				
				Female Threaded Adaptor 	FPEDFA/040X1 40x1" FPEDFA/050X11/2 50x1½" FPEDFA/056X2 56x2" FPEDFA/063X2 63x2" FPEDFA/075X21/2 75x2½"				

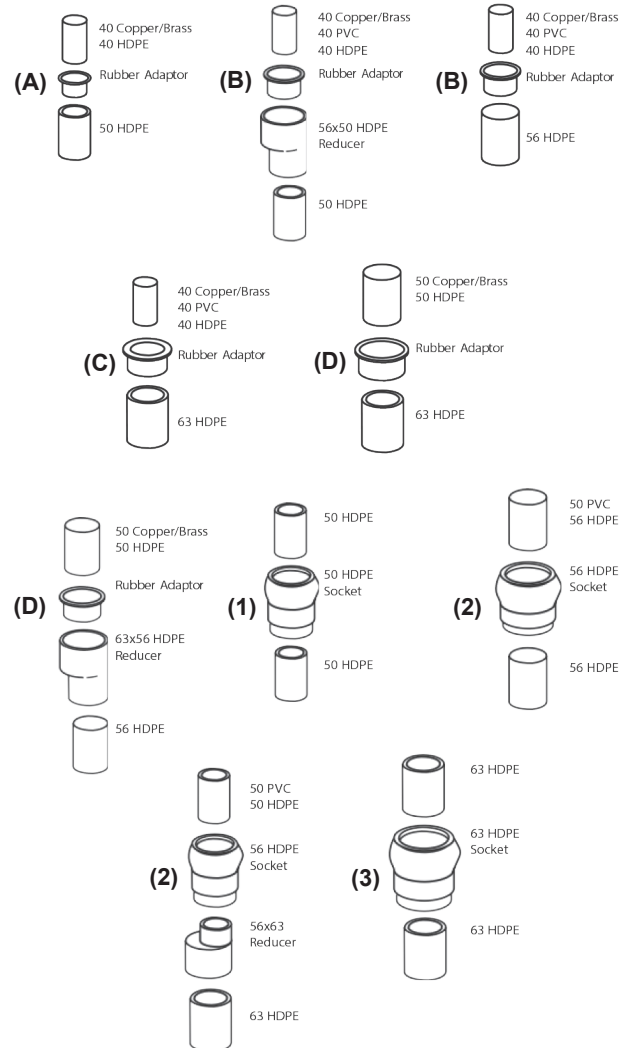
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	Code	Size OD (mm)
Pan Connector 	FPEDPC/110	110 x 135 Rubber
Screwed End Cap 	FPEDSEC/040	40
	FPEDSEC/050	50
	FPEDSEC/056	56
	FPEDSEC/060	63
	FPEDSEC/070	75
	FPEDSEC/090	90
Long Spigot Screwed End Cap 	FPEDSECLS/056	56
	FPEDSECLS/075	75
	FPEDSECLS/090	90
S Trap 	FPEDSTRAP/050X050	50
	FPEDSTRAP/050X056	50x56
P Trap 	FPEDPTRAP/050X050	50
	FPEDPTRAP/050X056	50x56
P Trap - Short Fixed  Note: Other P Trap sizes also available	FPEDSPT/050	50
	FPEDSPT/056	56
	FPEDSPT/063	63
	FPEDSPT/075	75
	FPEDSPT/090	90
	FPEDSPT/110	110
	FPEDSPT/160	160
P Trap - Long Fixed  Note: Other P Trap sizes also available	FPEDLPT/050	50
	FPEDLPT/056	56
	FPEDLPT/063	63
	FPEDLPT/075	75
	FPEDLPT/090	90
	FPEDLPT/110	110
P Trap Short Adjustable  Note: Other P Trap sizes also available	FPEDAPT/110	110

Adaptors from 50, 56, 63mm HDPE to the fixture trap or tundish



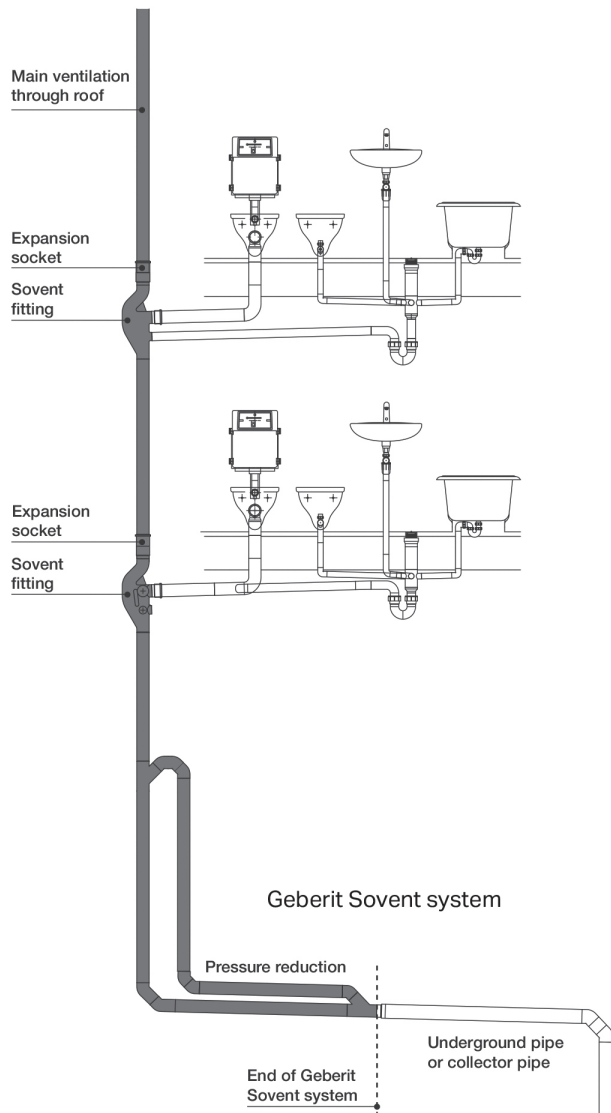
Reduce pipe > 63mm using PE eccentric reducer then adaptors from above

KEY	Code	Size OD (mm)
(A)	FPEDRTA/050X040	50 x 40
(B)	FPEDRTA/056X040	56 x 40
(C)	FPEDRTA/063X040	63 x 40
(D)	FPEDRTA/063X050	63 x 50
(Butt Weld only)		
(1)	FPEDRRJ/050	50
(2)	FPEDRRJ/056	56
(3)	FPEDRRJ/063	63
OR Long Spigot for EF		
(1)	FPEDRRJLS/050	50
(2)	FPEDRRJLS/056	56
(63mm not available)		

PE DRAINAGE FITTINGS

Due to its high capacity and excellent performance Geberit Sovent is an ideal drainage system for:

- High-rise office buildings
- Hotels
- Multi-storey residential buildings



Why is Geberit Sovent a better solution?

There is a simple answer to that:

- Better performance, less space, labour and material cost

Better performance.

In comparison with conventional systems, Geberit Sovent:

- Reduces the pneumatic and hydraulic pressure
- Offers versatile branch joining possibilities
- Reduces stack sizes with the same loading capacities as a secondary ventilated system
- Saves space

Expansion Joint



Ring Seal Adaptor



Long spigot will suit
butt weld & EF

PE Slab Adaptor



Long Spigot Weld On End Cap



EF (Anchor) Tape

Open Weave Cloth

Electrofusion Control Unit

Welds 3 joints at one time
(up to 110mm)

Sovent Ventilation Branch



	Code	Size OD (mm)
Expansion Joint	FPEDEJ/050	50
	FPEDEJ/056	56
	FPEDEJ/063	63
	FPEDEJ/075	75
	FPEDEJ/090	90
	FPEDEJ/110	110
	FPEDEJ/125	125
	FPEDEJ/160	160
	FPEDEJ/200	200
	FPEDEJ/250	250
	FPEDEJ/315	315
Ring Seal Adaptor	FPEDRRJ/040	40
	FPEDRRJ/050	50
	FPEDRRJ/056	56
	FPEDRRJ/063	63
	FPEDRRJ/075	75
	FPEDRRJ/090	90
	FPEDRRJ/110	110
	FPEDRRJ/160	160
	FPEDSLAB/110	110
Long Spigot Weld On End Cap	FPEDWECLS/050	50
	FPEDWECLS/056	56
	FPEDWECLS/075	75
	FPEDWECLS/090	90
	FPEDWECLS/110	110
	FPEDWECLS/160	160
EF (Anchor) Tape	FPEDEFTAPE/110	110
	FPEDEFTAPE/160	160
	FPEDEFTAPE/200	200
	FPEDEFTAPE/250	250
	FPEDEFTAPE/315	315
Open Weave Cloth	FPEDOC	
Electrofusion Control Unit	GEBERITESG3	40 - 315
Sovent Ventilation Branch	FPEDVBHF/110	110
	FPEDVB/160	160

- Pre-fabricated ventilation branches offered to reduce In-situ welding and costs
- More than one PE/PVC ring seal adaptor: can be welded to a ventilation branch
- Off take locations and orientation to be confirmed at time of order

PE Drainage Tooling and Accessories are also available. Please refer to our Machines and Tooling Catalogue.

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GEBERIT PLUVIA SIPHONIC ROOF DRAINAGE SYSTEM

Double the amount of rainwater discharge.

Half the pipe diameter.

Geberit Pluvia outlets have been specially constructed to ensure rapid removal of rainwater from the roof using siphonic principles with a vacuum effect.

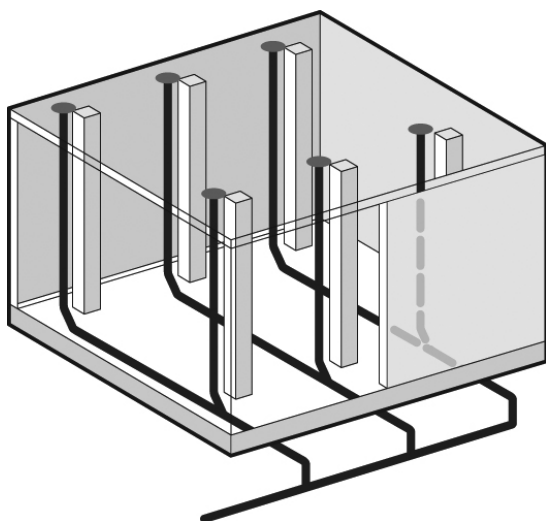
Greater installation flexibility.

The Pluvia system is simpler because no slopes are required for horizontal pipe runs, reducing ceiling space. Smaller pipe diameters can lead to lower material cost and greater installation flexibility.

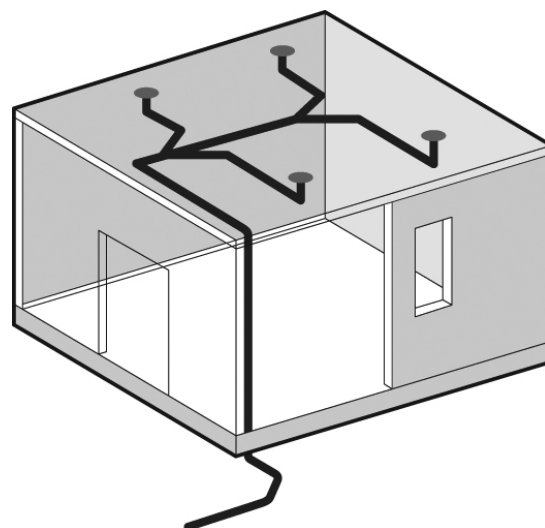
Service and support.

Geberit offers a comprehensive service package for customers from training to designing and onsite technical support. Fully accredited, our staff are able to assist consultants with the design of the Pluvia roof drainage system.

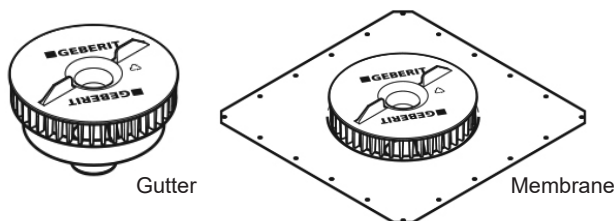
Advantages of Geberit Pluvia over conventional roof drainage systems



- Many roof outlets
- Pipe laying necessary on a slope
- Many stacks
- Complicated underground pipes
- Large pipe dimensions



- Fewer roof outlets due to the high drainage capacity per roof outlet
- Space savings
- Reduced construction effort
- Smaller pipe dimensions
- Self-cleaning of the pipes due to high flow speeds
- Architectural freedom



Roof outlets are a key component of a siphonic roof drainage system. Geberit roof outlets are available in gutter and membrane styles. Various sizes are available.

Roof outlets are not sold individually as they are supplied as part of the total siphonic system.

Each siphonic system is custom designed to suit individual buildings and roofs and the required ARI.

Siphonic roof drainage systems are quoted as a lump sum, and must be ordered as a package.

Pipework Support:

It is recommended that Geberit siphonic roof drainage systems are installed using a suspension rail system and appropriate pipe clamps. Anchor brackets (fixed points) must be provided when the pipeline changes orientation and also to control expansion and contraction.

Please enquire about pipe clamps designed to be used with the EF (anchor) tape listed below.