

ACO Qmax® 225



ACO Qmax® 225

ACO Qmax® 225

225	Unit size
	Hydraulic capacity
1500m ² *	Catchment area
0.0398m ³ /m	Attenuation capacity
	Access/outlet/inlet/ silt chambers
	Q-Slot access chamber, cover and frame

The ACO Qmax® 225 channel is manufactured from PE which is lightweight, chemically resistant and extremely robust. Its circular bore, sealed push fit channel connections and unique patented inlet design ensure drainage inverts are kept to a minimum, installation rates are maximised and the product is fully integrated within the pavement detail providing long term dependable performance.

ACO Qmax® 225 channels are available with the following components:

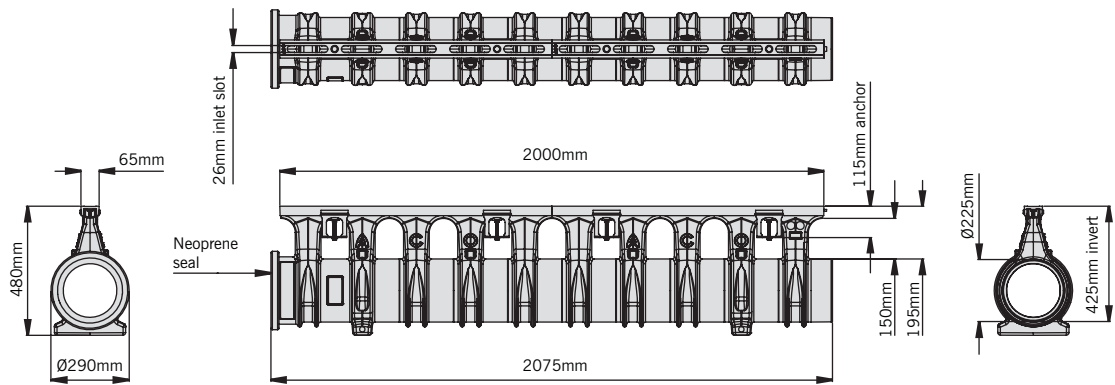
- Outlet and closing end cap
- Qmax® 225-350 step connector
- Access, outlet / inlet and silt chambers
- Installation edge rail protectors
- Q-Brake Vortex flow controls

*Example run based on 100m length
laid level at 50mm/hr

ACO Qmax® 225

ACO Qmax® 225 with ACO Q-Flow ductile iron edge rail

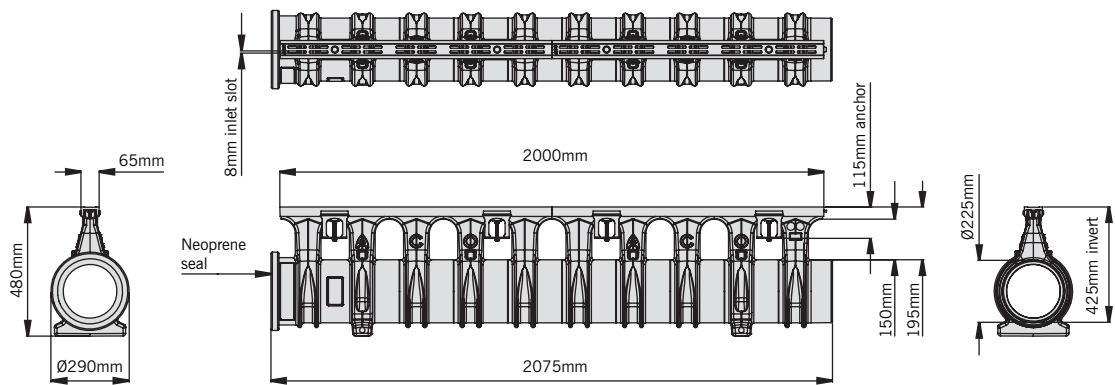
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32800	ACO Qmax® 225 channel assembly complete with ACO Q-Flow ductile iron edge rail	2000	Ø290	480	26	24



ACO Qmax® 225 with ACO Q-Flow ductile iron edge rail

ACO Qmax® 225 with ACO Q-Guard ductile iron edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32801	ACO Qmax® 225 channel assembly complete with ACO Q-Guard ductile iron edge rail	2000	Ø290	480	2 x 8	25



ACO Qmax® 225 with ACO Q-Guard ductile iron edge rail

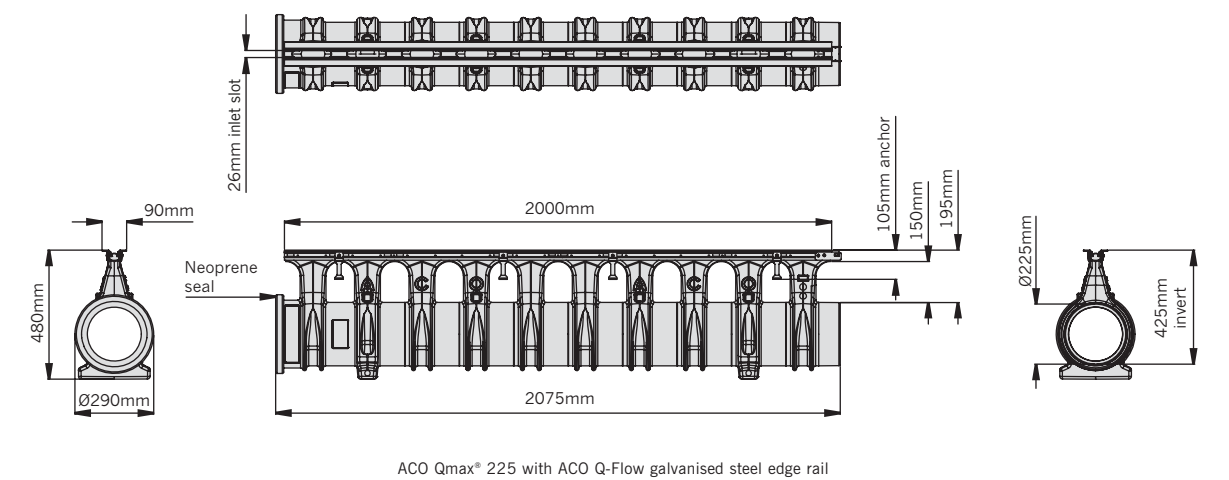
Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 225

ACO Qmax® 225 with ACO Q-Flow galvanised steel edge rail

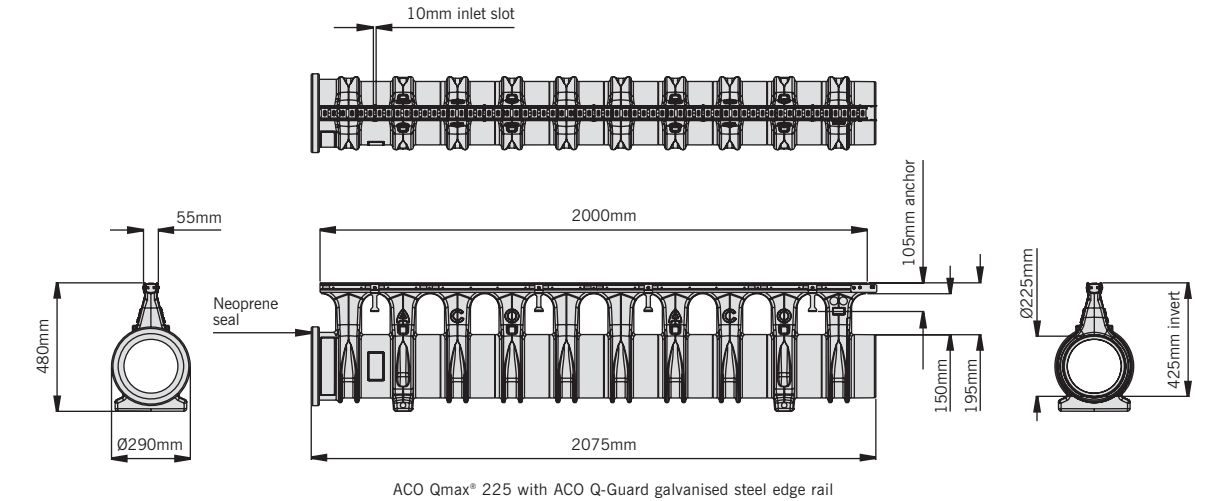
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32802	ACO Qmax® 225 channel assembly complete with ACO Q-Flow galvanised steel edge rail	2000	Ø290	480	26	17.8



ACO Qmax® 225 with ACO Q-Flow galvanised steel edge rail

ACO Qmax® 225 with ACO Q-Guard galvanised steel edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32803	ACO Qmax® 225 channel assembly complete with ACO Q-Guard galvanised steel edge rail	2000	Ø290	480	10	15.3



ACO Qmax® 225 with ACO Q-Guard galvanised steel edge rail

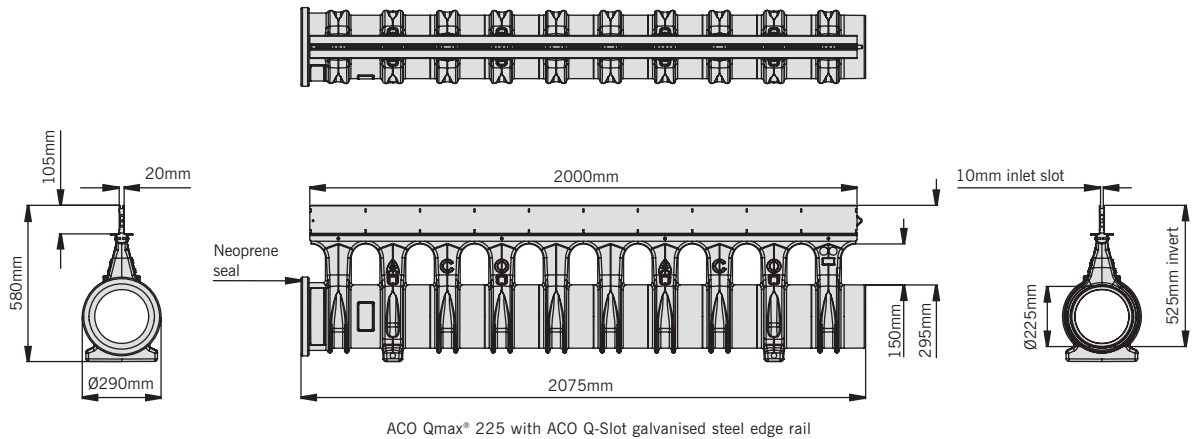
Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 225

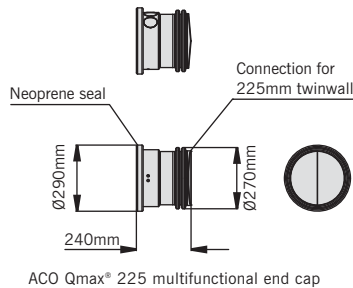
ACO Qmax® 225 with ACO Q-Slot galvanised steel edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32804	ACO Qmax® 225 channel assembly complete with ACO Q-Slot galvanised steel edge rail	2000	Ø290	580	10	22.9



ACO Qmax® 225 multifunctional end cap (closing/outlet/inlet)

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
42221	ACO Qmax® 225 multifunctional end cap	240	Ø290	Ø290	1.4



ACO Qmax® 225 multifunctional end cap has the following functions:

- ▶ Male and female closing end cap
- ▶ Male and female inlet/outlet end cap for connection to Ø225mm twinwall pipe
- ▶ Simple fitting

Installation instructions supplied

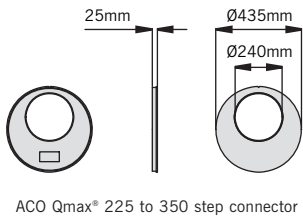
Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 225

ACO Qmax® 225 to 350 step connector

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32880	ACO Qmax® 225 to 350 step connector (M to F)	25	Ø435	-	0.8



ACO Qmax® 225 to 350 step connector has the following functions:

- ▶ Enables step fall installations of ACO Qmax® 225 and ACO Qmax® 350 channels
- ▶ For use between ACO Qmax® 225 male and ACO Qmax® 350 female channel connections
- ▶ Simple fitting

Installation instructions supplied

ACO Qmax® ductile iron edge rail protector

Product code	Description	Length (m)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32854	ACO Qmax® ductile iron edge rail protector 15.25m roll	15.25	65	1.5	5.0

ACO Qmax® ductile iron edge rail protector has the following functions:

- ▶ Used to cover and protect rails from debris during installation
- ▶ Simple fitting
- ▶ Can be reused

ACO Qmax® 225 hydraulic performance tables

Hydraulic capacities

The table opposite shows the maximum capacity of the unit, assuming uniform lateral inflow. The capacity will depend on the length of unit to the outlet and on any slope along the unit.

Q (l/s) is the maximum total flow that the channel can carry.

q (l/s/m) is the maximum possible lateral inflow.

A (m²) is the maximum area that can be drained and will depend on the design rainfall intensity chosen. The tabulated areas are for a rainfall intensity of 50mm/h (0.014 l/s/m²).

At other rainfall intensities, the area can be determined by proportion, e.g. at 75mm/h, the maximum area drained will be the tabulated area x 50/75.

ACO Qmax® 225 channels

Slope	0%			0.5%			1%		
Length to Outlet (m)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)
50	24.0	0.48	1728	44.5	0.89	3204	56.0	1.12	4032
100	21.0	0.21	1512	48.5	0.49	3492	63.0	0.63	4536
200	18.0	0.09	1296	51.6	0.26	3715	66.0	0.33	4752
300	15.6	0.05	1123	52.8	0.18	3802	66.3	0.22	4774
400	14.0	0.04	1008	53.6	0.13	3859	66.3	0.17	4774
500	13.0	0.03	936	54.0	0.11	3888	66.3	0.13	4774

ACO Water Management Design Services Team

Please contact the ACO Water Management Design Services Team on 01462 816666 for advice on channels with non-uniform inflow, or channels receiving point inflows at the end or at intermediate locations. The ACO Water Management Design Services Team will be pleased to assist with any technical queries, scheme designs or parts schedules.

Designing a drainage system

An example design method is provided on page 56 to help determine your drainage requirements.

This example will enable you to use the hydraulic performance tables on this page.

ACO Qmax® 350



ACO Qmax® 350

ACO Qmax® 350



The ACO Qmax® 350 channel is manufactured from PE which is lightweight, chemically resistant and extremely robust. Its circular bore, sealed push fit channel connections and unique patented inlet design ensure drainage inverts are kept to a minimum, installation rates are maximised and the product is fully integrated within the pavement detail providing long term dependable performance.

ACO Qmax® 350 channels are available with the following components:

- Outlet/inlet and closing end cap
- Access, outlet / inlet and silt chambers
- Installation edge rail protectors
- Q-Brake Vortex flow controls

350

Unit size



Hydraulic capacity

5200m²*

Catchment area

0.0962m³/m

Attenuation capacity



Access/outlet/inlet/
silt chambers



Q-Slot access
chamber, cover
and frame

*Example run based on 100m length
laid level at 50mm/hr rainfall

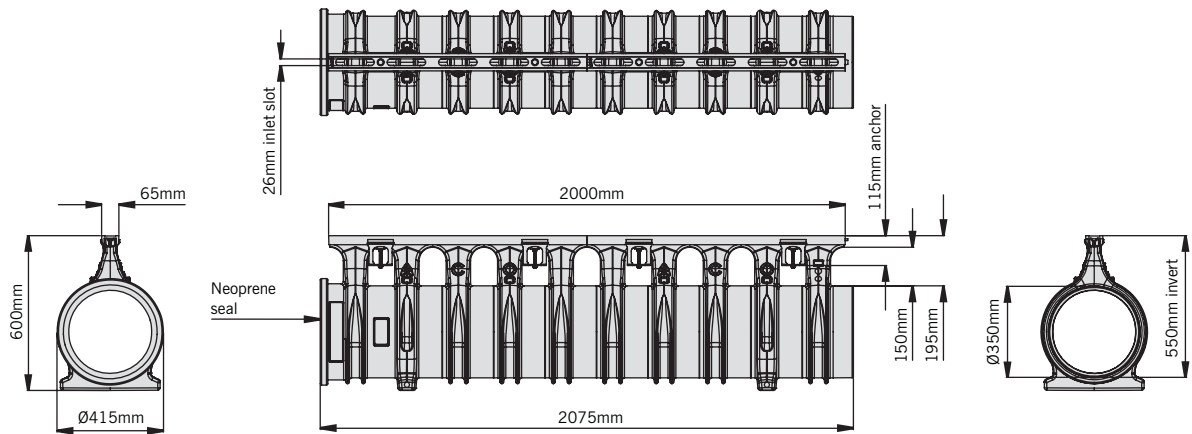
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ACO Qmax® 350

ACO Qmax® 350 with ACO Q-Flow ductile iron edge rail

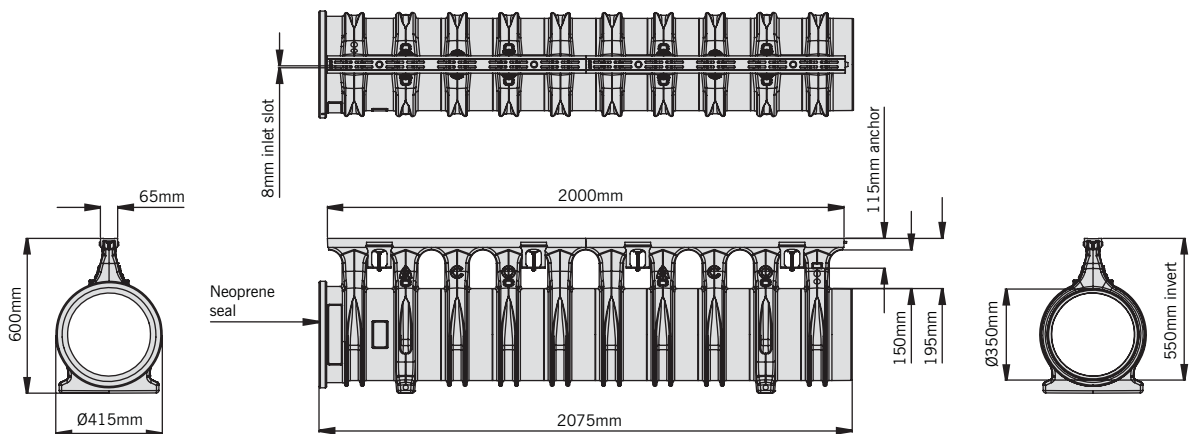
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32810	ACO Qmax® 350 channel assembly complete with ACO Q-Flow ductile iron edge rail	2000	Ø415	600	26	28.3



ACO Qmax® 350 with ACO Q-Flow ductile iron edge rail

ACO Qmax® 350 with ACO Q-Guard ductile iron edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32811	ACO Qmax® 350 channel assembly complete with ACO Q-Guard ductile iron edge rail	2000	Ø415	600	2 x 8	29.3



ACO Qmax® 350 with ACO Q-Guard ductile iron edge rail

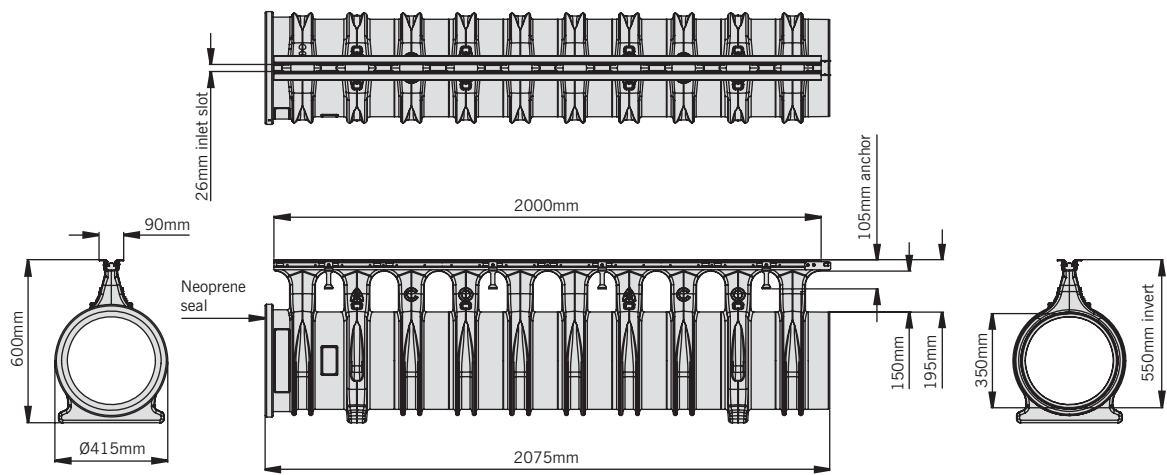
Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 350

ACO Qmax® 350 with ACO Q-Flow galvanised steel edge rail

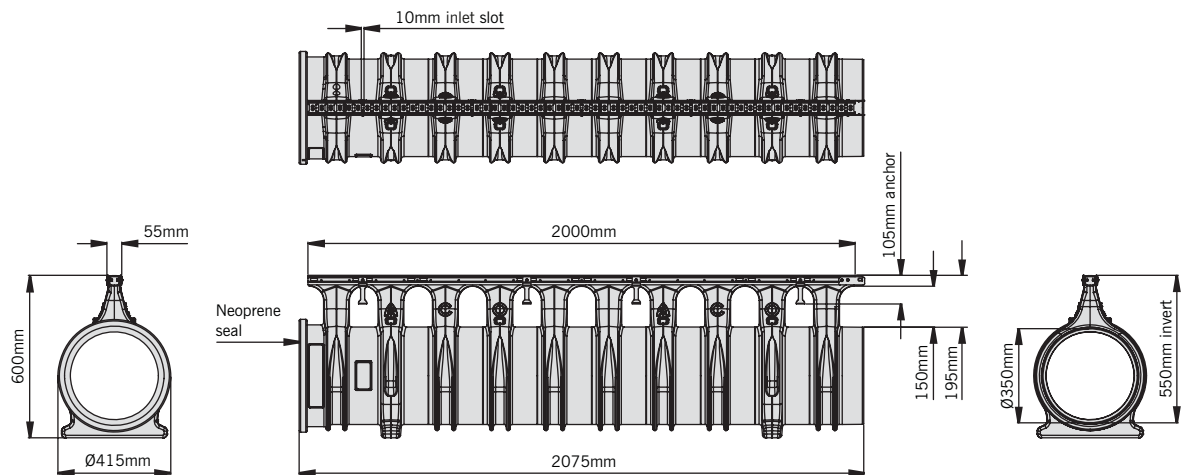
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32812	ACO Qmax® 350 channel assembly complete with ACO Q-Flow galvanised steel edge rail	2000	Ø415	600	26	24.0



ACO Qmax® 350 with ACO Q-Flow galvanised steel edge rail

ACO Qmax® 350 with ACO Q-Guard galvanised steel edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32813	ACO Qmax® 350 channel assembly complete with ACO Q-Guard galvanised steel edge rail	2000	Ø415	600	10	21.5



ACO Qmax® 350 with ACO Q-Guard galvanised steel edge rail

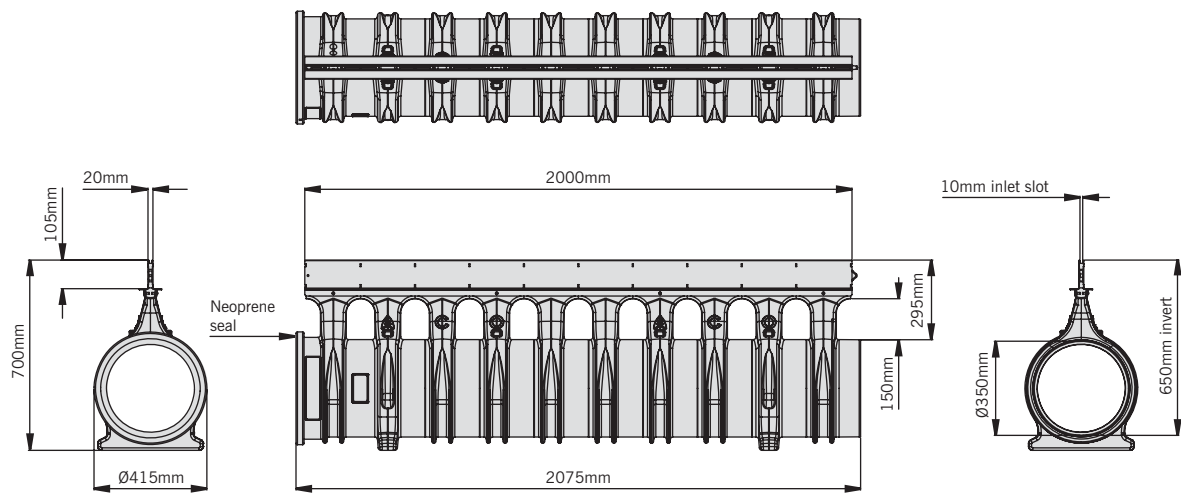
Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 350

ACO Qmax® 350 with ACO Q-Slot galvanised steel edge rail

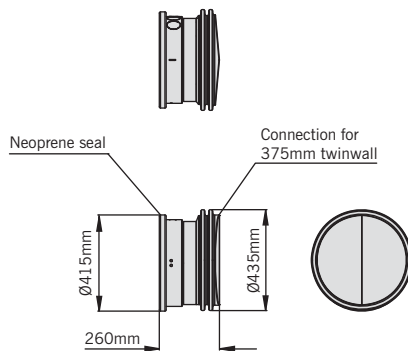
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32814	ACO Qmax® 350 channel assembly complete with ACO Q-Slot galvanised steel edge rail	2000	Ø415	700	10	29.1



ACO Qmax® 350 with ACO Q-Slot galvanised steel edge rail

ACO Qmax® 350 multifunctional end cap (closing/outlet/inlet)

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
42351	ACO Qmax® 350 multifunctional end cap	260	Ø415	Ø415	2.6



ACO Qmax® 350 multifunctional end cap

ACO Qmax® 350 multifunctional end cap has the following functions:

- ▶ Male and female closing end cap
- ▶ Male and female inlet/outlet end cap for connection to 375mm twinwall pipe
- ▶ Simple fitting

Installation instructions supplied

ACO Qmax® ductile iron edge rail protector

Product code	Description	Length (m)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32854	ACO Qmax® ductile iron edge rail protector 15.25m roll	15.25	65	1.5	5.0

ACO Qmax® ductile iron edge rail protector has the following functions:

- ▶ Used to cover and protect rails from debris during installation
- ▶ Simple fitting
- ▶ Can be reused

Note: For details regarding the access/outlet/inlet/silt chambers for use with this system please refer to page 32.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 350 hydraulic performance tables

Hydraulic capacities

The table opposite shows the maximum capacity of the unit, assuming uniform lateral inflow. The capacity will depend on the length of unit to the outlet and on any slope along the unit.

Q (l/s) is the maximum total flow that the channel can carry.

q (l/s/m) is the maximum possible lateral inflow.

A (m²) is the maximum area that can be drained and will depend on the design rainfall intensity chosen. The tabulated areas are for a rainfall intensity of 50mm/h (0.014 l/s/m²).

At other rainfall intensities, the area can be determined by proportion, e.g. at 75mm/h, the maximum area drained will be the tabulated area x 50/75.

ACO Qmax® 350 channels

Slope	0%			0.5%			1%		
Length to Outlet (m)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)
50	77.5	1.55	5580	127.5	2.55	9180	158.0	3.16	11376
100	71.6	0.72	5155	143.0	1.43	10296	182.0	1.82	13104
200	62.0	0.31	4464	156.0	0.78	11232	200.0	1.00	14400
300	55.5	0.19	3996	162.3	0.54	11686	210.0	0.70	15120
400	50.4	0.13	3629	166.0	0.42	11952	215.2	0.54	15494
500	47.5	0.10	3420	168.5	0.34	12132	217.5	0.44	15660
600	43.8	0.07	3150	170.0	0.28	12240	218.3	0.36	15720
700	42.0	0.06	3024	170.3	0.24	12260	218.6	0.31	15740

ACO Water Management Design Services Team

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Designing a drainage system

An example design method is provided on page 56 to help determine your drainage requirements.

This example will enable you to use the hydraulic performance tables on this page.

ACO Qmax® 150, 225 and 350 access, outlet/inlet and silt chambers

ACO Qmax® 150, 225 & 350 access, outlet/inlet and silt chambers provide a compact and economical method of gaining access to the channel system for maintenance and cleaning, connections to traditional underground drainage networks, or silt management.

These chambers are specifically designed for use with ACO Qmax® 150, 225 and 350 channels and allow 4-way channel connections to be made for simple directional changes and optimised scheme designs.

ACO Qmax® outlet/inlet and silt chambers provide outlet pipe connection to 160mm PVC-U, 200mm, 225mm and 300mm twinwall or clay pipe work. They also allow 110mm PVC-U inlet connections to be made, reducing the need for additional underground pipe work.

ACO Qmax® access, outlet/inlet and silt chambers are manufactured from PE which is lightweight, tough and chemically resistant.

Cover and frame options

The chambers come complete with a ductile iron slotted cover and frame available in either a lockable D 400 or hinged F 900 versions. An ACO Q-Slot D 400 galvanised steel recessed cover and frame for use with up to 100mm block paving, slab and natural stone is also available

Materials used in the construction of ACO Qmax® chambers contain high levels of recycled materials and are themselves recyclable at the end of their life.



D 400 / F 900 ductile iron slotted cover and frame



ACO Q-Slot D 400 galvanised steel recessed cover and frame

ACO Qmax® 150, 225 and 350 access, outlet/inlet and silt chambers

ACO Qmax® 150, 225 and 350 channel access, outlet/inlet and silt chambers with slotted cover and frame

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32970	Access chamber with D 400 slotted cover and frame	565	565	640	10	48
32971	Access chamber with F 900 slotted cover and frame	660	660	640	19	77.5
32972	Outlet/inlet chamber with D 400 slotted cover and frame	565	565	1095	10	52
32973	Outlet/inlet chamber with F 900 slotted cover and frame	660	660	1095	19	81.5
32974	Outlet/inlet/Silt chamber with D 400 slotted cover and frame	565	565	1600	10	60
32975	Outlet/inlet/Silt chamber with F 900 slotted cover and frame	660	660	1600	19	89.5

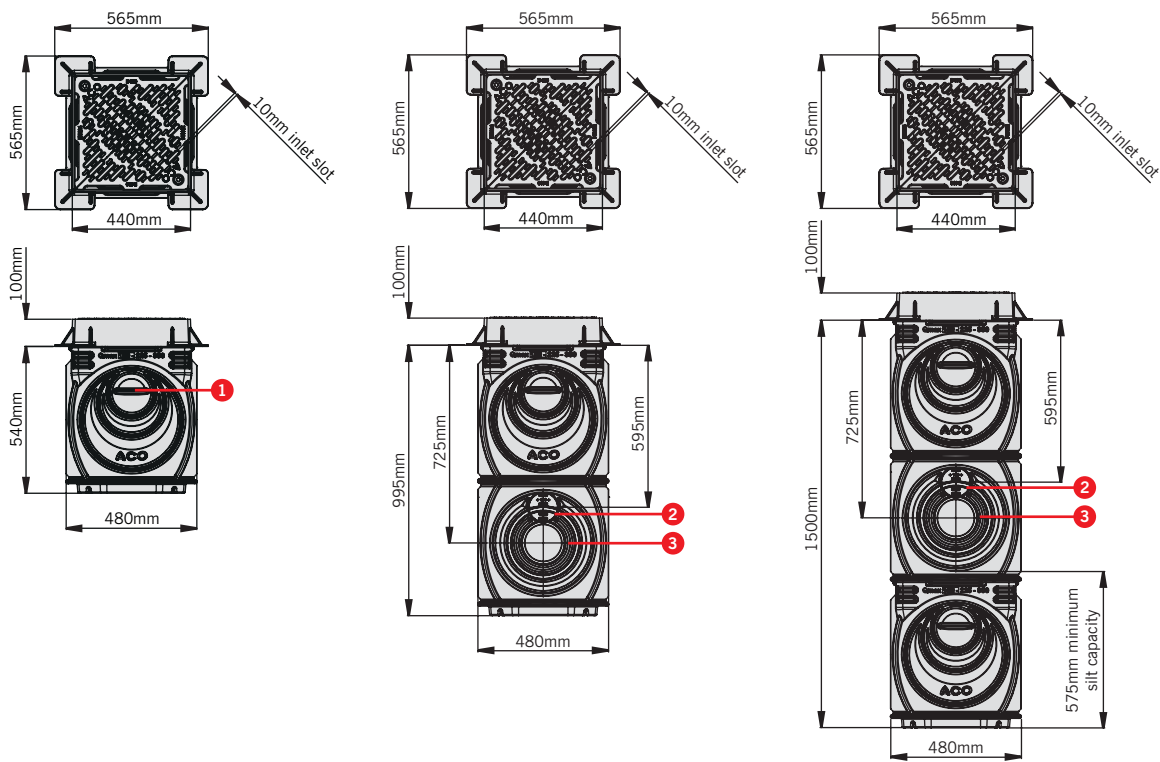


Image shows ACO Qmax® 150, 225 and 350 access chamber with D 400 slotted cover and frame. Also available in Load Class F 900.

Image shows ACO Qmax® 150, 225 and 350 access/outlet/inlet chamber with D 400 slotted cover and frame. Also available in Load Class F 900.

Image shows ACO Qmax® 150, 225 and 350 access/outlet/inlet/silt chamber with D 400 slotted cover and frame. Also available in Load Class F 900.

- 1 150, 225 & 350 channel connection
- 2 110mm PVC-U inlet connection
- 3 160mm PVC-U, 200mm, 225mm and 300mm twinwall or clay outlet connection

Maximum outlet capacity
(assuming water level to the crown of the channel bore)

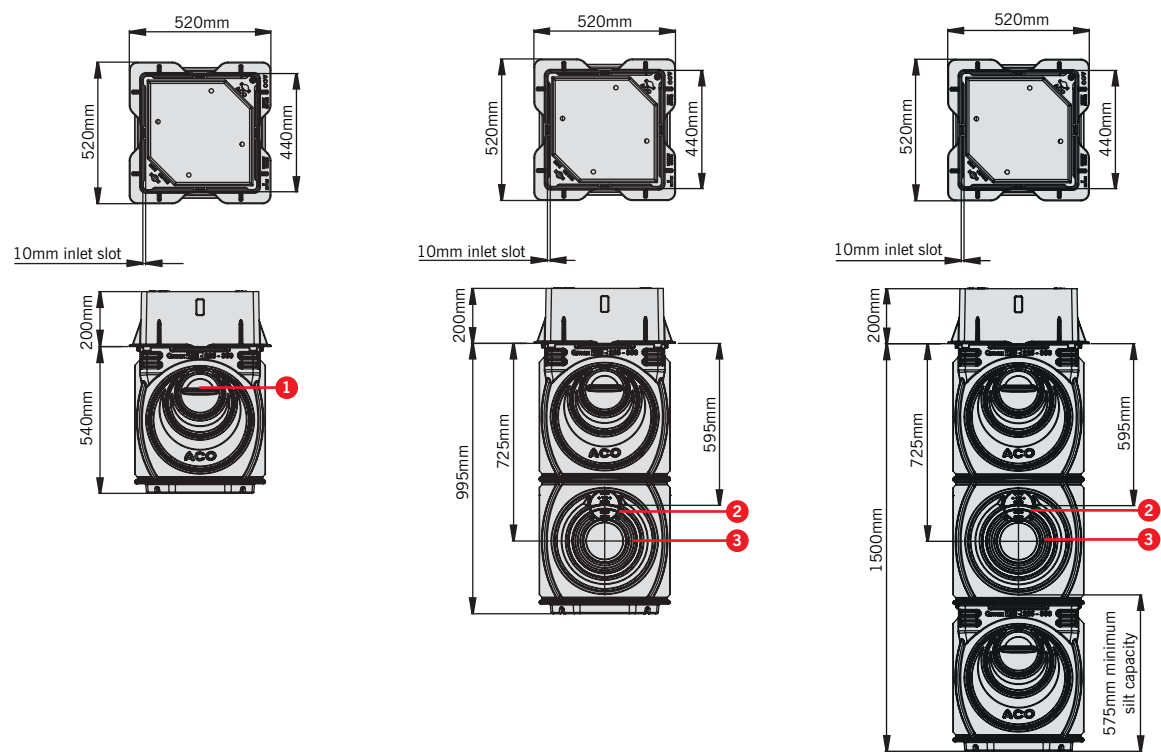
160mm	200mm	225mm	300mm
45 l/s	71 l/s	90 l/s	159 l/s

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 150, 225 and 350 access, outlet/inlet and silt chambers

ACO Qmax® 150, 225 and 350 channel access, outlet/inlet and silt chambers with ACO Q-Slot cover and frame

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32976	Access chamber with D 400 ACO Q-Slot recessed cover and frame	520	520	740	10	55.5
32977	Outlet/inlet chamber with D 400 ACO Q-Slot recessed cover and frame	520	520	1195	10	59.5
32978	Outlet/inlet/silt chamber with D 400 ACO Q-Slot recessed cover and frame	520	520	1700	10	67.5



ACO Qmax® 150, 225 and 350 access chamber with D 400 ACO Q-Slot recessed cover and frame.

ACO Qmax® 150, 225 and 350 outlet/inlet chamber with D 400 ACO Q-Slot recessed cover and frame.

ACO Qmax® 150, 225 and 350 outlet/inlet/silt chamber with D 400 ACO Q-Slot recessed cover and frame.

- 1 150, 225 & 350 channel connection
- 2 110mm PVC-U inlet connection
- 3 160mm PVC-U, 200mm, 225mm and 300mm twinwall or clay outlet connection

Maximum outlet capacity (assuming water level to the crown of the channel bore)

160mm	200mm	225mm	300mm
45 l/s	71 l/s	90 l/s	159 l/s

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 550



ACO Qmax® 550

ACO Qmax® 550



The ACO Qmax® 550 channel is manufactured from PE which is lightweight, chemically resistant and extremely robust. Its ovoid High-Flow bore, sealed push fit channel connections and unique patented inlet design ensure efficient drainage even at low hydraulic flows and promote self cleansing. Installation rates are maximised and the product is fully integrated within the pavement detail providing long term dependable performance. The increased hydraulic capacity of the ACO Qmax® 550 channel makes it ideal for larger catchments and can eliminate the need for additional carrier drains and pipework.

ACO Qmax® 550 channels are available with the following components:

- Outlet, closing and blanking end caps
- Qmax 550-700 step connector
- Access and silt chambers
- Installation edge rail protectors
- Q-Brake Vortex flow controls

550

Unit size



Hydraulic capacity

8400m²*

Catchment area

0.1544m³/m

Attenuation capacity



Access/silt chambers



Q-Slot cover and frame

*Example run based on 100m length laid level at 50mm/hr rainfall

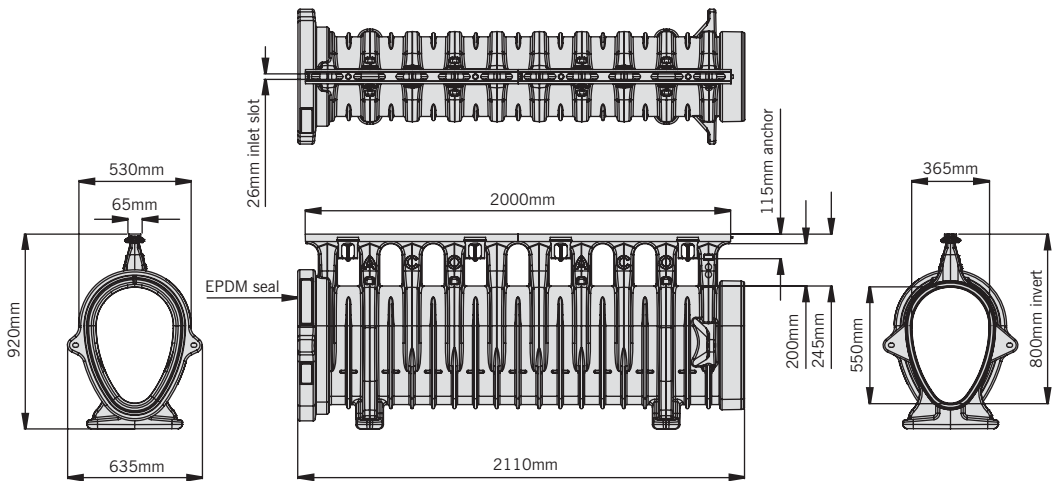
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ACO Qmax® 550

ACO Qmax® 550 with ACO Q-Flow ductile iron edge rail

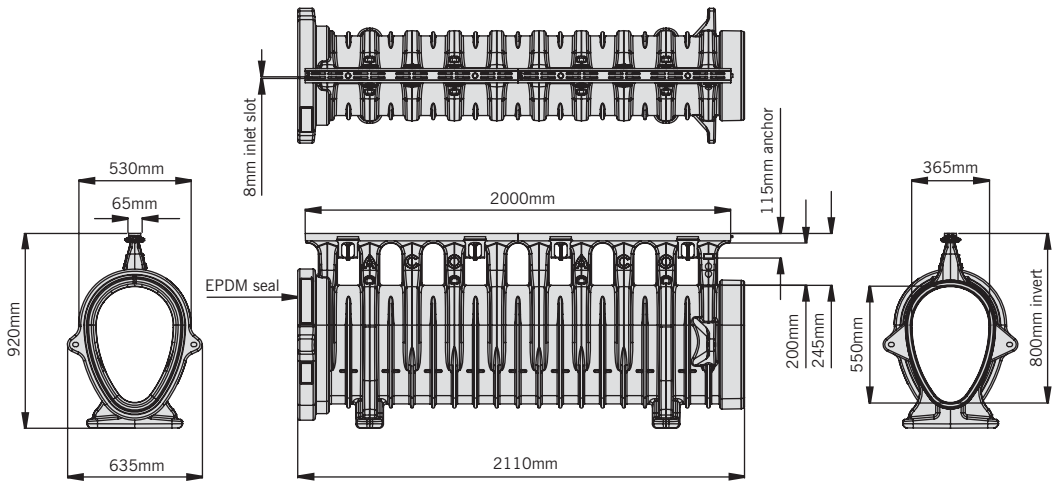
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32820	ACO Qmax® 550 channel assembly complete with ACO Q-Flow ductile iron edge rail	2000	635	920	26	44



ACO Qmax® 550 with ACO Q-Flow ductile iron edge rail

ACO Qmax® 550 with ACO Q-Guard ductile iron edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32821	ACO Qmax® 550 channel assembly complete with ACO Q-Guard ductile iron edge rail	2000	635	920	2 x 8	45



ACO Qmax® 550 with ACO Q-Guard ductile iron edge rail

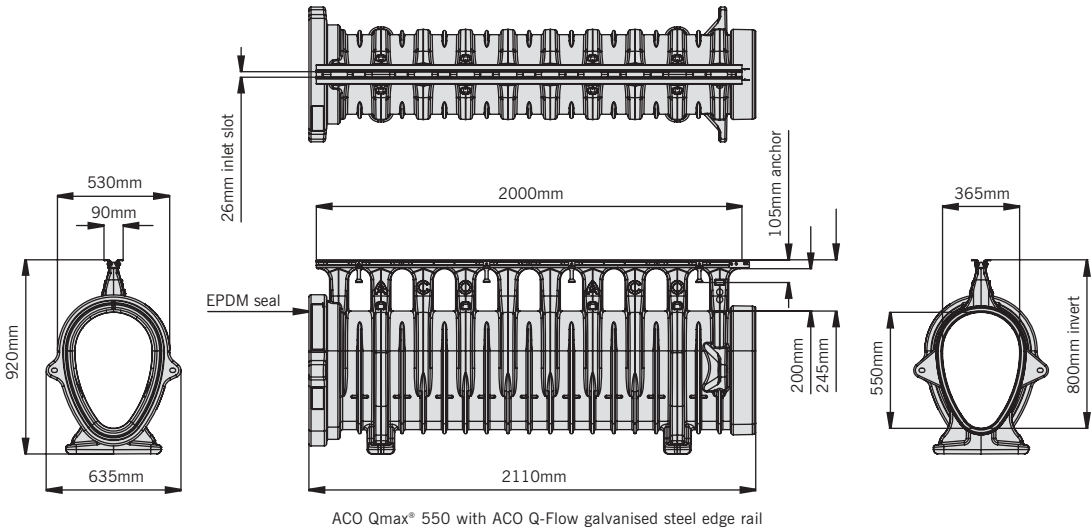
Note: For details regarding the access/silt chambers for use with this system please refer to page 53.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 550

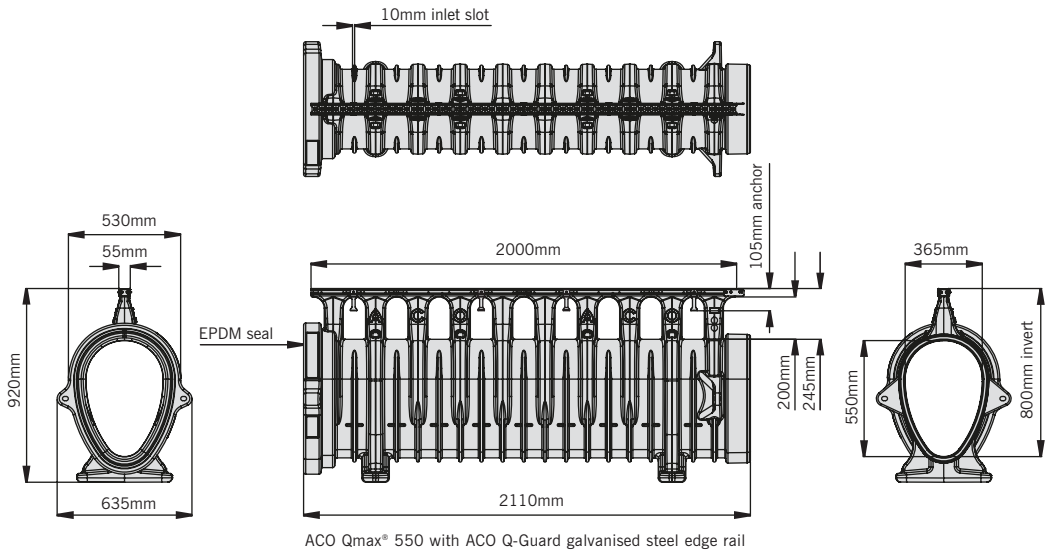
ACO Qmax® 550 with ACO Q-Flow galvanised steel edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32822	ACO Qmax® 550 channel assembly complete with ACO Q-Flow galvanised steel edge rail	2000	635	920	26	35.6



ACO Qmax® 550 with ACO Q-Guard galvanised steel edge rail

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32823	ACO Qmax® 550 channel assembly complete with ACO Q-Guard galvanised steel edge rail	2000	635	920	10	33.1



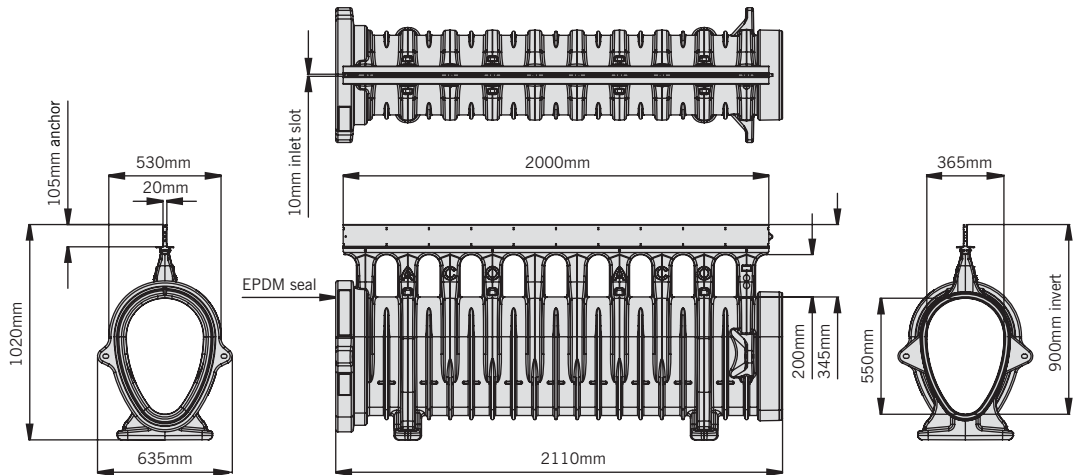
Note: For details regarding the access/silt chambers for use with this system please refer to page 53.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 550

ACO Qmax® 550 with ACO Q-Slot galvanised steel edge rail

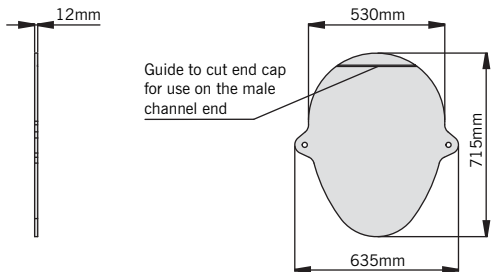
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Slot width (mm)	Weight (kg)
32824	ACO Qmax® 550 channel assembly complete with ACO Q-Slot galvanised steel edge rail	2000	635	1020	10	40.7



ACO Qmax® 550 with ACO Q-Slot galvanised steel edge rail

ACO Qmax® 550 closing end cap

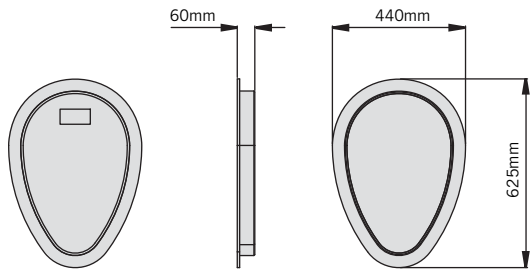
Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32825	ACO Qmax® 550 closing end cap	635	12	715	3.5



ACO Qmax® 550 closing end cap

ACO Qmax® 550 blanking end cap

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32886	ACO Qmax® 550 blanking end cap	440	60	625	2.1



ACO Qmax® 550 blanking end cap

ACO Qmax® 550 blanking end cap has the following functions:

- ▶ Enables cut channels to be capped off if cut to length during installation
- ▶ Simple fitting

Installation instructions supplied

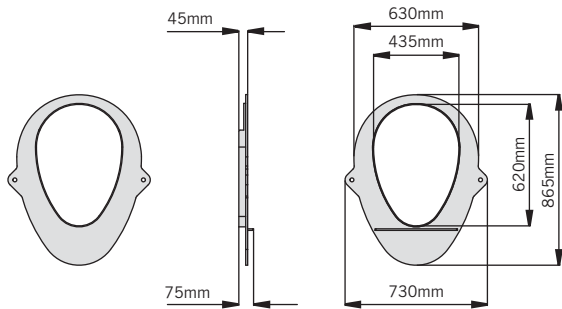
Note: For details regarding the access/silt chambers for use with this system please refer to page 53.

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 550

ACO Qmax® 550 to 700 step connector

Product code	Description	Length (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32882	ACO Qmax® 550 to 700 step connector (M to F)	730	75	865	2.5



ACO Qmax® 550 to 700 step connector

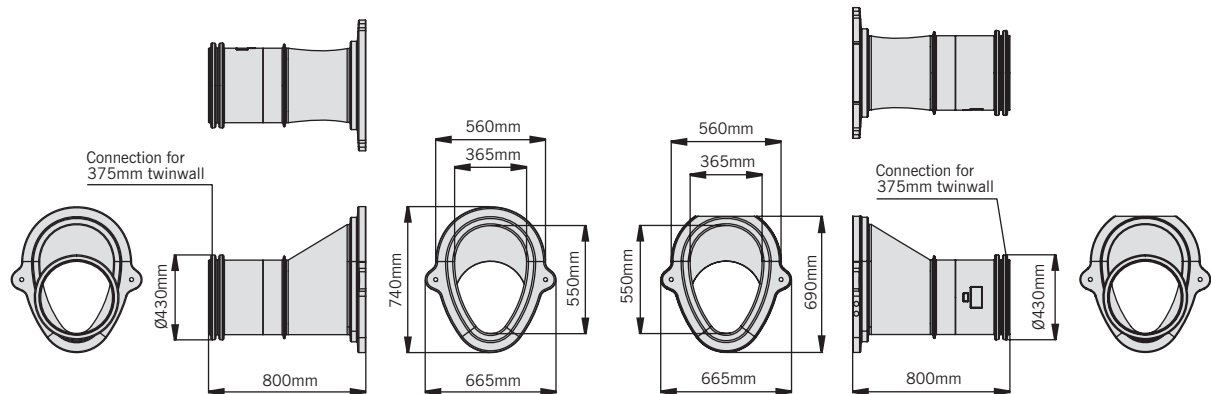
ACO Qmax® 550 to 700 step connector has the following functions:

- ▶ Enables step fall installations of ACO Qmax® 550 and ACO Qmax® 700 channels
- ▶ For use between ACO Qmax® 550 male and ACO Qmax® 700 female channel connections
- ▶ Simple fitting

Installation instructions supplied

ACO Qmax® 550 chamber connectors

Product code	Description	Weight (kg)
32826	ACO Qmax® 550 chamber connector assembly (pair)	11.8



ACO Qmax® 550 female end chamber connector

ACO Qmax® 550 male end chamber connector

ACO Qmax® ductile iron edge rail protector

Product code	Description	Length (m)	Width overall (mm)	Depth overall (mm)	Weight (kg)
32854	ACO Qmax® ductile iron edge rail protector 15.25m roll	15.25	65	1.5	5.0

ACO Qmax® ductile iron edge rail protector has the following functions:

- ▶ Used to cover and protect rails from debris during installation
- ▶ Simple fitting
- ▶ Can be reused

These products are subject to weight and dimensional tolerances. The dimensions shown on this page are for guidance purposes only.

ACO Qmax® 550 hydraulic performance tables

Hydraulic capacities

The table opposite shows the maximum capacity of the unit, assuming uniform lateral inflow to. The capacity will depend on the length of unit to the outlet and on any slope along the unit.

Q (l/s) is the maximum total flow that the channel can carry.

q (l/s/m) is the maximum possible lateral inflow.

A (m²) is the maximum area that can be drained and will depend on the design rainfall intensity chosen. The tabulated areas are for a rainfall intensity of 50mm/h (0.014 l/s/m²).

At other rainfall intensities, the area can be determined by proportion, e.g. at 75mm/h, the maximum area drained will be the tabulated area x 50/75.

ACO Qmax® 550 channels

Slope	0%			0.5%			1%		
Length to Outlet (m)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)	Q (l/s)	q (l/s/m)	A (m ²)
50	127.5	2.55	9180	190.0	3.80	13680	235.0	4.70	16920
100	117.2	1.17	8440	204.9	2.05	14750	260.0	2.60	18720
200	100.8	0.50	7260	220.0	1.10	15840	286.0	1.43	20592
300	86.1	0.29	6200	226.7	0.76	16320	300.0	1.00	21600
400	78.6	0.20	5660	231.5	0.58	16670	308.1	0.77	22180
500	73.3	0.15	5280	235.0	0.47	16920	313.5	0.63	22570
600	69.4	0.12	5000	237.2	0.40	17080	317.5	0.53	22860
700	67.5	0.10	4860	238.8	0.34	17190	319.4	0.46	23000
800	65.6	0.08	4723	240.0	0.30	17280	320.1	0.40	23050
900	62.2	0.07	4480	240.0	0.27	17280	320.1	0.36	23050
1000	60.0	0.06	4320	240.0	0.24	17280	320.1	0.32	23050

ACO Water Management Design Services Team

Please contact the ACO Water Management Design Services Team on 01462 816666 for advice on channels with non-uniform inflow, or channels receiving point inflows at the end or at intermediate locations. The ACO Water Management Design Services Team will be pleased to assist with any technical queries, scheme designs or parts schedules.

Designing a drainage system

An example design method is provided on page 56 to help determine your drainage requirements.

This example will enable you to use the hydraulic performance tables on this page.

ACO Qmax® 700



ACO Qmax® 700

ACO Qmax® 700



The ACO Qmax® 700 channel is manufactured from PE which is lightweight, chemically resistant and extremely robust. Its ovoid High-Flow bore, sealed push fit channel connections and unique patented inlet design ensure efficient drainage even at low hydraulic flows and promote self cleansing. Installation rates are maximised and the product is fully integrated within the pavement detail providing long term dependable performance. The increased hydraulic capacity of the ACO Qmax® 700 channel makes it ideal for larger catchments and can eliminate the need for additional carrier drains and pipework.

ACO Qmax® 700 channels are available with the following components:

- Outlet, closing and blanking end caps
- Qmax 700-900 step connector
- Access and silt chambers
- Installation edge rail protectors
- Q-Brake Vortex flow controls

700

Unit size



Hydraulic capacity

16600m²*

Catchment area

0.2501m³/m

Attenuation capacity



Access/silt chambers



Q-Slot cover and frame

*Example run based on 100m length laid level at 50mm/hr rainfall

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