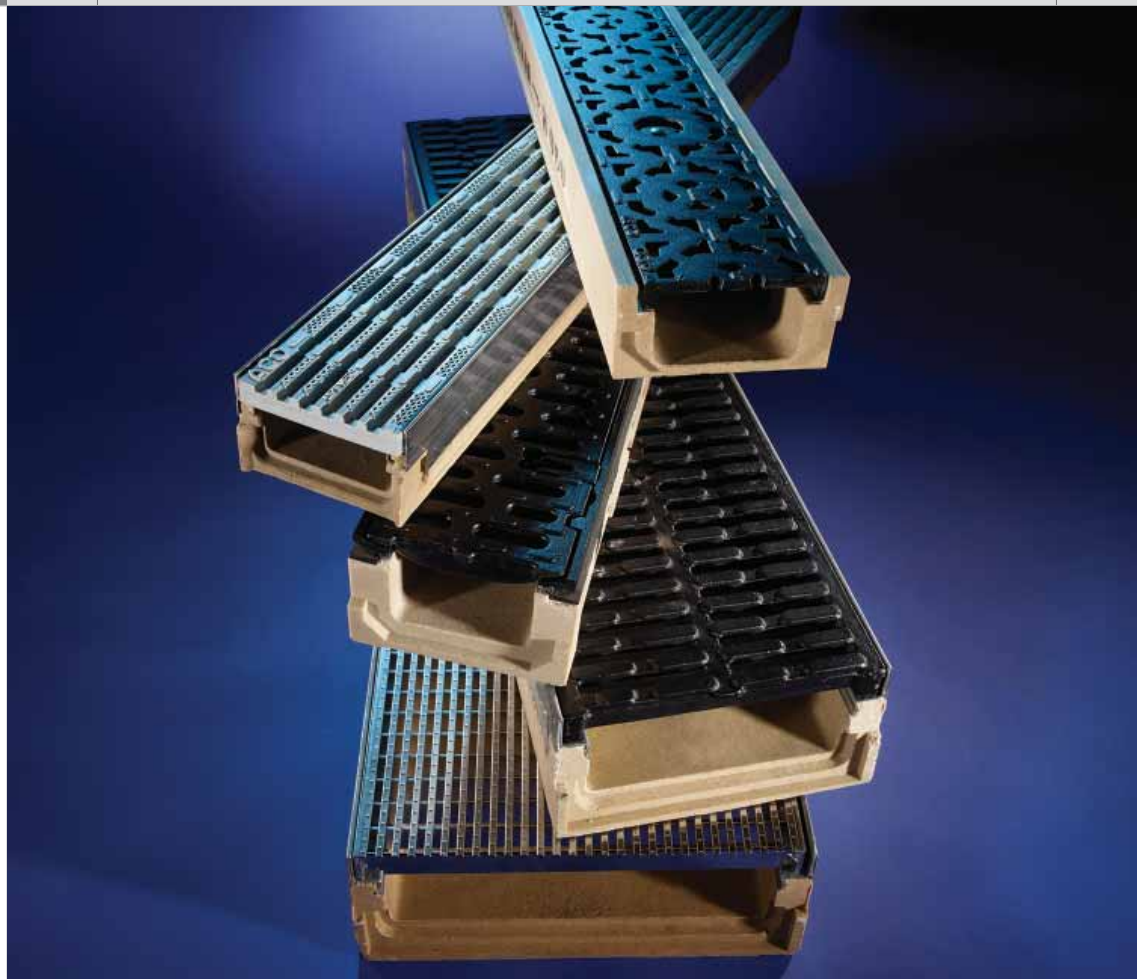


Commercial Trench  
Drains



## ACO DRAIN

### *SlabDrain Leaflet*

**Introduction to the shallow channel SlabDrain Line**

**H80/H100 - 4" internal width, polymer edge channels**

**H100K/H100SK - 4" internal width, metallic edge channels**

**H200K/H200SK - 8" internal width, metallic edge channels**

**H300K/H300SK - 12" internal width, metallic edge channels**



## ACO DRAIN

ACO Drain is the market leading modular trench drain system and is ideal for commercial applications varying from gas stations to airports.

ACO Drain systems consist of factory manufactured modular channel units made from either corrosion resistant polymer concrete or fiberglass, together with grates from a variety of materials for all loading applications. ACO Drain systems are available in 2", 4", 8" and 12" internal widths, and are available with a built-in slope for up to 130 ft (40 meters) of continuous slope.

The ACO Drain product line is segmented into different product types – dependent on use.

### 1. Standard Products

*KlassikDrain*  
*PowerDrain*

### 2. Problem Solvers

*FlowDrain*  
*SlabDrain*  
*Brickslot*  
*MembraneDrain*  
*MiniKlassik*  
*ChemDrain*



## SlabDrain

The SlabDrain product line is a shallow invert trench drain system ideal for applications where site depth restrictions are of concern. Available with three different edge details: non-metallic polymer concrete edge - H series; galvanized or stainless steel edge rail - HK series; ductile iron edge rail - HSK series. Each system comes with a choice of grates up to a maximum EN 1433 Load Class F (90 ton loading).

SlabDrain is available in 4" (H80/H100/H100K/H100SK), 8" (H200K/H200SK) and 12" (H300K/H300SK) internal width systems and features one of ACO's patented boltless locking systems to secure grates. H80/H100/H100K/H200K & H300K have single point lockings (QuickLok). H100SK, H200SK & H300SK are multiple point lockings (PowerLok) for extra grate security.

For applications requiring increased corrosion resistance, all polymer concrete parts can be produced using a Vinylester resin, providing a significantly higher chemical resistance. Refer to the full ACO Drain Technical Handbook or contact your nearest ACO sales office for details.

### Typical applications

- Restricted depth applications
- Parking decks
- Elevated slabs
- Animal welfare centers
- Boarding kennels
- Retro-fit
- Threshold applications



## Product overview - SlabDrain

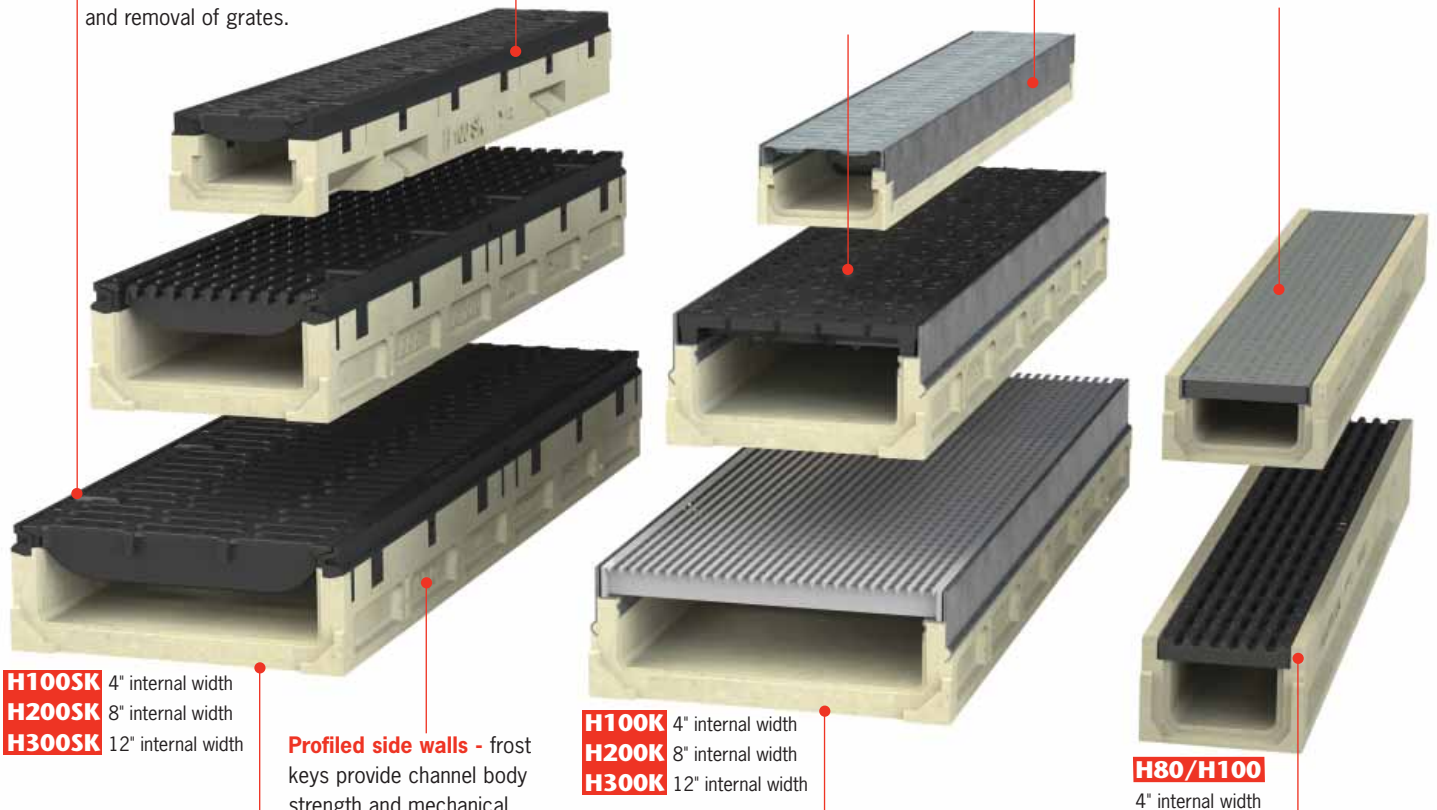
**H100SK/H200SK/H300SK - Integrally cast-in ductile iron edge rail** provides maximum strength and protection for channel body.

**H100SK/H200SK/H300SK Ductile iron grates** - heavy duty ductile iron grates to Load Class F (90 tons). **PowerLok** - is a patented, boltless locking system that provides quick fitting and removal of grates.

**H100K/H200K/H300K - Integrally cast-in galvanized steel edge rail** provides additional strength and protects channel body from damage. (Stainless steel edge rail also available).

**QuickLok on H80/H100 and H100K/H200K/H300K** - patented, boltless locking system provides quick fitting and removal of grates. Helps reduce installation/maintenance time and cost.

**Wide choice of grates** in various materials, styles and slot configurations (including ADA-compliant). **H80/H100** from Load Class A to Load Class C (25 tons). **H100K/H200K/H300K** from Load Class A to Load Class E (60 tons).



**H100SK** 4" internal width  
**H200SK** 8" internal width  
**H300SK** 12" internal width

**Profiled side walls** - frost keys provide channel body strength and mechanical keying to concrete surround.

**H100K** 4" internal width  
**H200K** 8" internal width  
**H300K** 12" internal width

**H80/H100**  
4" internal width

**Interconnecting end profiles** allow easy and effective joining of channels. **SF Sealant Groove** - a groove is cast into the ends of every channel. The combined groove this creates allows for a positive bead of appropriate flexible sealant to be inserted at joints.

**H80/H100 Polymer concrete edge** - ideal for situations where metals cannot be used. Product is also used for the base of MembraneDrain.

**Bottom drill-outs** are included on all channels to allow vertical evacuation of the system at any point in the run. Drill-outs sized for:  
4" pipes - H80/H100/H100K/H100SK,  
4 & 6" pipes - H200K/H200SK  
6 & 8" pipes - H300K/H300SK




## Typical system layout - H & HK series

Removable  
grates 

Neutral  
channels 

Closing cap 

Bottom knockout  
H80/H100 - 4"  
H100K - 4"  
H200K - 4" & 6"  
H300K - 6" & 8" 

Parts table	H100 - 4" internal width		
	Part No	Invert	Weight
		in <sup>1</sup>	Lbs
H80 Neutral channel - 39.37" (1m)	00985	2.56	20.0
H100 Neutral channel - 39.37" (1m)	00549	3.25	25.0
H80 Closing cap	05935	-	1.0
H100 Closing cap	05939	-	1.0
Debris strainer for 4" bottom KO	93488	-	0.2
Grate removal tool	01318	-	0.3

**Notes:**  
1. For overall channel depth add nominal 0.6" to invert depth

Parts table	H100K - 4" internal width				H200K - 8" internal width				H300K - 12" internal width			
	Part No		Invert	Weight	Part No		Invert	Weight	Part No		Invert	Weight
	Galv	S/S	in <sup>1</sup>	Lbs	Galv	S/S	in <sup>2</sup>	Lbs	Galv	S/S	in <sup>2</sup>	Lbs
Neutral channel - 39.37" (1m)	95365	95373	2.56	16.0	93454	93455	3.94	57.4	93464	93465	3.94	71.6
Closing end cap	98462	98471	-	1.0	93458	93459	-	1.0	93468	93469	-	1.4
Debris strainer for 4" bottom KO	93488		-	0.2	93488		-	0.2	-		-	-
Grate removal tool	01318		-	0.3	01318		-	0.3	01318		-	0.3

**Notes:**  
1. H100K overall channel depth add nominal 0.6" to invert depth  
2. H200K/H300K overall channel depth add nominal 1.2" to invert depth






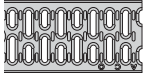
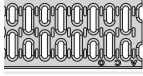
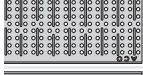

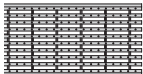

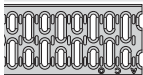
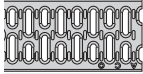
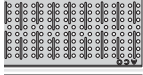
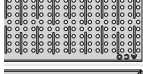







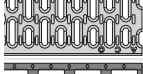

## QuickLok- boltless locking system








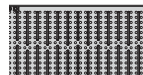



















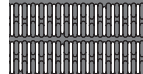










































Comprised of a glass nylon stud fitted into the grate and a removable Quicklok bar in the channel, the QuickLok system locks the grate to the channel by aligning the stub over the bar and applying pressure until they 'snap' together. With no loose bolts or bars, QuickLok provides a highly secure boltless lock that is still easy to take apart for maintenance and cleaning. This saves time and money during installation.



<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>FIT LOCKING BAR</b>	<b>FIT GRATE</b>	<b>GRATE REMOVAL</b>			
Locate locking bar in recesses, rotate and use hammer to tap securely into place. Serrated ends grip in recess.	K200/K300 channels use plastic safety clip to hold in place.	To install grate, align QuickLok stud directly over locking bar.	Push down or stand on grate until it clicks into position.	To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.	To remove bar, insert screwdriver into hole at end of bar and lever back serrated end; rotate bar free.

## QuickLok grates

H80/H100/H100K grates		Length mm	Part No	Wgt lbs			
LOAD CLASS A - EN 1433 - 3,500lbs - 70psi							
	Type 494Q Black plastic longitudinal	500	97393	1.8	✓	✗	✓
	Type 495Q Grey plastic longitudinal	500	97395	1.8	✓	✗	✓
	Type 420Q Galv slotted	1000 500	31530 31531	5.9 3.0	✗	✗	✓
	Type 450Q Stainless slotted	1000 500	31630 31631	5.9 3.0	✗	✗	✓
	Type 451Q Stainless perforated	1000 500	98883 98892	6.3 3.2	✓	✓	✓
	Type 410Q Galv perforated	1000 500	98866 98879	6.3 3.2	✓	✓	✓
LOAD CLASS B - EN 1433 - 28,000lbs - 581psi							
	Type 447Q Stainless longitudinal	1000 500	98971 98970	8.0 4.0	✓	✓	✓
LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi							
	Type 492Q Composite slotted	500	04780	3.5	✗	✓	✓
	Type 425Q Galv slotted	1000 500	31540 61541	8.8 4.4	✗	✗	✓
	Type 455Q Stainless slotted	1000 500	31640 31641	8.8 4.4	✗	✗	✓
	Type 411Q Galv perforated	1000 500	98905 98918	11.3 5.7	✓	✓	✓
	Type 465Q Stainless perforated	1000 500	98927 98934	11.3 5.7	✓	✓	✓
	Type 405Q Galv mesh	1000 500	98707 98714	7.8 3.9	✓	✗	✓
	Type 430Q Stainless mesh	1000 500	98683 98695	8.0 4.0	✗	✗	✓
	Type 480Q Iron wave	500	97118	10.0	✓	✓	✓
	Type 481Q Iron decorative	500	97120	9.0	✓	✗	✓
	Type 479Q Iron Mosaic	500	97116	10.0	✓	✗	✓
LOAD CLASS E - EN 1433 - 135,000lbs - 2,788psi							
	Type 461Q Iron slotted	500	96752	10.2	✗	✗	✓
	Type 435Q Galv slotted	1000 500	31550 31551	13.7 6.8	✗	✗	✓
	Type 490Q Stainless slotted	1000 500	31650 31651	13.7 6.8	✗	✗	✓
	Type 478Q Iron longitudinal	500	03314	12.8	✓	✓	✓


H200K grates		Length mm	Part No	Wgt lbs			
LOAD CLASS B - EN 1433 - 28,000lbs - 484psi							
	Type 647Q	1000	98973	17.7			
	Stainless longitudinal	500	98993	9.0			
LOAD CLASS C - EN 1433 - 56,000lbs - 968psi							
	Type 611Q	1000	98962	21.0			
	Galv perforated	500	98961	10.5			
	Type 665Q	1000	98960	21.0			
	S/S perforated	500	98959	10.5			
	Type 605Q	1000	10352	31.7			
	Galv mesh	500	10353	16.0			
	Type 630Q	1000	16032	31.7			
	Stainless mesh	500	16033	16.0			
	Type 680Q	500	93955	28.0			
	Type 681Q	500	93956	27.0			
	Type 679Q	500	93957	34.0			
LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi							
	Type 661Q	500	10351	30.8			
	Type 678Q	500	95038	22.0			
H300K grates		Length mm	Part No	Wgt lbs			
LOAD CLASS A - EN 1433 - 3,500lbs - 58psi							
	Type 847Q	1000	98975	28.6			
	Stainless longitudinal	500	98995	14.5			
LOAD CLASS C - EN 1433 - 56,000lbs - 968psi							
	Type 811Q	1000	98967	30.9			
	Galv perforated	500	98966	15.0			
	Type 865Q	1000	98968	30.9			
	S/S perforated	500	98969	15.0			
	Type 805Q	500	10433	29.5			
	Galv mesh						
	Type 830Q						
	Type 880Q	500	93951	48.0			
	Iron wave						
	Type 881Q	500	93950	47.0			
	Type 879Q	500	93958	47.3			
	Type 878Q	500	93901	35.0			
LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi							
	Type 861Q	500	10431	48.0			

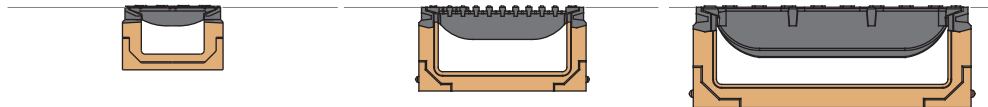
## Typical system layout - HSK series

Removable  
grates 

Neutral  
channels 

Closing cap 

Bottom knockout  
H100SK - 4"  
H200SK - 4" & 6"  
H300SK - 6" & 8" 






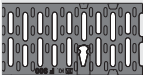




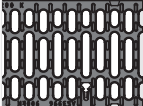
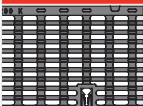
### Parts table




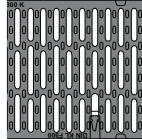
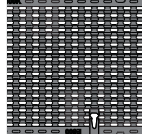
	H100SK - 4" internal width				H200SK - 8" internal width				H300SK - 12" internal width			
	Part No		Invert	Weight	Part No		Invert	Weight	Part No		Invert	Weight
	Slotted	ADA	in <sup>1</sup>	Lbs	Slotted	ADA	in <sup>1</sup>	Lbs <sup>2</sup>	Slotted	ADA	in <sup>1</sup>	Lbs <sup>2</sup>
Neutral channel - 39.37" (1m)	93408	93411	2.56	69.5	93456	93457	3.94	122.4	93466	93467	3.94	182.3
Closing end cap	97334	-	-	1.0	93460	-	-	1.0	93470	-	-	1.4
Debris strainer for 4" bottom KO	93488	-	-	0.2	93488	-	-	0.2	-	-	-	-
Grate removal tool	01318	-	-	0.3	01318	-	-	0.3	01318	-	-	0.3

#### Notes:

- For overall channel depth; H100SK add nominal 1.0" to invert depth; H200SK/H300SK overall channel depth add nominal 1.2" to invert depth
- ADA weights - add following to 1m channel; S100K - 2.6lbs, S200K - minus 7.5lbs, S300K - 28.0lbs.

## PowerLok Grates

H100SK grates		Length mm	Wgt lbs			
LOAD CLASS F - EN 1433 - 200,000lbs - 4,182psi						
	Iron slotted	500	12.3	×	×	✓
	Iron longitudinal	500	13.6	✓	×	✓
H200SK grates		Length mm	Wgt lbs			
LOAD CLASS F - EN 1433 - 200,000lbs - 3,485psi						
	Iron slotted	500	30.8	✓	×	✓
LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi						
	Iron longitudinal	500	26.4	✓	×	✓

H300SK grates		Length mm	Wgt lbs			
LOAD CLASS F - EN 1433 - 200,000lbs - 3,485psi						
	Iron slotted	500	50.0	×	×	✓
LOAD CLASS E - EN 1433 - 135,000lbs - 2,323psi						
	Iron longitudinal	500	64.0	✓	×	✓

PowerLok - boltless locking system



To open PowerLok, insert tool between rail and PowerLok device.



Rotate tool 90°; PowerLok device should push away from rail.



To close, place hook part of tool into 'V' and push towards rail.

PowerLok - Safety clip



For areas of security or safety concerns, the PowerLok safety clip provides a visual alert of PowerLok lockings.



The safety clip push-fits next to the locked PowerLok device. Safety clip sits flush with grate surface and grate cannot be unlocked.

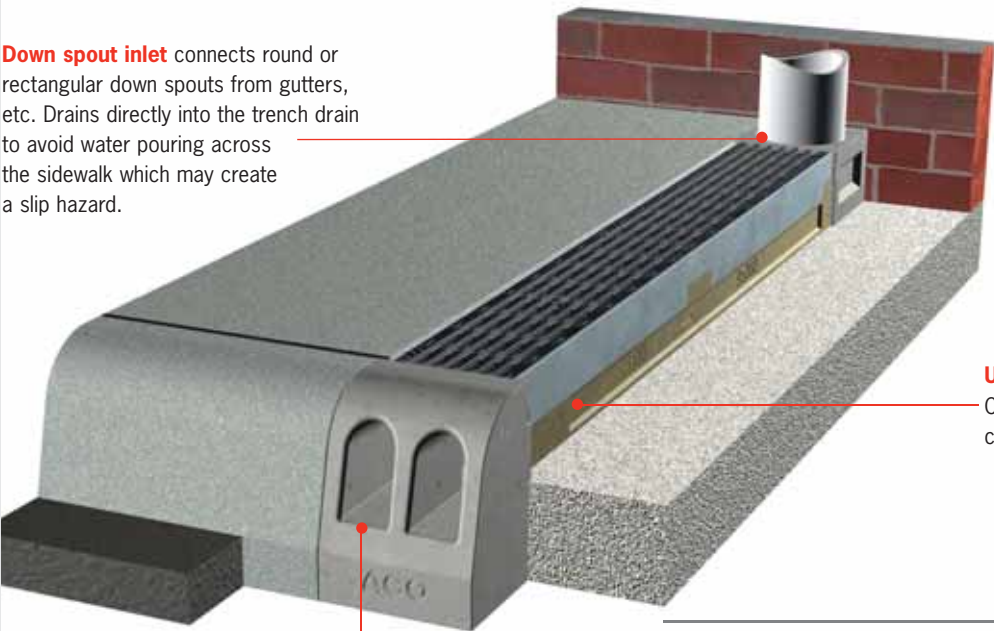


To open PowerLok device, the safety clip must be removed. If no red block visible the locking is not guaranteed, providing a visual alert that grates may not be locked.

Cross Sidewalk Drain

Cross sidewalk drains (CSD) are designed to carry discharge from rainwater down spouts safely and discreetly across the sidewalk to the curb. This eliminates slip hazards and inconvenience to pedestrians of water streaming across the sidewalk.

**Down spout inlet** connects round or rectangular down spouts from gutters, etc. Drains directly into the trench drain to avoid water pouring across the sidewalk which may create a slip hazard.



**Used with H100K channels -** CSD accessories fit with H100K channels. See page 4.

**Curb outlet** fits directly onto the end of the trench. Type 6 curb profile matches most common curbs. Outlet directs water to the road, where it drains into the street outlet.

Parts table

Part No	Invert	Weight	
	Depth	in <sup>2</sup>	Lbs
Curb outlet - Type 6 profile	96924	3.50	12.7
Down spout inlet	96932	3.20	6.0



## Other ACO DRAIN systems

### **KlassikDrain**

The world's most widely used general purpose 4", 8" or 12" internal width trench drain system with wide range of grates.

### **PowerDrain**

An extra heavy duty trench drain system available in 4", 8" or 12" internal widths.

### **FlowDrain**

An 8" internal width system manufactured from corrosion resistant fiberglass, ideal for long straight runs in concrete slabs.

### **Brickslot**

A discreet drainage solution for brick or stone pavers.

### **MiniKlassik**

A 2" internal width neutral system for high profile, aesthetic areas.

### **MembraneDrain**

A two part system for use in non-habitable suspended slabs where a membrane is used.

### **ChemDrain**

All polymer concrete parts are available in corrosion resistant Vinyl ester polymer concrete for more aggressive environments.

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