# **ACO Water Management:**

### Urban + Landscape

# Uniclass EPIC J3413 CI/SfB (52.5)

#### ACO CivicDrain®

- Provides an effective drainage solution for light to medium duty traffic applications
- Strong and robust channel design
- ✓ Heelguard<sup>™</sup> grating suitable for pedestrian traffic
- Galvanised steel channel edge rail for improved strength and bonding
- Manufactured from Vienite<sup>®</sup>, ACO's high strength recycled polymer concrete
- Channel design improves flow velocity, promotes self cleansing
- Outlet available by gullies, sumps or channel knockout
- ✓ Unique ACO Drainlock™ grating fixing reduces blockage and improves hydraulic capacity
- CE marked and fully certified to Load Class C 250 BS EN 1433:2002







#### ACO CivicDrain®

# High quality, high strength general purpose channel drainage system

ACO CivicDrain® is a lightweight channel drainage system for light to medium duty traffic applications.

Manufactured from Vienite®, ACO's high strength recycled polymer concrete, the 1m channel has a 100mm wide bore and is available in three channel depths to create a stepped system where required.

The channel unit comes complete with black composite Heelguard™ gratings and protective galvanised steel edge rails.

Accessories available include a sump and gully unit to provide connection to underground drainage networks, foul air trap and multifunctional end cap for closing or outlet connections to Ø110mm PVC-U pipes.

#### Typical applications

- Domestic landscaping
- Public landscaping
- Car parks





## ACO CivicDrain®

System Overview

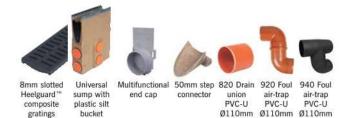


C 250 Public parking areas, service stations (cars) and slow-moving light commercial vehicles

#### **Features**



#### ACO CIVICDRAIN ACCESSORIES



#### ACO CivicDrain® channel assemblies

Product code	Description	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
25010	CivicDrain® 0.0 channel with black composite Heelguard™ grating	1000	135	150	14.4
25011	CivicDrain* 10.0 channel with black composite Heelguard™ grating	1000	135	200	18.8
25012	CivicDrain* 20.0 channel with black composite Heelguard™ grating	1000	135	250	22.5

#### ACO CivicDrain® accessories

Product code	Description	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
12680	522DL black composite Heelguard grating	500	123	21	1.2
12601	50mm step connector	100	75	50	0.4
23404	Multifunctional end cap	-	135	75/300	0.16
23410	Universal sump with plastic silt bucket*	500	135	635	32.8
0056	820 Drain union PVC-U Ø110mm	100	Ø110	-	0.1
2640	920 Foul air-trap PVC-U Ø110mm		Ø110		0.5
7931	940 Roddable foul air trap MDPE Ø110mm		Ø110		0.6
23415	Drainlock™ security locking assembly	is .			0.1
23416	Drainlock™ security key	-	-		0.01
1367	Drainlock™ grating lifting tool 835	6	já.	=	0.1

<sup>\*</sup>Grating must be purchased separately

#### ACO CIVICDRAIN INSTALLATION



Dig trench 400mm wide, see chart opposite for channel and sump depths\*. Mark finishing height with fixed line 3mm below final surface. Lay 150mm (min.) bed of concrete.



Lay channels starting from outlet/sump, ensuring joints connect by lowering units horizontally. Fit end caps to end channel. For watertight joints\*\*, use a suitable sealant (contact ACO for further advice).



Knock out pre-formed outlet from the inside (marked with hammer symbol) and trim edges with a chisel. Fit outlet connector and sump. Position sump and outlet channel on concrete bed, fit PVC-U union/trap to drainage pipework.



With gratings fitted, haunch around channels/sumps with concrete. Final surface to be 3mm above grating. Bricks/paviours should be laid in mortar for lateral stability.

#### \*Installation depths for channel and sump

Product code	Depth for channel (mm)	Depth for sump (mm)
25010	300	785
25011	350	785
25012	400	785

<sup>\*\*</sup>ACO CivicDrain® channels are tested to confirm compliance with the watertightness requirements of BS EN 1433 when filled with water to the top of the channel bore.

#### ACO Technologies plc

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