

ACO Infrastructure

Monoblock & KerbDrain



Monolithic Trench and Kerb drain solutions

Heavy-duty systems made from durable polymer concrete for high quality drainage

ACO's drainage systems consist of factory manufactured channel units made from corrosion resistant durable materials designed to withstand the most challenging environments. This makes them ideal for diverse New Zealand climates and durable in all seasons.

ACO Infrastructure is the market leading brand for trench drainage in transportation infrastructure applications and comprises a number of systems, including the high efficient monolithic Monoblock and KerbDrain system. These are one-piece units with non-removable grates.



ACO. creating
the future of drainage





ACO Monoblock®

ACO Monoblock is designed to address the drainage demands of heavy duty areas in fast moving traffic.

It combines the benefits of **Polycrete®** Channels¹ with a robust one-piece construction, removing the concern of components vibrating loose when frequently trafficked by high speed vehicles.

The system is ideal for use in applications where drainage cannot be positioned outside the flow of traffic.

ACO Monoblock is also suitable in high security applications, as there is no risk of components being removed during service or unauthorised access to the underlying channel.

¹ Polycrete® refers to ACO products made from polymer concrete.

Typical Applications

- Airport pavements
- Container ports
- Industrial parks
- Distribution centres
- Highways & motorways
- Correctional facilities



ACO Monoblock® PD

Recommended for traffic areas with pedestrian crossing, available in widths of 100 mm, 150 mm and 200 mm. This system has a CE approval certificate for load classes up to D400.



ACO Monoblock® RD

Suitable for places with heavy vehicle traffic, available in widths of 100 mm, 150 mm, 200 mm and 300 mm. This system has an EC type-approval certificate for load classes up to G900.

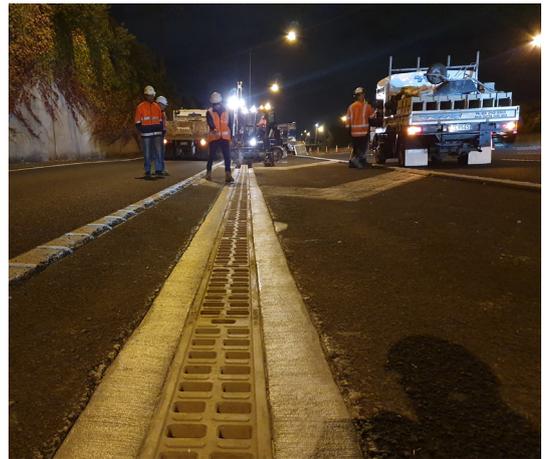
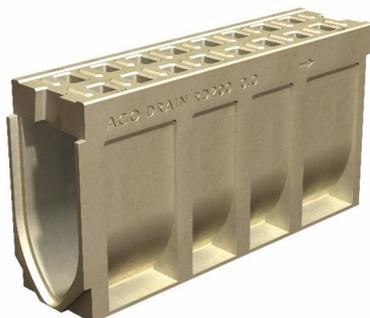


Reference

AT SH1 Road Upgrade, Auckland

During the SH1 road upgrade in February 2020 the first ACO Monoblock trench channel drain was successfully installed. In collaboration with ASM Auckland System Management and the local contractor TWC, ACO supplied a heavy duty drainage solution that fulfilled the requirements of the highly trafficked highway. With its high capacity, ACO's Monoblock RD200V 20.0 minimised the risk of standing water on the road without getting blocked. Due to the monolithic characteristic, there was no risk of loose components being a hazard for drivers and maintenance workers that need to enter the frequently trafficked area to fix the channel. Overall the product was chosen for its durability and ease of maintenance access.

Referring to Mr. Mitchell from ASM, he said: "The Monoblock system looks to be the way of the future for helping to manage surface flooding risks, improve customer and operator safety and increase the efficiency and resilience of our Auckland motorway system."



ACO Monoblock RD200



ACO Monoblock RD200



ACO KerbDrain

ACO KerbDrain is a compact linear drainage system designed to transform kerbs into continuous capture inlet structures with minimal excavation. Compared to kerb inlet pit and pipe systems, ACO KerbDrain is less likely to interfere or clash with underground pipes or cables.

The system combines the benefits of **Polycrete**[®] Channels¹ with a robust one-piece construction. ACO KerbDrain is a cast channel and kerb system, with inlets for continuous drainage. The underlying channel transfers captured water directly into the stormwater system.

¹ Polycrete[®] refers to ACO products made from polymer concrete.

Typical Applications

- Highways & motorways
- Intersections
- Carparks
- Streetscapes
- Housing developments
- City centres



ACO KerbDrain QK

ACO KerbDrain QK is a modular drainage system designed for streetscapes and carpark applications where level access for pedestrians and vehicles is required.



ACO KerbDrain KDHB

ACO Shallow KerbDrain[®] is for use in applications with restricted construction depths. The product is ideal for applications such as highways, car parking and elevated roads.



Reference

AT Ayr Street Intersection, Auckland

In May 2020 Ayr Street, a new raised table was installed to slow down traffic and provide a safe crossing for pedestrians.

ACO has been involved with this AT (Auckland Transport) project from concept; supplying a specific drain to collect the runoff from the raised table to the sides of the street.

Made from durable polymer concrete, ACO's KerbDrain KDHB200 was installed for its high capacity and hard-wearing characteristics. The lateral inlets of the KerbDrain ensure the channel does not get blocked by debris or foliage. This also simplifies the cleaning process. Using an acceptable angle between the product parts, a curve following the course of the street and footpath was created. Thus leaving an appealing and tidy finish.

Again, a great collaboration between ACO New Zealand and Auckland Transport!



ACO KerbDrain KDHB200



ACO KerbDrain KDHB200



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ACO Limited pursues a policy of continuous product development and reserves the right to amend specifications without notice

ACO Limited

Sales Hotline
Phone 0800 448 080
Fax + 64 (0) 9 255 5114
E-Mail: info@aconz.co.nz

Head Office
Unit F, 6 Percival Gull Place
Mangere, Auckland 2022
New Zealand

www.aconz.co.nz

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