

Practical experience:

## ACO Surface Water Management

2025  
Rolleston - NZ



### Advantages

- StormBrixx® SD provides a 97% void ratio and minimizes excavation volume.
- Brick and cross bonding stacking for optimal stability.
- Low flow, drain down and silt management features.
- Allows temporary stormwater storage before releasing it slowly into the ground or stormwater network.

## Durrell Way, Rolleston - NZ

### ACO infiltration system as part of complete surface water management solution

The areas around Durrell Way, Rolleston suffered historical issues of flooding on a particular low lying area causing flooding for local residents, leaving them unable to get out of their home during heavy rain events.

Previously a sump had been installed to remove stormwater and performed well in low rainfall events but larger rainfall intensity events cause the sump to fail due to the amount of flow coming down the streets catchment area.

After recent floods, the Council took proactive steps to manage surface flooding in flood-prone areas by installing ACO KerbDrain to continuously capture run-off and direct it into ACO StormBrixx® underground stormwater management systems.

ACO StormBrixx® is designed to store and slowly release excess rainwater during heavy rainfall events. By improving the drainage capacity below ground, the pressure on existing infrastructure is eased

and helps prevent pooling or localised flooding on streets, parks, and other public spaces.

The result is reduced disruption for residents, protection of property, and improved road safety during and after storms.

### Highway stormwater management improvements



ACO. we care for water





ACO StormBrixx® tanks hold stormwater underground to release into the ground as soon as the natural water table begins to drop.



Flooding before ACO StormBrixx® was installed.

**ACO StormBrixx® is a smart solution that adds extra capacity underground without the need for major surface changes.**

The system works by creating an underground tank made of interlocking plastic units that temporarily hold rainwater before releasing it slowly into the ground or stormwater network, helping to prevent sudden overloads.

The installation contractors found several practical on-site benefits; “One of the key advantages of the StormBrixx® system is the shallower trench depth, usually around 1.2 to 1.5 metres, which means we don’t need trench shields. That improves safety for our crew, speeds up installation, and helps reduce overall project costs.”

## Information at a glance

**Project:** Durrell Way, Rolleston

**Investor:** Christchurch City Council & Selwyn District Council

**Building contractor:** HEB Construction

**Construction year:** 2025

**ACO Products:**

- ACO StormBrixx® 900 SD

**ACO Limited**

35 Te Tiki Road  
Mangere, Auckland 2022  
New Zealand  
Phone +64 9 815 9500  
Fax +64 9 255 5114  
info@aconz.co.nz  
[www.aconz.co.nz](http://www.aconz.co.nz)