

CASE STUDY

Aquabox Chosen for Infiltration at Sudbury Housing Complex

Sudbury, ON

ENGINEER

EXP, Sudbury, ON

CONTRACTOR

Garson Pipe Contractors Ltd, Garson, ON

INSTALLATION DATE

May 2025

PRODUCTS

100 Aquabox Full Module

4 Aquabox Cube Module

6 m (20') of 300 mm (12") N-12®

300 mm (12") Nyloplast® Inline Drain

300 mm (12") Nyloplast Adapter

300 mm (12") Nyloplast Frame & Grate

CHALLENGE

New residential housing was constructed in Sudbury, and the project required a stormwater drainage system. The development consisted of four connected rental units, the parking area needed to incorporate underground stormwater storage beneath the lot.

SOLUTION

EXP, the project's engineer, selected an Aquabox modular underground system to manage the site's stormwater requirements. The system stores runoff and allows it to gradually infiltrate into the surrounding soil.

The design incorporated 100 full Aquabox modules and four Aquabox cube modules. A 300 mm (12") Nyloplast Inline Drain was connected to the Aquabox system to provide inspection access, and a 6 m (20') length of 300 mm (12") N-12 pipe was installed to convey stormwater from the manhole to the storage system.



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Advanced Drainage Systems' representatives were on site prior to and during the systems' installation as this was the first Canadian Aquabox install. The project's success has led to more Aquabox systems being ordered in Ontario.

PRODUCT DESCRIPTIONS

Aquabox systems are engineered for use beneath parking lots and paved areas to help maximize land utilization. Manufactured from recycled polypropylene enhanced with a glass additive, the modular design allows for customized configurations to fit complex site conditions. The stackable design allows for compact on-site storage, ease of installation and is built to meet HS-20 load class standards.

Nyloplast Engineered Surface Drainage products provide dependable, project-specific solution for stormwater management. The heavy-duty PVC structures and ductile iron grates deliver the strength and durability needed to meet site demands. With a range of structures from 200-900 mm (8"-36"), Nyloplast is tailored to project requirements. Seamless compatibility with plastic underground storm drain systems allow for smooth transitions between pipe sizes and materials, as well as adjustments in elevation and direction, supporting efficient installation and long-term performance.

N-12 Dual Wall Pipe has a corrugated exterior and smooth interior wall that provide exceptional hydraulics, strength and corrosion resistance. N-12 is available in 100-1500 mm (4"-60") diameters and in 6 m (20') lengths to provide faster installation and lower installation costs. The integrated inline bell design allows for easy installation and eliminates chipping and cracking that is common to concrete bells. N-12 addresses subsurface and stormwater gravity-flow drainage needs.



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