

Index

- 1. Reference Standards
- 2. Drawings
 - 2.1. COERCO Flatbed Leach Drain-SL Setup
 - 2.2. Flo-Cell Drainage Cell 30mm
 - 2.3. Flo-Pipe Drainage Pipe
- 3. Datasheets
 - 3.1. Flo-Cell 30mm
 - 3.2. Flo-Pipe
- 4. Installation Guideline
 - 4.1. Excavation
 - 4.2. Installation
- 5. Warranty



1. Conforming Standards

Design Area Sizing: AS/NZS1547:2012 L4

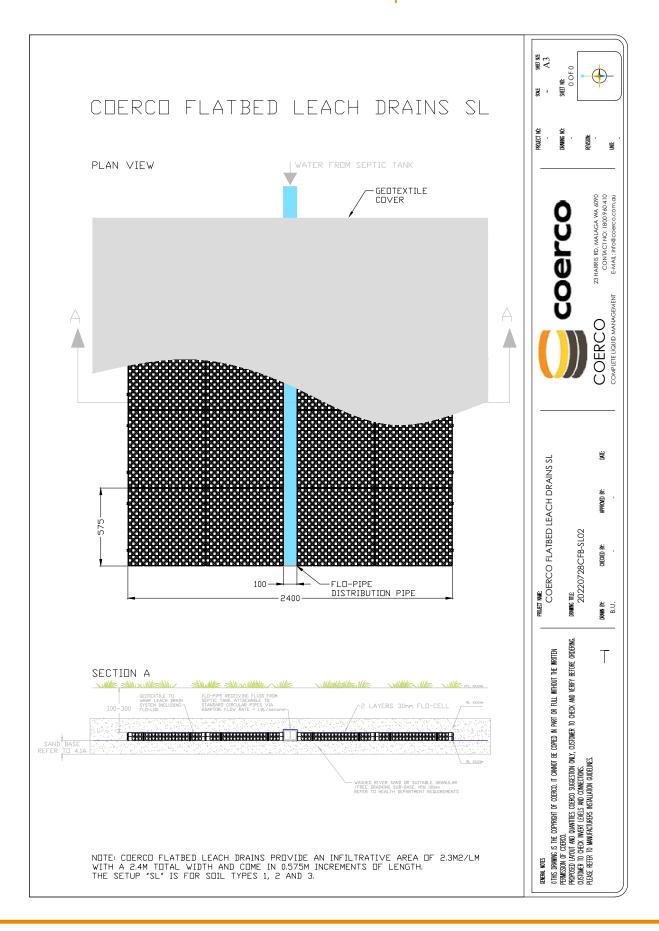
Effluent Loading: AS/NZS1547:2012 L6

Distribution Line: AS/NZS1547:2012 L6.1.2



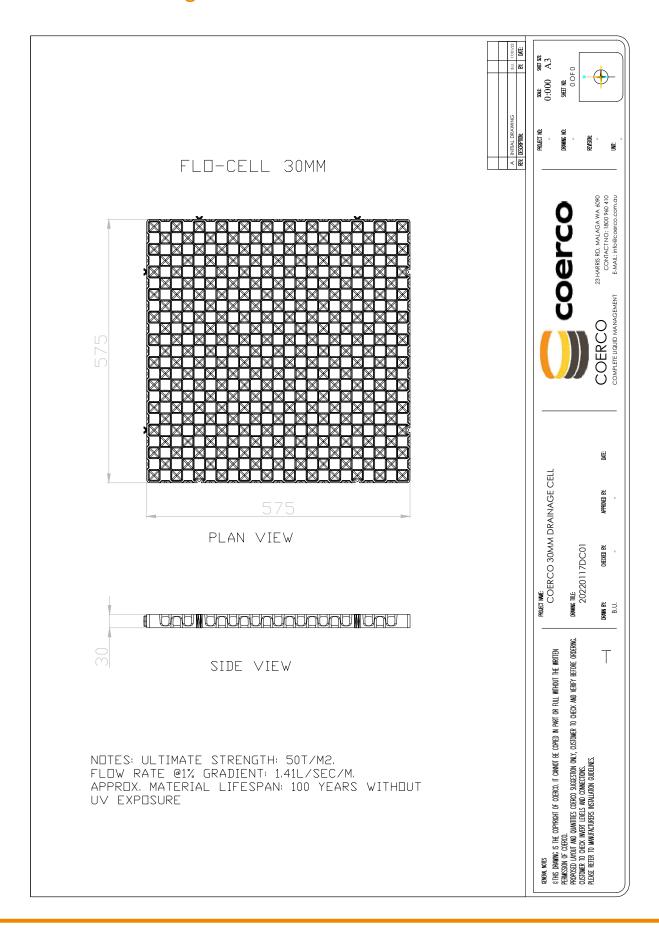
2. Drawings

2.1. COERCO Flatbed Leach Drain-SL Setup



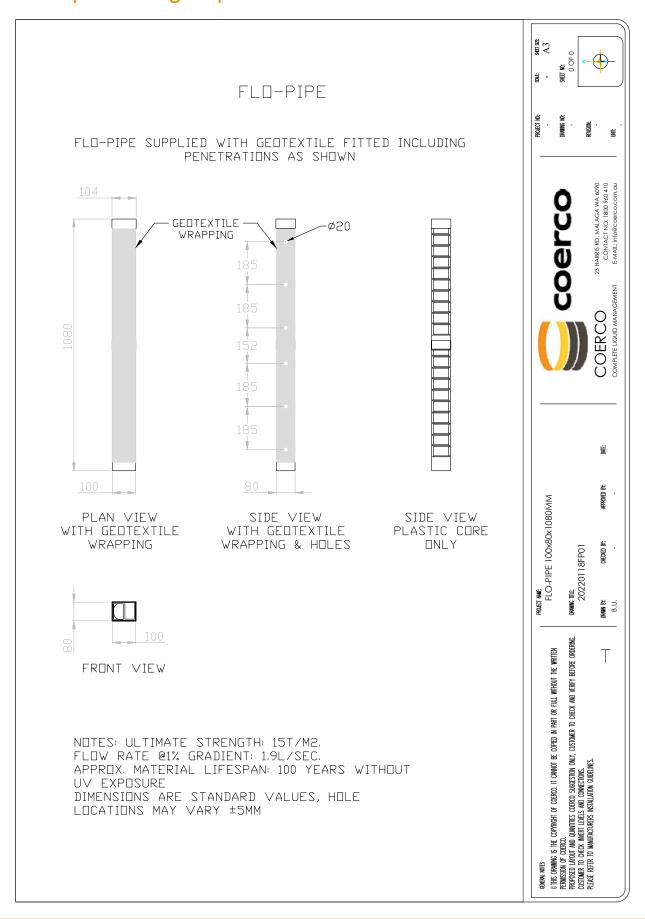
2. Drawings

2.2. Flo-Cell Drainage Cell 30mm



2. Drawings

2.3. Flo-Pipe Drainage Pipe



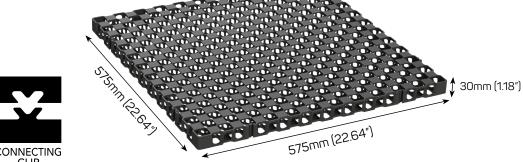
3. Datasheets

3.1. Flo-Cell 30mm



PRODUCT SPECIFICATION

FLO-CELL® NEO 30MM





Part Number	80033		
Part Size	(H) 30mm (W) 575mm (L) 575mm (H) 1.18" (W) 22.64" (L) 22.64"		
Part Weight	650 grams		
Weight Per Square Metre	1.95 kg		
Ultimate Strength (RECYCLED PP)	50 tonnes/SQM (100 PSI)		
Ultimate Strength (VIRGIN PP)	80 tonnes/SQM (114 PSI)		
Flow Rate	1.41 Litres/Sec/m @ 1% gradient		
Pieces Per Square Metre	3		
Volume Void	90%		
Surface Void	70%		
Material	85% Recycled Polypropylene 15% Propriety Selected Materials		
Colour	Black		
Chemical & Bilogical Resistance	Unaffected by molds, algae, soil-bourne chemicals, bacteria and bitumen.		
Service Temperature	-10° C - 70° C (14 F° - 158 F°)		
Approximate Material Lifespan	100 years + with no ultra violet exposure		

^{*}Ultimate strength till failure (not yield)

Note: Atlantis® product specifications are updated on a regular basis. Please contact Atlantis® technical department for the latest data sheet available



ATLANTIS CORPORATION AUSTRALIA PTY LTD

Phone: (02) 9417 8344 (02) 9417 8311

info@atlantiscorp.com.au

www.atlantiscorp.com.au Web:

3. Datasheets

3.2. Flo-Pipe



Technical Product Specification Flo-Pipe

Date: 14/03/2016

Atlantis Corporation reserves the right to change its products specifications at any time. It is the responsibility of the specifier and purchaser to ensure that the product specifications used for design and procurement proposes are current and consistent with the products used in each instance.

Product Type: Integrally Formed Strip Filter Pipe

Polymer: 85% Recycled Polypropylene, 15% Proprietary Selected Materials

Recommended Applications: Trench Drainage, Sub-soil Drainage,

Wall & Foundation Drainage, Sub-surface Drainage,

Podium Landscape, Sports Fields

Product Properties

Unconfined Compressive Strength

Compressive Strength Maximum 15 tonnes/m² (21.34 psi)

Dimension-Void

 $\begin{array}{lll} \mbox{Width} & 100\mbox{mm (4 in)} \\ \mbox{Length} & 560\mbox{mm (22.05 in)} * \mbox{\it Customizable} \\ \mbox{Height} & 80\mbox{mm (3.15 in)} \\ \mbox{Void Ratio} & > 80\mbox{-}90 \% \end{array}$

Hydraulic Properties

Manning Value 'n' 0.085 (0.076 – 0.089)
Permeability 12 m/s (7-26 m/s)





Easy Connection to Standard Stormwater Fittings

www.atlantiscorp.com.au

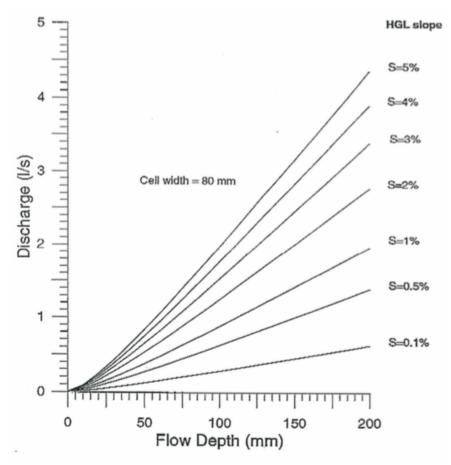


3. Datasheets

3.2. Flo-Pipe



Water Flow			
	H.G = 0.1% (0.1V:100H)	H.G = 0.5% (0.5V:100H)	H.G = 1% (1V:100H)
Flow Depth (mm)	200	200	200
Flow Rate (l/min)	36	80	114
	7.0	7.0	7.0
Flow Depth (in)	7.9	7.9	7.9
Flow Rate (gal/min)	9.5	21.1	30.1



Flow rates were tested and evaluated by the Water Research Laboratory, UNSW, on the basis of Manning's 'n' = 0.085.

Standard and conservative values, they may vary. Sizes slightly vary, \pm 4mm

3/19-21 Gibbes Street, Chatswood NSW 2067 Australia www.atlantiscorp.com.au



4. Installation Guideline

4.1. Excavation

Ensure that the level bed is prepared to max. ±20mm tolerance with existing soil or clean sand layer underneath, layer height per below chart.

Soil Type	Sand Base Thickness
1. Sand and gravels	
2. Sandy loams	
3. Loams	
4. Clay loams	Min 100mm of clean sand underneath
5. Light clays	Min 100mm of clean sand underneath
6. Medium to heavy clay	Min 100mm of clean sand underneath

Table 4.1A: Sand Base Thickness

4.2. Installation

4.2.1. Flo-Pipe Distribution Pipe

After preparing the bed as explained in 4.1, Lay distribution pipes centered in the trench, with the pipe orientation 80mm high and 100mm wide. Join pipes ensuring they finish at max.1000mm from the end of the leach drain. NB: Seal end of pipe by using a plug or with other measures.

4.2.2. Base Layer - Flo-Cell

Lay the drainage cells by clipping or abutting to form a 1150mm wide continuous blanket on either side of the distribution pipe.

4.2.3. Second Layer - Flo-Cell

Lay a second layer of drainage cells by clipping or abutting to form a 1150mm wide continuous blanket on either side of the distribution pipe

4.2.4. Geotextile

Cover the top and sides of the setup with infiltration grade geotextile supplied (140gsm recommended).

4.2.5. Backfill

The excavated material can be used to carefully backfill.



5. Warranty

Coerco Flatbed Leach Drains supplied by Coerco are guaranteed to be free from defects in material and workmanship for fifteen (15) years from the date of shipment from factory. The obligation of this warranty, statutory or otherwise, is limited to replacement or repair at factory or at a point designated by Coerco, of such part as shall appear to us, upon inspection at such point, to have been defective in material or workmanship.

This warranty does not obligate Coerco to bear the cost of labour or transportation charges in connection with replacement or repair of defective part. No express limited or statutory warranty, other than herein set forth is made or authorised to be made by Coerco.

In no event shall Coerco be liable for consequential damages or contingent liabilities arising out of failure of any Coerco Flatbed Leach Drains or parts thereof to operate properly. Coerco Flatbed Leach Drains must be installed by licensed tradesmen. Failure to do so voids all Warranty.

Notes:		



