

TECHNICAL INFORMATION REFERENCE SHEET

Q-GUARD units have been developed in two specific series.
Refer to the relevant product Technical Manuals for full details.

The Q-GUARD “Q Series” is commonly referred to as a ‘Minor In-ground Gross Pollutant Trap’ and is typically installed in locations or developments where there is an expectation of high urban litter generation.

The Q-GUARD “X Series” is commonly referred to as an ‘Oil & Grit Separator’ and is typically installed in industrial & commercial hardstand applications.



Recommended MUSIC Model Data Values for Q-GUARD™ Units

Description	‘Q’ Series GPT		‘X’ Series Oil & Grit Separator	
	Capture Rate	Data Values (Input,Output)	Capture Rate	Data Values (Input,Output)
Low Flow Bypass	-	0	-	0
High Flow Bypass	Design Treatment Flow Rate Refer: QGUARD Technical Manual Table: 4.3		Design Treatment Flow Rate Refer: QGUARD Technical Manual Table: 4.3	
Total Suspended Solids (TSS) ^{##}	50%	Min (0,0) Max (100,50)	50%	Min (0,0) Max (100,50)
Total Phosphorus (TP) ^{##}	20%	Min (0,0) Max (100,80)	20%	Min (0,0) Max (100,80)
Total Nitrogen (TN) ^{##}	0%	Min (0,0) Max (0,0)	0%	Min (0,0) Max (0,0)
Gross Pollutants (>3mm) (GP) [#]	95%	Min (0,0) Max (100,5)	85%	Min (0,0) Max (100,15)
Hydrocarbons (Free Oils and Greases) [#]	95%	N/A	95%	N/A

Note: [#]Indicators are based on large scale laboratory testing. It is widely accepted by the stormwater industry that catchment characteristics could be vastly different to the controlled environment of a laboratory.

^{##}Indicators are based on qualitative observations of field applications.

Refer to Australian Runoff Quality (2006) for details of Water Sensitive Urban Design objectives for the removal of suspended solids, nutrients and gross pollutants from urban stormwater.

Structural Design

Q-Guard units have been designed according to relevant Australian Standards with a design vehicle load of W7 and a minimum ground bearing capacity of 100kPa assumed.

An exposure classification B1 is assumed in the standard product.

