

Stormwater pits

Issue 1



Precast stormwater pits

Humes manufacture a wide range of precast concrete stormwater pit base units and risers, suitable for junction pits, kerbs and grated inlets.

There are two types of stormwater pits available; modular and custom. Modular (also known as standard) pits come in a range of sizes and have knockouts on all four sides to provide easy installation of pipes. Custom pits come in a range of common footprints, to suit requirements of different authorities and are made to the exact height to suit project requirements.

Precast stormwater pits provide installation contractors with a number of significant benefits*:

- **Custom-made** – Manufactured to meet your design requirements of your stormwater network with exact heights and pipe penetrations.
- **Faster construction** – Precast manufacture reduces on-site construction times by around 75% compared to cast in-situ methods.
- **Cost benefits** – Reduced labour, propping, material storage costs and no on-site formwork.
- **Trafficable** – Designed in accordance with the Australian Standard for Bridge Design AS 5100.5 and SM 1600 traffic loading (other load classes available).
- **Extensive range of sizes** – Meeting local authorities' stormwater network specifications.
- **High quality durable product** – Manufactured using state of the art moulds and manufacturing techniques.

- **Reduced environmental impact** – Precast means less waste, construction noise and clutter on site.
- **In-house design capability** – Our built-for-purpose software generates detailed drawings for manufacturing and installation purposes.
- **Comprehensive support** – A detailed installation guide is available together with a team of experts who can assist with site support if required.
- **Highly versatile** – Fully compatible with Humes extensive range of stormwater pipes, kerb inlet systems and other stormwater drainage products. Custom pits can also be used as junction pits for electricity, gas and communication networks.

For effective stormwater drainage, Humes has an extensive range of concrete pipes and componentry consisting of a variety of pipe diameters, lengths and classes suited for both trench and micro tunnelling. Additionally, a selection of pits, kerb inlets and lintels are available to complement your project.

Humes also offer solutions for stormwater detention and infiltration and harvesting and reuse.

* Some of the benefits apply to custom pits only.

Specifications

Modular pits

Modular pits are available in sizes from 450 mm square to 1200 mm square, to suit a maximum pipe diameter of DN 900. Standard dimensions and masses are shown in Table 1 below.

The modular system includes a range of precast risers and lids to adjust heights and secure the grates.



Figure 1 - Modular pit components

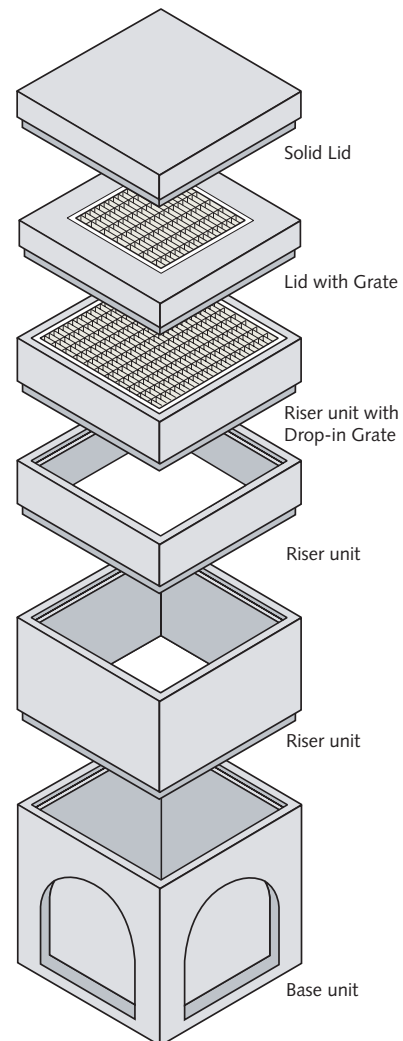


Table 1 – Modular pit masses and dimensions

Internal size Width x breadth x height (mm)	Mass (kg)	Max pipe diameter (mm)	Risers to suit (mm)
450 x 450 x 450	221	225	150, 300
600 x 600 x 600	370	450	150, 300, 600
900 x 600 x 600	540	450	150, 300, 600
900 x 600 x 900	745	450	150, 300, 600
900 x 750 x 600	830	450	
900 x 750 x 900	916	600	
900 x 900 x 600	870	450	150, 300, 600
900 x 900 x 900	930	600	
900 x 900 x 1,200	1,213	600	
1,200 x 1,200 x 1,200	1,900	900	150, 300, 600

Custom pits

Custom pits can be made to suit a wide variety of stormwater drainage network requirements for road construction, newly established residential areas and commercial and industrial developments.

The height of the pits can be adjusted to suit individual depth (invert levels) requirements and can range from 500 mm to 3,750 mm. Common sizes to suit requirements of different transport authorities and local councils are shown in Table 2 below.

Street furniture

Humes offers an extensive range of gullies (inlets and lintels), kerbs and barriers for roadside entry points to meet the needs of local authorities. The range is designed to suit all modern kerb and gutter profiles, and to fit on top of Humes’ range of precast pits.



Top:
Custom pit

Opposite page:
Modular pit

Table 2 – Custom pit common dimensions

Width (mm)	Breadth (mm)	Height (mm)
700	700	Variable up to 3,750
850	675	
1,380	700	
1,540	700	
930	610	
930	710	
930	835	
900	900	
1,050	1,050	
2,100	600	

Note:
Please contact Humes for other sizes.

Contact information

National sales 1300 361 601

humes.com.au

info@humes.com.au

Head Office

18 Little Cribb St
Milton 4064 QLD
Ph: (07) 3364 2800
Fax: (07) 3364 2963

Queensland

Brisbane/Gold Coast

Ph: (07) 3866 7100
Fax: (07) 3866 7101

Rockhampton

Ph: (07) 4924 7900
Fax: (07) 4924 7901

Sunshine Coast

Ph: (07) 5472 9700
Fax: (07) 5472 9711

Toowoomba

Ph: (07) 4694 1420
Fax: (07) 4634 3874

Townsville

Ph: (07) 4758 6000
Fax: (07) 4758 6001

New South Wales

Grafton

Ph: (02) 6644 7666
Fax: (02) 6644 7313

Kempsey

Ph: (02) 6562 6755
Fax: (02) 6562 4235

Newcastle

Ph: (02) 4032 6800
Fax: (02) 4032 6822

Sydney

Ph: (02) 9832 5555
Fax: (02) 9625 5200

Tamworth

Ph: (02) 6763 7300
Fax: (02) 6763 7301

Victoria

Echuca

Ph: (03) 5480 2371
Fax: (03) 5482 3090

Melbourne

Ph: (03) 9360 3888
Fax: (03) 9360 3887

Tasmania

Invermay

Ph: (03) 6335 6300
Fax: (03) 6335 6330

South Australia

Adelaide

Ph: (08) 8168 4544
Fax: (08) 8168 4549

Western Australia

Gnangara

Ph: (08) 9302 8000
Fax: (08) 9309 1625

Perth

Ph: (08) 9351 6999
Fax: (08) 9351 6977

Northern Territory

Darwin

Ph: (08) 8984 1600
Fax: (08) 8984 1614



National sales 1300 361 601

humes.com.au

info@humes.com.au

A Division of Holcim Australia

This publication supersedes all previous literature on this subject. As the specifications and details contained in this publication may change please check with Humes Customer Service for confirmation of current issue. This publication provided general information only and is no substitute for professional engineering advice. No representations or warranty is made regarding the accuracy, completeness or relevance of the information provided. Users must make their own determination as to the suitability of this information for their specific circumstances. Humes accepts no liability for any loss or damage resulting from any reliance on the information provided in this publication. Humes is a registered business name and registered trademark of Holcim (Australia) Pty Ltd (Holcim). "Strength. Performance. Passion." is a trademark of Holcim.

© February 2013 Holcim (Australia) Pty Ltd ABN 87 099 732 297. All rights reserved. This guide or any part of it may not be reproduced without prior written consent of Holcim.