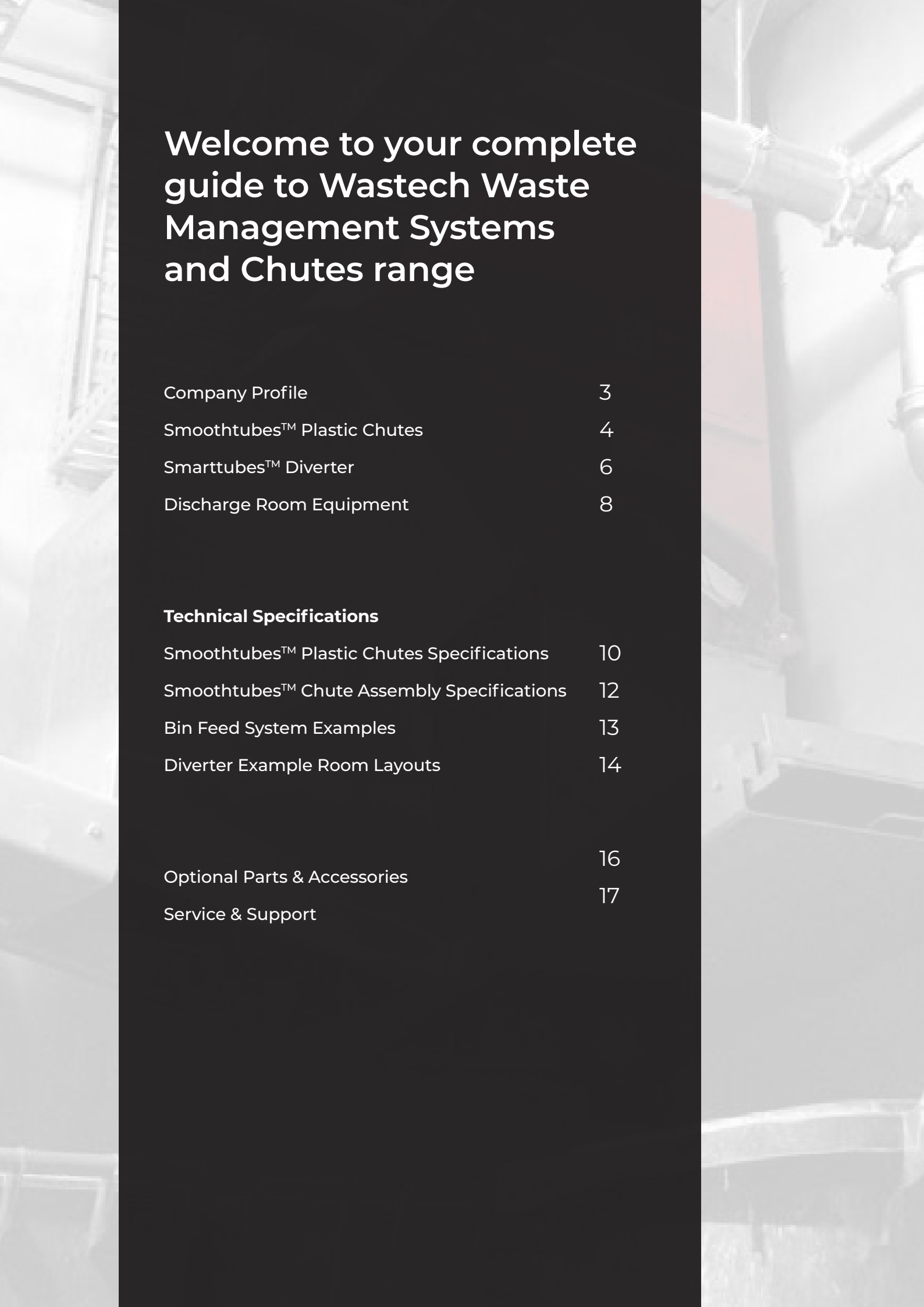


Waste Chute Systems





Welcome to your complete guide to Wastech Waste Management Systems and Chutes range

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About Wastech

30 years of Designing, Developing and Delivering

For over 30 years, Wastech Engineering has been a leader in the waste management and resource recovery industry across Australia and New Zealand, offering best-in-class, technology-enabled solutions and an extensive product range.

Our experienced team of waste management and recycling specialists are committed to delivering industry-leading products and services, while providing exceptional after-sales support tailored to different operational requirements.

We are dedicated to continuous innovation and research that enhances our comprehensive portfolio of waste management solutions. Recognised as a trusted partner for businesses, our considered range of specialised equipment helps to boost efficiencies and reliability, while making an impactful contribution to sustainability initiatives across various sectors.

At Wastech Engineering, customer satisfaction is at the heart of everything we do. We take pride in our reputation that has been built on dependability and innovation, ultimately helping organisations achieve their environmental goals.



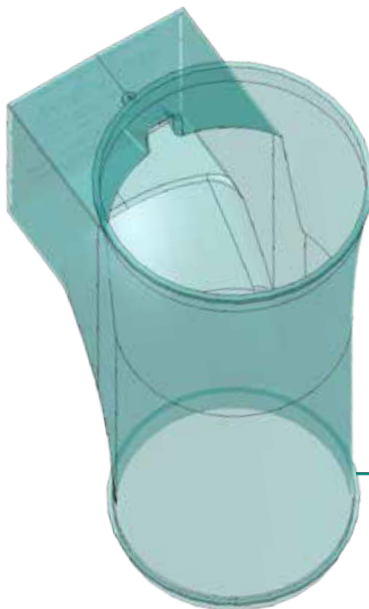
SmoothtubesTM Plastic Chutes

Introducing Wastech's very own super smooth plastic Waste Chute system offering 80% less friction than steel, allowing for quieter and smoother waste disposal, whilst being a more cost effective solution.

Pioneering the design of Australia's first plastic chutes, Wastech's SmoothtubesTM Chutes system offers:

- ✓ Superior industrial grade plastic(LLDPE)
- ✓ Australian designed and developed
- ✓ Superior acoustic properties
- ✓ Made from recycled* Polyethylene
- ✓ Low density, flexible material
- ✓ Offers unrestricted continuous flow
- ✓ Corrosion proof
- ✓ Self cleaning smooth internal surface

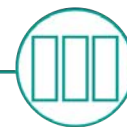
Recommended configuration/installation options are:



Single Chute System



Dual Chute System



Triple Chute System

For more detailed specifications on Single, Dual and Triple chute systems, please refer to page 14.



Innovative Design

The SmoothtubesTM modular design caters for any application without the need to custom build sections. The innovative slip-joint assembly system significantly reduces installation time.

SmoothtubesTM also offer UV and impact resistance while weighing less than 15kg per section.



Builder Friendly

Easy installation by offering:

- In-built block-off panels that seal the chute until installation of the loading doors is complete. This helps to ensure no usage or damage can occur during construction and installation.
- Self supporting modular sections with built in mounts.
- Lightweight for easy handling.



Cleaner & Quieter

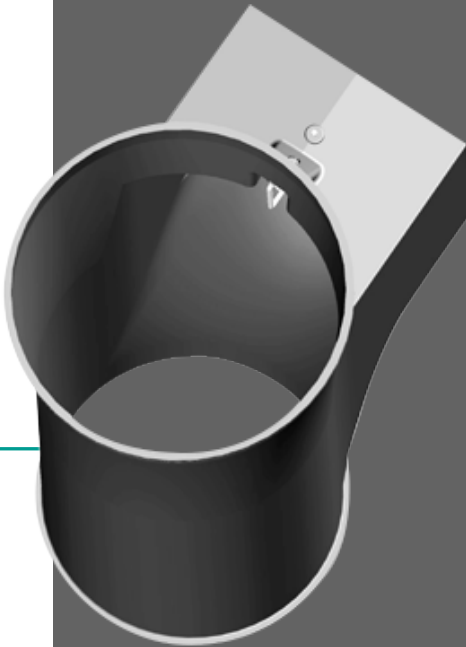
SmoothtubesTM are designed to be cleaner whilst eliminating noise by:

- Offering crevice free joints with no sharp angles eliminating collection of any waste particles.
- Closed cell, non-porous material repelling grime, bacteria, odour and liquid.



Fact!

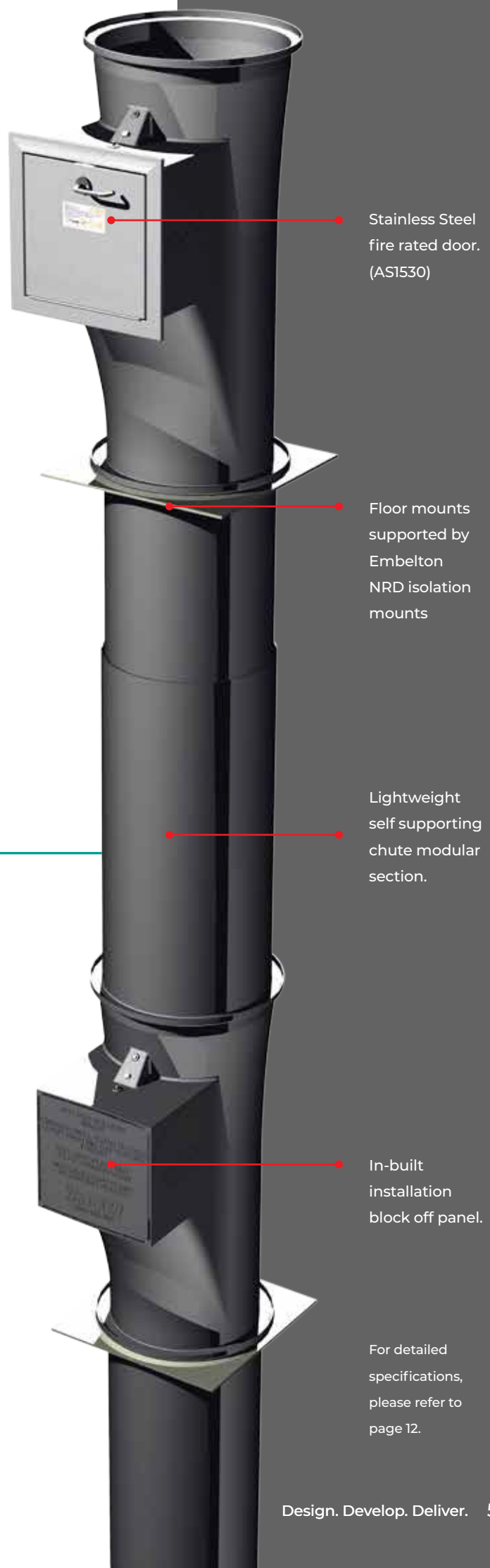
Wastech pioneered the plastic chute system with Smoothtubes[™] and have successfully manufactured, delivered and installed over 2000 waste chute major commercial projects Australia wide!



Contact Us

A large range of options are available including Steel chutes and custom built solutions.

To arrange a detailed discussion, contact a Waste Management consultant today on 1800 465 465.



Stainless Steel fire rated door. (AS1530)

Floor mounts supported by Embelton NRD isolation mounts

Lightweight self supporting chute modular section.

In-built installation block off panel.

For detailed specifications, please refer to page 12.



Waste



Recycling



Linen



Organics

Smoothtubes™ Diverter

A smart, space saving, single chute diverter system for both waste and recycling.

Designed for use with a single chute waste disposal system, the Smarttubes™ diverter provides a simple and efficient method for disposing of multiple waste streams while saving valuable building space.

Smarttubes™ is an intelligent system that is simple to use for residents and building managers alike. The door control panel allows residents to easily select their desired waste stream, while the advanced web-based dial in system allows building managers to control the chute from anywhere within the building through wifi access!



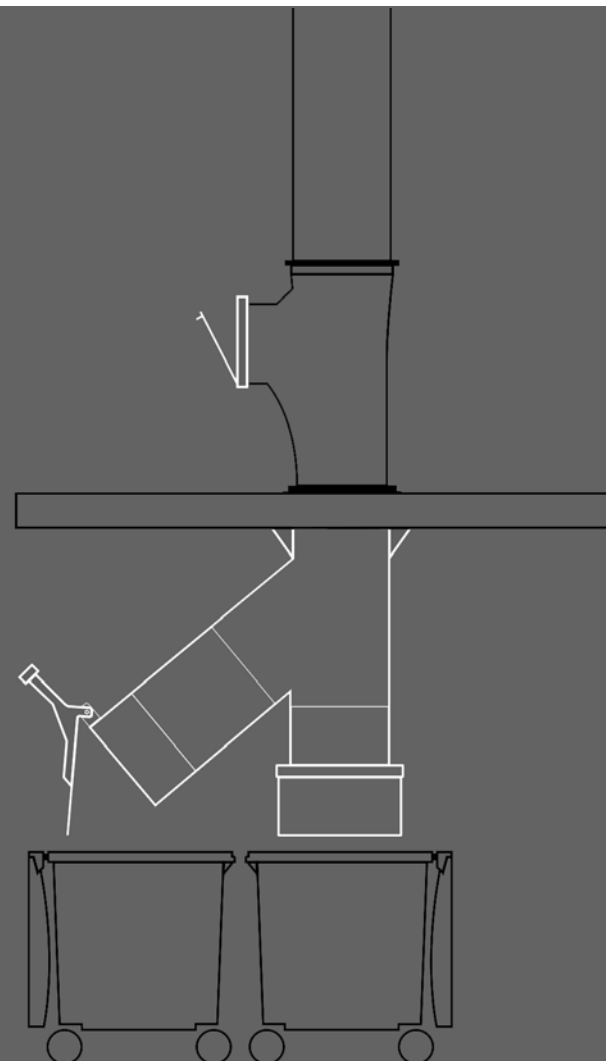
Wifi Dial-In

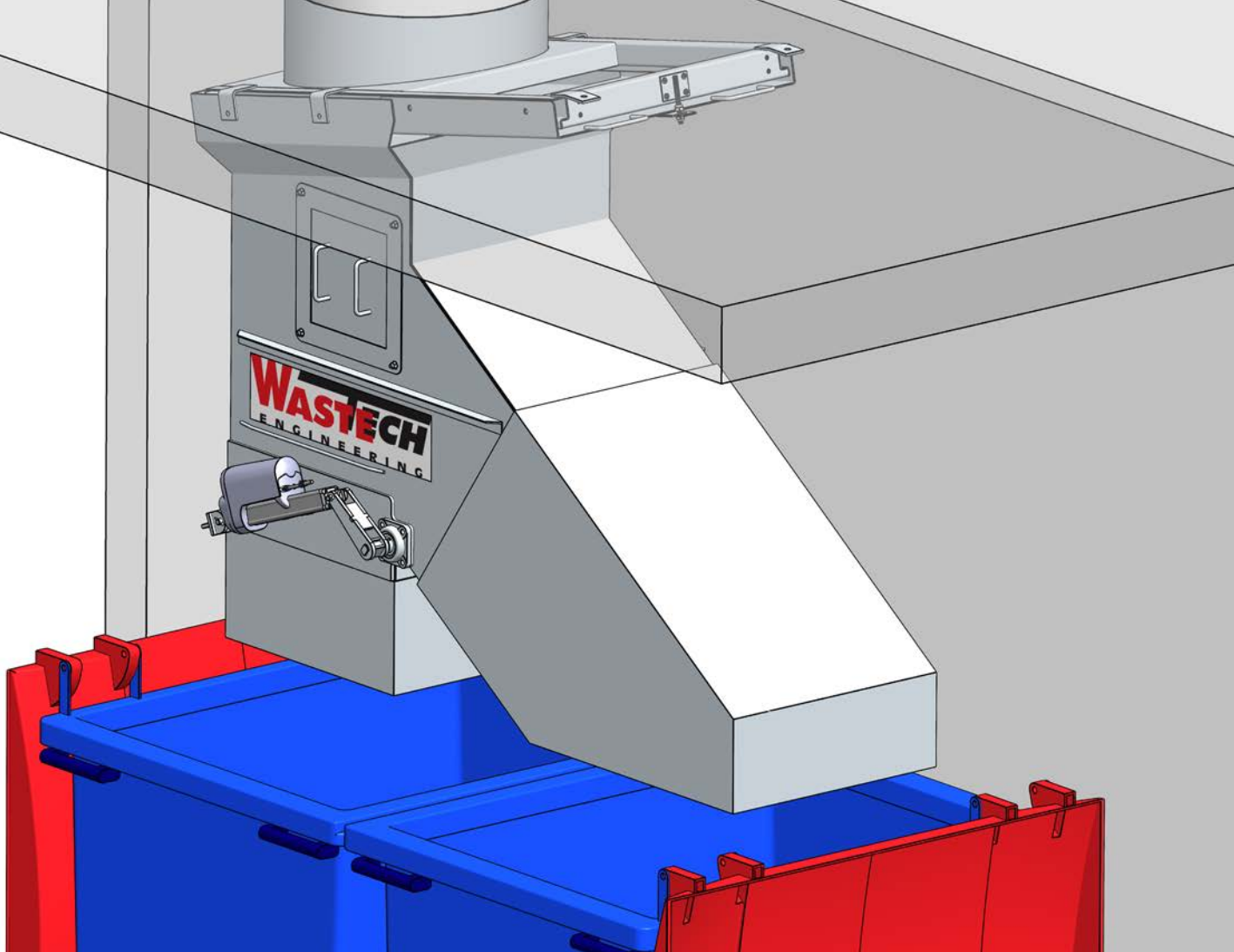
The Smarttubes™ single chute diverter systems allow for web based, wifi dial-in. This enables the user to lock individual or sets of doors, lock out of all doors for maintenance, or setting of the programmable timer. (i.e. disposal only allowed between 6am and 12am).



Programmable & Remote Lock-Out

The Smarttubes™ system is fully programmable, allowing building managers to lock out specific levels or even the entire system for maintenance. Additionally, the system can be used to enforce a building disposable curfew via a programmable timer.





Smarttubes™ Door Control Panel

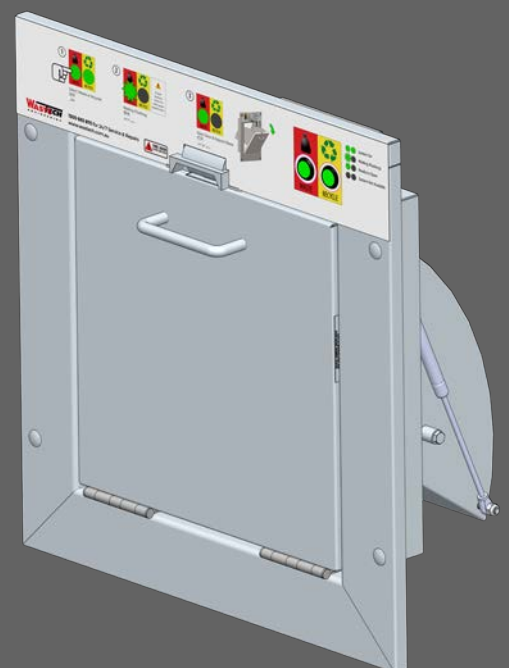
Easy Installation & Maintenance

The electric actuator of the Smarttubes™ system eliminates the need for expensive hydraulics and results in lower lifetime maintenance costs. The electric motor also allows for lower power requirements, only requiring one standard 240V outlet.



Simplified Operation

1. Select waste stream (waste or recycling).
 2. Wait* - Diverter arm will move to the appropriate position.
 3. Open - Chute door unlocks for disposal.
- To ensure correct disposal, the chute door will only open for one waste stream at any stage of operation.





Waste



Recycling



Linen



Organics

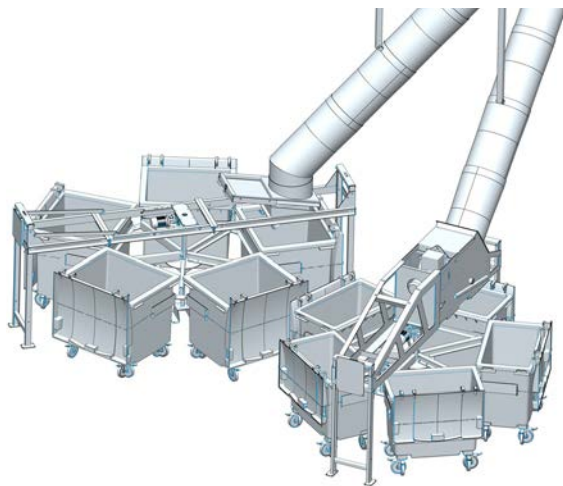
Discharge Room **Equi**

Introducing Wastech Chute compactors designed for efficient waste disposal for multi-story or multi-level buildings.

Binpac™ Compactor

Introducing an extremely quiet and fast, hydraulic free, state-of-the-art compactor, designed to handle high volumes of even the most diverse garbage types with ease.

Running costs are minimised, while maintenance and cleaning is kept simple and safe.



- Low power drive motor
- Self cleaning compact drum
- Compact profile
- Large access panels
- Jam sensor switch
- Light weight bin cradles
- Configurable control box mount

Bin feed system compatible



Compaction Ratio	2:1 to 5:1 (dependant on waste types.)
Reduction	5mm to 10mm Grade 250 M/Steel
Bin Dimensions	N/A
Capacity	N/A
Power Requirements	240V / 10A GPO
Technical Specs	N/A
Operating Force	680kg
Bin Qty	4x660ltr and 4x1100ltr Bins
Control System	PLC Control with Electronic Cycle
Service	Hydraulic Free 24 Hour Service
Warranty	12 months (terms & conditions apply)

Automatic Bin feed Systems

Designed for use with or without a compactor, Wastech Automatic Bin Feed Systems help save time by automatically rotating through your bins as they are filled. Once the system detects the bin is full, it will automatically cycle to the next available empty bin using a powered carousel or conveyor machine system.

Smart alert options are available.

For more information, contact a Wastech waste consultant on 1800 465 465.



Eco-pack Compactor

Engineered for working installation within tight space restrictions, the economical Eco-pack is a hydraulic based compactor offering high packing force to help eliminate potential OH&S issues and bin damage.



2:1 to 5:1 (dependant on waste types.)

5mm and 20mm Grade 350 High Tensile Steel

560 x 600mm

80 ltr/sec per 15 second cycle = 20m³/hr

415V / 20A / 5 Pin power point

12 Lpm Pump / 5.5kW Motor

62kn or 6.3 tonnes force @ 14Mpa

On Carousel System: Multiple Configurations Available

PLC Control with Electronic Cycle

Comprehensive fixed price service available

12 months (terms & conditions apply)

- High compaction reducing bins required in floor space
- Robust high tensile steel construction
- Quiet and efficient hydraulic system
- Continually sealed door
- Suits all bin sizes
- Suits both carousel or linear bin feed systems
- Waste is compacted inside the compactor unit and not the bin
- No bin damage



Carousel System

Ideal for rooms with tighter space, this system rotates bins in a circular cycle system.



Conveyor System

Ideal for rooms with longer, narrower space, this system rotates bins in a linear cycle system.

For specifications and configuration examples, please refer to page 15.

SmoothtubesTM Plastic Chutes

Chute Construction

Nominal Internal Diameter: Garbage 530mm

Material LLDPE (linear low density polyethylene). Internal surface is closed cell, ultra smooth finish that resists waste residue build up, odour, blockages, corrosion and liquid. +Fire hazard property tests in accordance with BCA Clause C1.10 and Specification C1.10 in complying with Australian Standard AS1530.4-2014 by Warrington Fire Research (Aust) Pty Ltd.

Material Thickness: Chute tubes 5mm nominal.

Mounts: Designed to be flexible and smoke seal at every level.

Noise & Vibration Prevention: Acoustic lagging is not necessary. Refer to #acoustic report. Isolation is provided at every level under the floor mounts. Flexible mount is isolated from concrete using polyurethane sealant that is acoustically rated.

Ventilation: 200mm diameter galvanised steel ventilation fan and discharge cowl assembly. The fan is supplied with 240 volt single phase plug and lead. The cowl assembly comes complete with dektite flashing. The vent is connected to the top of the chute by a flexible duct.

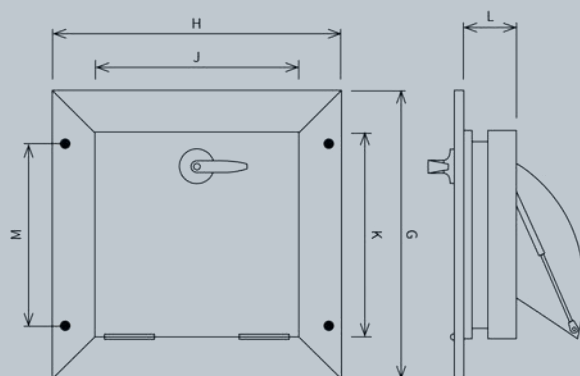
Loading throat door: SmoothtubesTM Loading Throats are molded within the chute tube creating a smooth flowing entry to reduce impact noise and minimise blockages. Loading doors -304 grade Stainless Steel with a fire block core, door frame sealed to wall using fire sealant. Compliance to Australian Standards AS1530.4-2014 (FRL:-/120/30). Doors are self closing. Key locks are supplied standard for Linen doors, Garbage and recycling doors. Fire sprinklers are installed in every loading throat ready for connection to fire services by others.

Deflector: The discharge of the chute has a 3 or 5mm thick Galvanised Steel deflector, set at 45 degrees (min) for discharge directly into a bin. The deflector is fitted with a fire activated fusible link close-off door which can be manually overridden, to close the chute for bin changes. For garbage discharge into an EcoPack Compactor the fire door is not required as the Compactor isolates the chute at all times.

Installation

Chute sections weigh no more than 15kg each allowing easy transport and installation by hand without reliance on Tower Cranes. Bricking up instructions are detailed on the front panel of every loading throat, which stays fitted until installation of loading door to prevent unauthorised use and potential damage from building rubble.

Chute Door Dimensions

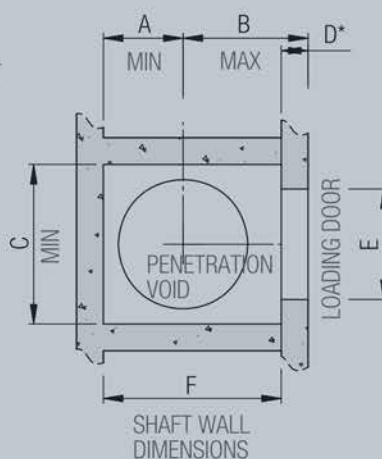
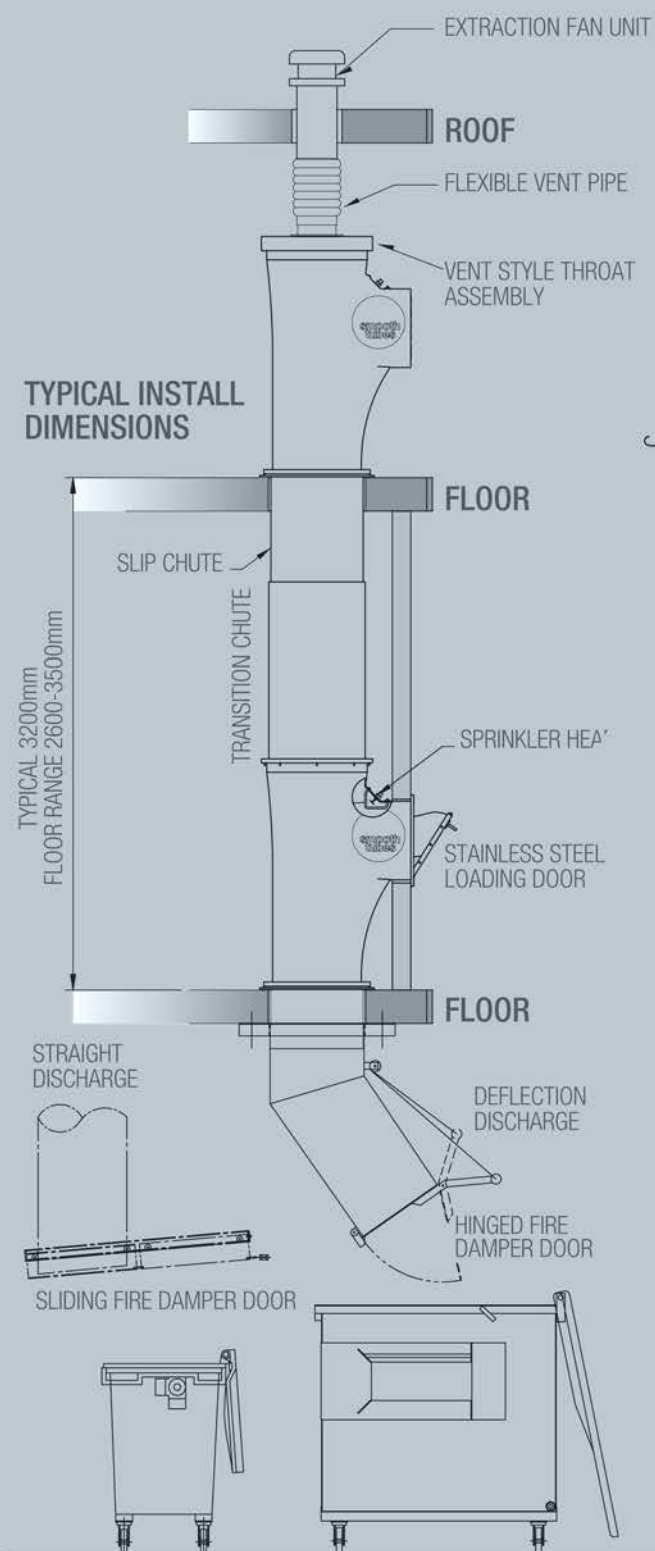


Dimensions

Label	Waste Door	Linen Door	Recycling Door
G	603mm	603mm	603mm
H	603mm	603mm	603mm
J	432mm	432mm	432mm
K	432mm	432mm	432mm
L	110mm	110mm	110mm
M	380mm	380mm	380mm

A large range of configuration options and layouts are available.

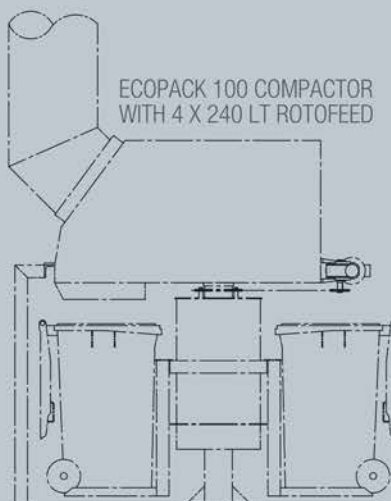
For more information or specifications, please contact a Wastech consultant on 1800 465 465.



Label Waste / Linen Chute

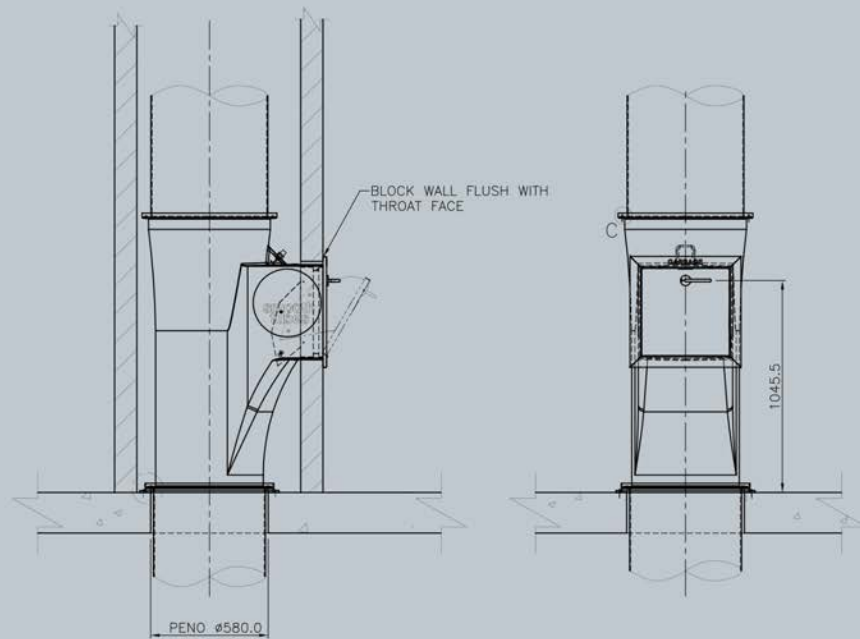
A	357mm
B	560mm
C	715mm
D	110-140mm
E	470mm
F	808mm

*See installation notes for more information.

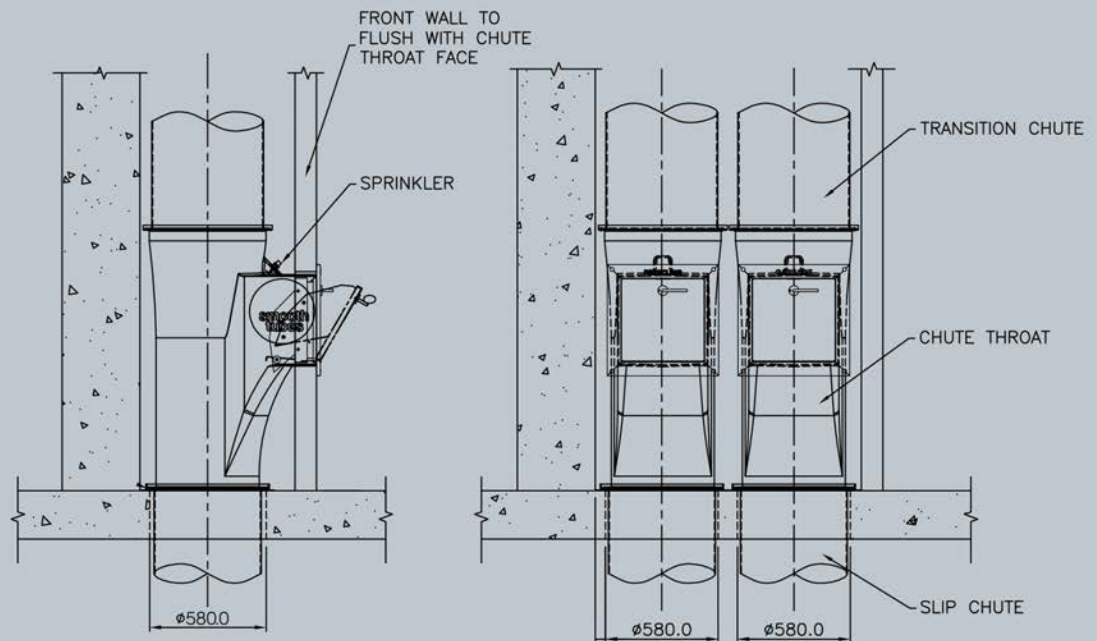


SmoothtubesTM Chute Assembly

Single Chute Assembly Example

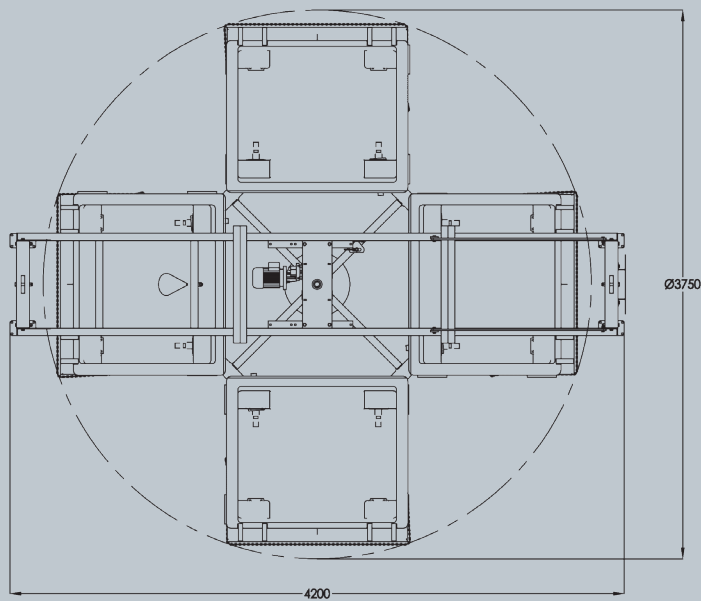


Dual Chute Assembly Example

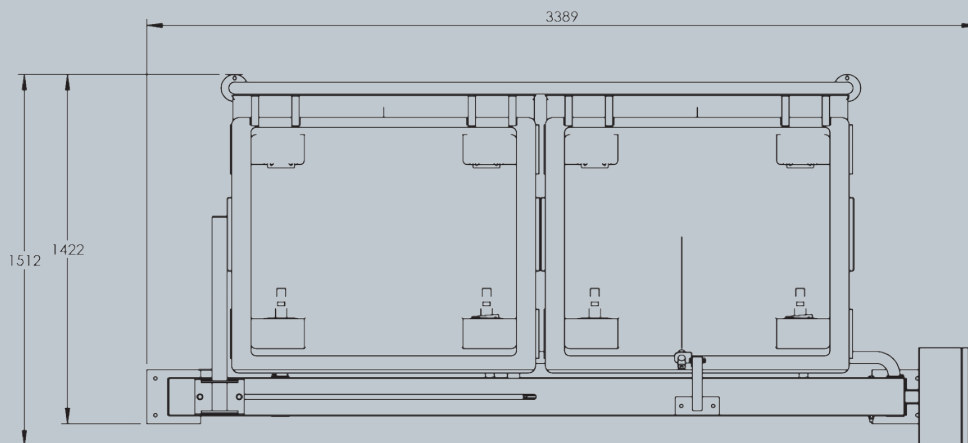


Bin Feed System Examples

Carousel Bin Feed System Examples

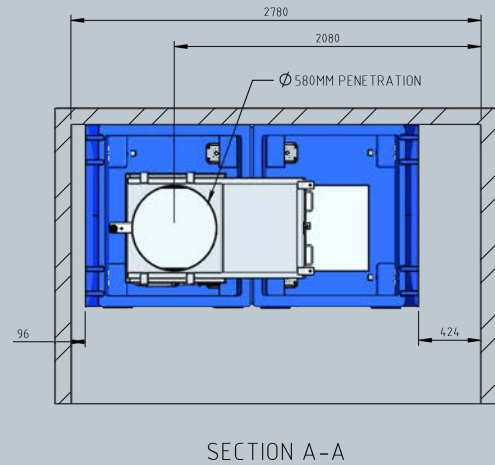
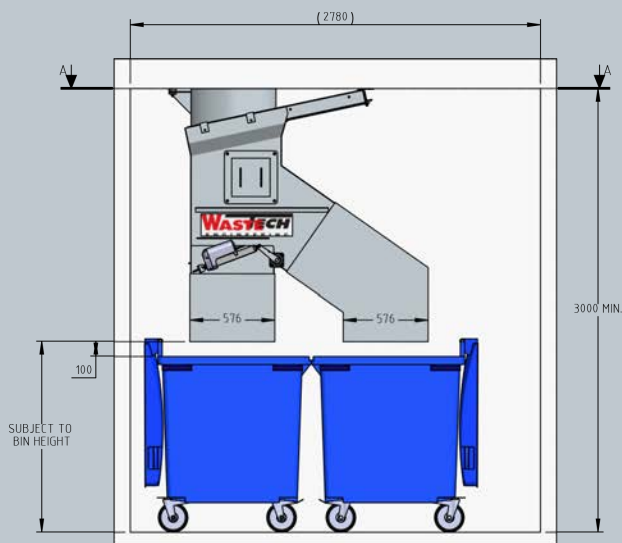


Conveyor Bin Feed System Example

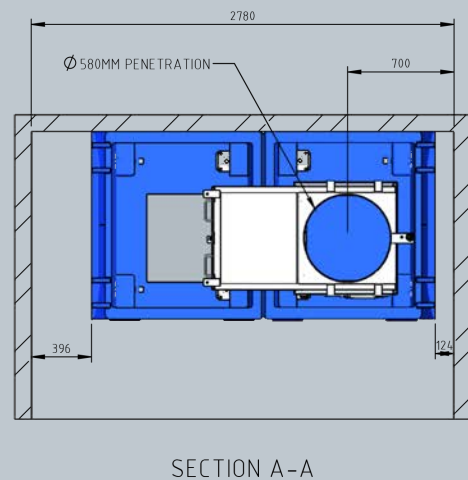
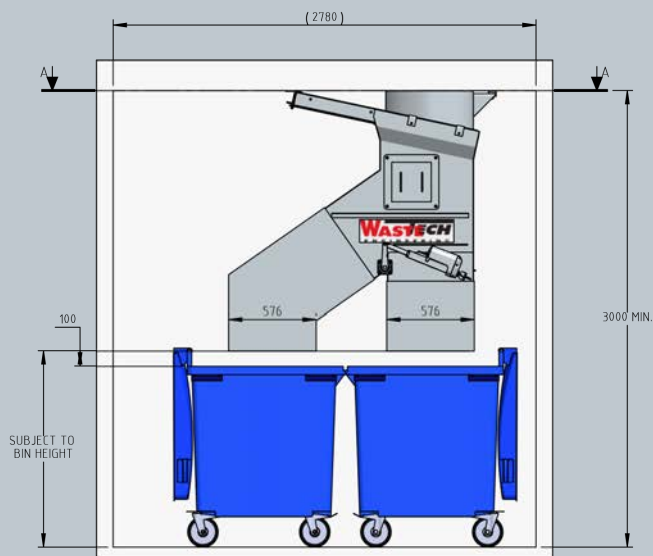


Diverter Example Room Layouts

Standard Configuration 1



Standard Configuration 2

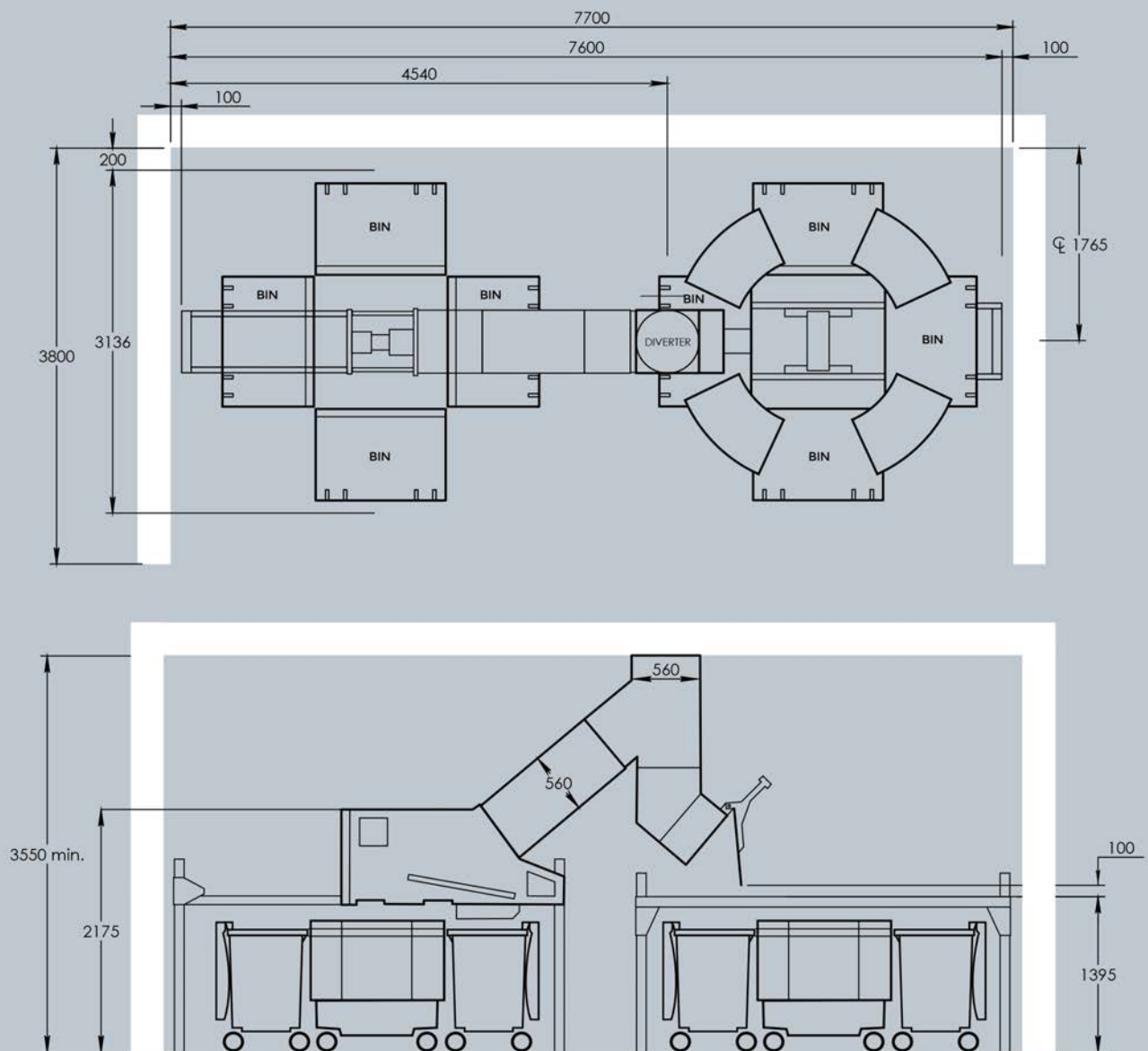


Design Guides

The following are standard installation spacings and requirements solely intended to assist in the design of refuse rooms and chute systems. These are intended as guides only and do not constitute a complete site specific design. Bin arrangements and compacting options vary significantly and are unique to each site.

Please contact Wastech for a formal assessment of your site and for further options.

Carousel Feed System Configuration: Ecopac & Bin Carousel



Optional Parts & Accessories

Wastech offer a large range of additional spare parts and accessories to suit all your needs including:



Penetration Ring

Reusable circular steel mandrel for builder to set out and form floor penetrations.



Flushing Spray

19mm diameter brass flushing spray head fitted to the top of the chute. Supplied complete with fire rate access door for maintenance.



Mounting Brackets

Site-specific brackets to suit oversized penetrations, large building shafts or wall-mounting.



Collector Bins

Plastic or steel collector bins available in all industry sizes.



Automatic Bin Feed Systems

Automatic bin feed systems available in Carousel and Conveyor layouts options.



Odour Control Systems

A range of different products designed to control odour of Waste Chute systems.



Manual Bin Handling Equipment

Wastech offers a range of optional equipment to assist with safe and easy handling of your bins.



Equipment & Bin Monitoring System

Bin full notifications via email
Bin monitoring systems.

After-Sales Service & Support

With our 24/7 after-sales service and support, you can rest assured knowing that you will receive prompt assistance whenever you need it.

- Immediate on-site service, repair and refurbishment for all products.
- Covers a wide range of support needs, including technical support, spare parts and maintenance.
- Available 365 days a year - rain, hail or shine.

Contact Us:

1300 665 870



Start your **Waste Management** Journey Today!

Contact Us

1800 465 465

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