

# Product Manual

POLYCHEM Corrosive Cabinets

Non-Metal, Lockable Self-Closing Doors

**PLEASE READ THESE INSTRUCTIONS BEFORE USE.**

## 1. Product Description

### 1.1 Introduction

Our POLYCHEM Corrosive Cabinets, designed by Westlab, bring an elevated level of safety and convenience for the storage of corrosive chemicals.

Featuring an innovative design that incorporates the Gratnells storage tray system, these cabinets ensure the secure handling of chemicals while optimising storage capacity. The Gratnells trays, easily repositionable using the cabinet's built-in rails, enhance the flexibility of the storage configuration.

The corrosive cabinets are available in three different versions: 40L, 80L, and 180L. The 40L variant consists of a single compartment, while the 80L and 180L models feature two fully isolated compartments (left and right). The dual compartments ensure a dedicated space for different chemical types, with a thoughtful division into top and bottom sections within each main compartment to minimise exposure to fumes and gases. Enhancing safety measures, drainage cavities are integrated to effectively contain any potential spillages within the sump of each compartment.

Manufactured in Australia, these metal-free cabinets boast lockable self-closing doors, ensuring secure containment, and are fully compliant with Australian Standards AS3780.

### 1.2 Features

- High Density Polyethylene (HDPE) Cabinets
- Heavily Tested for Corrosive Chemical Resistance
- Australian Standards Compliant
- Self-Closing Lockable Doors
- Manufactured In Australia
- Fabricated & Fully Welded

## 2. Technical Specifications

Type	Corrosive Cabinets
Diamond Label	Class 8 Corrosive Substances

### Cabinet Information

Material	High-Density Polyethylene (HDPE)
Door Type	Self-closing, lockable doors for preventing unauthorised access and chemical containment.
Country of Origin	Australia
Standards Conformity	AS3780:2023
Manufacturer's Warranty	2 Years

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**Publication Date:** 26/02/2024

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## Class 8 Corrosive Substances

Class 8 Corrosive Substances possess the potential to inflict severe damage through chemical action upon contact with living tissue. In the event of leakage, these substances can significantly harm or even destroy other goods or transportation means. Acids and bases, falling under this classification, should be stored separately to prevent adverse reactions.

According to the Australian Dangerous Goods Code, Class 8 Dangerous Goods are identified as '*corrosive substances*.' These materials can cause extensive damage to various materials, including metal, stone, and human flesh, due to their corrosive nature. Given their potential to cause harm to people and property, it is imperative to store and handle corrosive substances in a safe and compliant manner.

The guidelines for the safe storage and handling of corrosive substances are outlined in AS3780 - the storage and handling of corrosive substances.

### Indoor Corrosive Storage

For indoor storage, a compliant chemical storage cabinet is recommended, featuring self-closing close-fitting doors, a liquid-tight sump in the base capable of holding at least 25% of the cabinet's storage capacity, and perforated shelves for free air movement.

### Outdoor Corrosive Storage

Outdoor storage of corrosive substances necessitates a compliant corrosive substances storage container designed in full conformance to AS3780. This container should be constructed from a corrosive-resistant material or lined with a corrosive-resistant coating.

Additionally, it must have a spill containment sump with a capacity of at least 25% of the container's storage capacity or the capacity of the largest package, whichever is greater. For floor areas exceeding 25m<sup>2</sup>, the container should provide at least two means of access and display correct dangerous goods signage, including a Class 8 Corrosive Substances Diamond.

**DISCLAIMER!** The information provided above serves as a general guide for the storage and handling of corrosive substances, in accordance with the Australian Dangerous Goods Code and AS3780 - *the storage and handling of corrosive substances*. It is crucial to note that standards and regulations may evolve over time. For the most accurate and up-to-date information, it is strongly advised to consult the latest edition of the AS3780 standard and any other relevant regulations governing the storage and handling of corrosive substances.

## 3. Safety Precautions

Read the following safety precautions prior to using the corrosive cabinets to store chemicals. Never use the cabinet in any manner not specified in this manual.

- Always follow the installation instructions.
- Ensure the base of the corrosive storage cabinet (also referred to as the sump) remains free of any items.

The safety of the user cannot be guaranteed if the corrosive storage cabinet:

- is operated improperly or contrary to the manufacturer's specifications
- is operated improperly or contrary to the Australian Standards AS3780:2023

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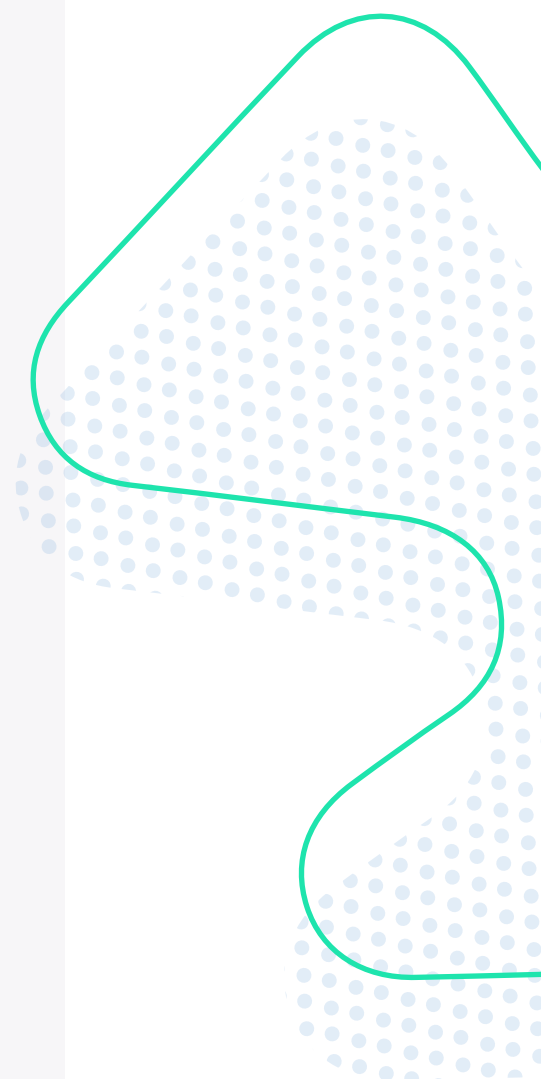
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## 4. Maintenance & Cleaning

- Wear protective gloves and safety glasses while cleaning the cabinet.
- If repairs are performed by unauthorised personnel, the product warranty may become void.

## 5. Installation

**ATTENTION!** If the unit is damaged on unpacking, please contact Westlab Pty Ltd immediately.

### Location

In accordance with the Australian Standards AS3780:2023, the corrosive cabinets need to be installed in a location where they cannot impede the escape of people in the event of an emergency.

They require a location close to a provision for washing hands.

If there is more than one cabinet within any building or area, either:

- a. the aggregate quantity of the corrosive substances kept in all such cabinets shall not exceed the quantities specified in Clause 5,6,3 in the Australian Standards AS3780:2023; or
- b. the cabinets shall be separated from each other by a minimum of 5 metres.

Place the cabinet on a flat, solid, and levelled surface. Install in a well-ventilated area.

### Vent Kit Installation

The vent kit is supplied with the purchase of the corrosive storage cabinet. It's essential to highlight that the vent hole is not pre-drilled, leaving the choice of its location to the customer.

It is crucial to avoid placing the hole below the bottom set of doors. Ensure that the hole is positioned above the sump to ensure proper ventilation. Follow these steps in accordance with the Australian Standards AS3780:2023:

1. Begin drilling the vent hole into the cabinet.
2. Screw the nipple and reducer into the vent opening.
3. Ensure that the weight and support components are slid onto the reducer, with particular attention to transferring the weight to the floor rather than the cabinet.
4. Screw the elbow securely onto the reducer.
5. Cut off the vent pipe through the roof and ceiling at the required lengths.
6. Screw the vent pipe into the elbow.
7. Maintain compliance with AS3780:2023 by cutting off the vent at a minimum height of 1.0 metres above the roof.
8. Rivet the adaptor to the vent pipe securely.
9. Rivet the whirlybird to the adaptor securely.
10. Seal the roof penetration.

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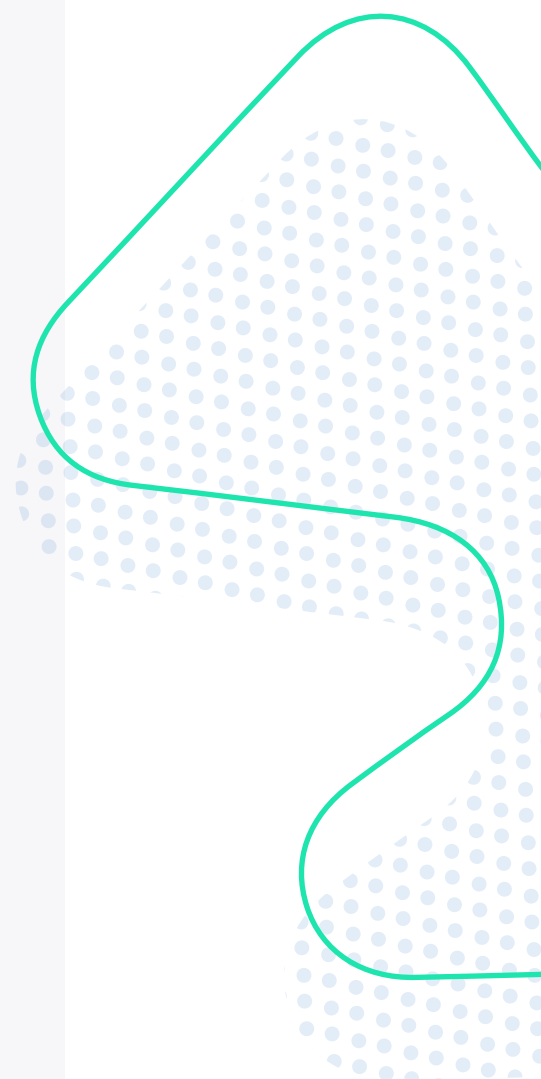
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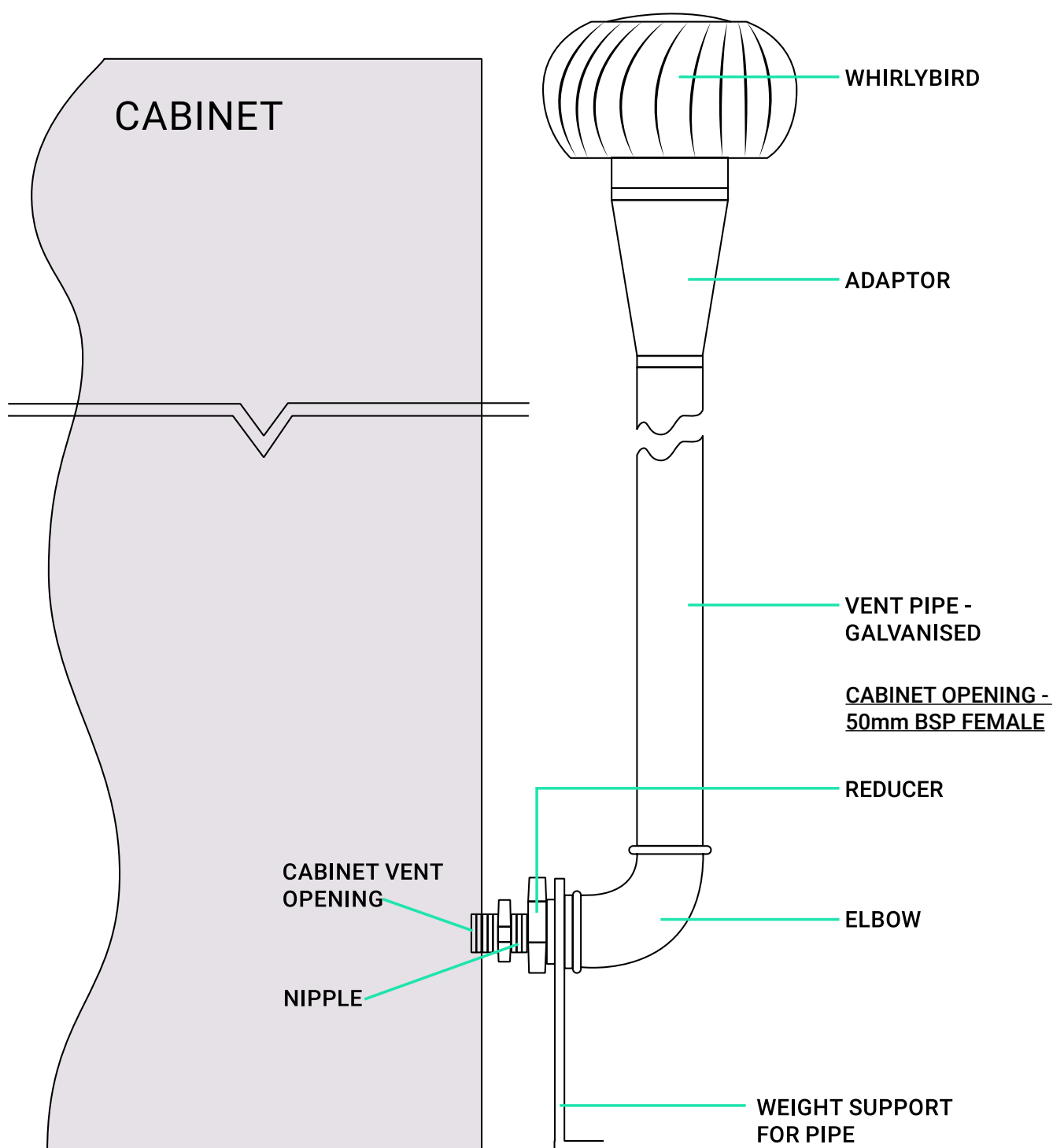
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## 6. Troubleshooting

Please contact our technical support team on 1800 358 101.

## 7. Product Recycling

In the case that the product is to be disposed of, the relevant legal regulations are to be observed..



### ORDERING WITH WESTLAB IS EASY

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**[www.westlab.com.au](http://www.westlab.com.au)**

Order online with our easy Express Order form for fast, secure ordering.

#### Phone

**1800 358 101**

Speak to one of our friendly, efficient staff from

8.00am - 5.00pm (Mon/Fri)

#### Email

**[sales@westlab.com.au](mailto:sales@westlab.com.au)**

24 hours, 7 days a week convenience.

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