

**Chemstore Ireland**

Clondrinagh Ind Est  
Ennis Rd, Limerick  
Phone: 061 327 792  
www.chemstore.ie  
sales@chemstore.ie

**Chemstore UK**

Trident Business Centre  
89 Bickersteth Road  
London SW17 9SH  
Phone: 0208 704 1807  
www.chemstore.co.uk  
sales@chemstore.co.uk

**The Veterinary Medicines Directorate  
Woodham La,  
Addlestone  
KT15 3LS**

10<sup>th</sup> February 2022

Quote Ref: CUK65885  
Attention: [REDACTED]

Dear [REDACTED],

On behalf of Chemstore, we would like to thank you for your enquiry into our Firevault safety storage product range. Please find enclosed our quotation for your consideration.

As mentioned yesterday, I would use the portacabin on the left hand side to house the fridges with the second portacabin to be then used for low risk items, we will then kit this store out with purge extraction, atex lighting and possibly static heaters if you would like them.

I have then given you various sized options for the Firevault walk in, as mentioned you could have temp control, but this is a very expensive item but does future proof the unit, key items are o2 sensor, vesda, purge extraction and lighting. The size to be chosen by you, once chosen the required size and options I can then give you the power requirements. Once an order is received I can then provide you with a drawing to show feet locations. You mentioned yesterday about dropping the unit in the car park first and moving to the final location once you are ready. This is not a problem and just would require another hiab cost of £675.

Chemstore has over 29 years' experience in the design and fabrication of hazardous materials and dangerous goods storage. We are recognised as the industry leader in providing engineered safe storage solutions and associated products in the UK and Ireland. Our hazardous material storage solutions and comprehensive product range are designed to comply with the most stringent legal, environmental, health & safety and corporate social responsibility concerns of our customers.

Chemstore products and services are designed to exceed all client expectations of performance and are delivered with a superior level of customer service.

If you have any queries regarding the enclosed quotation, please do not hesitate to contact us.

Yours faithfully,

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



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**OUR CLIENT LIST**

## Compliance & Certification

For your reference, please see below an extract from **Health & Safety Guidance Notes HS(G)51 – Storage of Flammable Liquids in Containers** which defines the separation of non-fire rated storage units from occupied buildings, boundaries, process units, flammable liquid tanks of fixed ignition sources, as the following:

<i>Quantity Stored (L)</i>	<i>Distance Required (m)</i>
Up to 1000	<b>2</b>
1,000 – 100,000	<b>4</b>
+100,000	<b>7.5</b>

If these distances are not feasible, then a fire-rated system (normally 1-hour Firevault) is required. Our **Firevault** safety stores are based on over 28 years of direct experience in this field and also on the following standards, guidelines and Best Practices: -

(The most commonly applied standards shown here)

- **FM APPROVALS – Manufactured in accordance with FM Guidelines ‘Approval Standard for Flammable Liquid Storage Buildings’**
- **DSEAR - The Dangerous Substances and Explosive Atmospheres Regulations, 2002**
- **PPG – Pollution Prevention Guidelines**, produced by the Environment Agency for England & Wales, the Scottish Environment Protection Agency and the Environment and Heritage Service in Northern Ireland.
 

<b>PPG1</b>	<b>General guide to the prevention of pollution.</b>
<b>PPG8</b>	<b>Safe storage &amp; disposal of used oils.</b>
<b>PPG11</b>	<b>Preventing pollution on industrial sites.</b>
<b>PPG26</b>	<b>Storage and handling of drums &amp; IBC’s.</b>
- **HSE – Health & Safety Executive Guidance Notes**

<b>HS(G)51</b>	<b>The storage of flammable liquids in containers.</b>
<b>HS(G)71</b>	<b>Chemical warehousing.</b>
<b>HS(G)140</b>	<b>Safe use and handling of flammable liquids.</b>
- **ATEX 95 & 137 Directives**, covering explosive atmospheres in the workplace and the equipment operating within.
- **COSHH - Control of Substances Hazardous to Health Regulations, 2002.**
- **Corporate Manslaughter and Corporate Homicide Act, 2007**
- **DEFRA – Guidance note for the Control of Pollution (Oil Storage) (England) Regulations, 2001.**
- **Full list of reference sites available for projects completed over the last 28 years throughout the UK & Ireland.**



## FLAMEPROOF CONSTRUCTION



Store must be positioned within a 'safe location', away from sources of ignition, work areas, public boundaries and occupied buildings as per **HS(G)51**.



Single skin, welded steel construction is fully vandal proof and non-combustible.



No resistance to temperature increase as there is no thermal barrier created.

## FIREVAULT CONSTRUCTION



Store can be positioned (within reason) next to hazards, occupied building and boundaries.



Fully fire rated and certified components used throughout, includes 100mm thick cladding, intumescent seals and air vents.



90 Minute thermal barrier should allow sufficient time for evacuation or for fire crew to safely deal with a situation in the event of a fire.



**Summary of Costings:****2.5mWI-FV: £ 23,455***90-Minute fire-rated storage unit for small containers**Includes:*

- 1 No. Atex-rated LED light fitting

**3.5mWI-FV: £ 26,195***90-Minute fire-rated storage unit for small containers**Includes:*

- 1 No. Atex-rated LED light fitting

**5.0mWI-FV: £ 32,695***90-Minute fire-rated storage unit for small containers**Includes:*

- 2 No. Atex-rated LED light fitting

**7.0mWI-FV: £ 36,130***90-Minute fire-rated storage unit for small containers**Includes:*

- 2 No. Atex-rated LED light fitting

**Retrofit of Existing 10x4m Unit: £ 19,215***Installation of the following components on-site by Chemstore engineers*

- 3 No. Atex-rated LED light fittings
- Atex-rated purge extraction
- 4 No. Atex-rated internal sockets
- VESDA fire detection system with O2 sensor

**60L Poly Spill Tray: £ 75 per tray***Poly spill tray for the storage of corrosive chemicals***Delivery: Included****Lead-time: 7 – 8 weeks from approval of drawings.****Standard Hi-AB off-loading: £ 675**

- Generic RAMS/Method Statement provided
- Goods / Lift is not insured
- Customer must Supply appointed Person onsite

**Contract Hi-AB off-loading: £ 2,450**

- Site Visit
- Lift / Goods insured up to limit
- Crane / Hiab driver
- Banks / Slinger man provided
- RAMS provided specific to site

*All figures are excluding VAT.**Due to the current volatility of raw material costs, this quote is valid for 7 days**Payment terms to be agreed prior to placement of order.**Unloading is otherwise the responsibility of the client.**Standard Chemstore Terms & Conditions can be found at [www.chemstore.co.uk/terms-and-conditions](http://www.chemstore.co.uk/terms-and-conditions)*

### 2.5mWI-FV – Firevault



**90-Minute fire-rated construction**



**Fully bunded, tested and certified**



**Vandal proof**



**Maintenance free**



**Fork-liftable**



**Optional extras available**



**Overall Dimensions:**

2,500L x 2,650W x 2,800H mm.

**Storage:**

120x25L Drums on 3 levels.  
 600mm deep, fixed storage shelves fitted on sides of unit to allow storage of small containers.

**Tare Weight:**

2,650 kg

**Sumps:**

Total Capacity: 1,000L.  
 Corrosion resistant epoxy coating over 3mm welded steel sump tray, fitted under lower shelf level.

Bund Test Certificates are issued with each unit.  
 (Capacity exceeds current Environmental guidelines, 25% of the total volume and 110% of the single largest container).

### 3.5mWI-FV – Firevault



**90-Minute fire-rated construction**



**Fully bunded, tested and certified**



**Vandal proof**



**Maintenance free**



**Fork-liftable**



**Optional extras available**



**Overall Dimensions:**

3,500W x 2,650D x 2,800H mm.

**Storage:**

156x25L Drums on 3 levels.  
 600mm deep, fixed storage shelves fitted on sides of unit to allow storage of small containers.

**Tare Weight:**

3,190 kg

**Sumps:**

Total Capacity: 1,200L.  
 Corrosion resistant epoxy coating over 3mm welded steel sump tray, fitted under lower shelf level.

Bund Test Certificates are issued with each unit.  
 (Capacity exceeds current Environmental guidelines, 25% of the total volume and 110% of the single largest container).

### 5.0mWI-FV – Firevault



**90-Minute fire-rated construction**



**Fully bunded, tested and certified**



**Vandal proof**



**Maintenance free**



**Fork-liftable**



**Optional extras available**



**Overall Dimensions:** 5,000W x 2,650D x 2,800H mm.

**Storage:** 216x25L Drums on 3 levels.  
600mm deep, fixed storage shelves fitted on sides of unit to allow storage of small containers.

**Tare Weight:** 3,620 kg

**Sumps:** Total Capacity: 1,500L.  
Corrosion resistant epoxy coating over 3mm welded steel sump tray, fitted under lower shelf level.

Bund Test Certificates are issued with each unit.  
(Capacity exceeds current Environmental guidelines, 25% of the total volume and 110% of the single largest container).

### 7.0mWI-FV –Firevault



**90-Minute fire-rated construction**



**Fully bunded, tested and certified**



**Vandal proof**



**Maintenance free**



**Fork-liftable**



**Optional extras available**



**Overall Dimensions:** 7,000W x 2,650D x 2,800H mm.

**Storage:** 252x25L Drums on 3 levels.  
600mm deep, fixed storage shelves fitted on sides of unit to allow storage of small containers.

**Tare Weight:** 4,030 Kgs.

**Sumps:** Total Capacity: 2,000L.  
Corrosion resistant epoxy coating over steel sump tray, fitted under lower shelf level.

Bund Test Certificates are issued with each unit.  
(Capacity exceeds current Environmental guidelines, 25% of the total volume and 110% of the single largest container).

## Firevault Construction

<b>Access:</b>	Double-leaf, hinged T90 fire-resistant door fitted with key locking mechanism positioned on the long side of the unit. Overhead door closer Dorma TS 71 with a clear entrance passage of 1,400x2,085mm. Door leaf thickness 62mm. Fire-resistant in accordance with EN 1634-1.
<b>Construction:</b>	Robust all welded 100x50mm steel box section frame.
<b>Shelving:</b>	Shelving and flooring finished with fully galvanised grid decking for storage of loose containers.
<b>Sealing:</b>	Full door, intumescent, elastomeric, neoprene-based seals are installed to protect the Firevault and its contents from the spread of flame and heat. All seals have self-extinguishing properties in fire and are not affected by toxic fumes, dust, or weather conditions.
<b>Ventilation:</b>	Intumescent ventilation Pyrogrilles fitted as standard at high and low level to ensure good natural ventilation throughout the store. Pyrogrilles are tested and certified to BS 476 part 22
<b>Wall/Door Cladding:</b>	100mm thick Fire-rated panels fabricated from high quality resin bonded Conrock slab are securely fixed using the tongue and groove method, to the robust welded steel box framework. When tested in accordance with <b>BS 476 part 22 1987</b> the panels exhibit the following results: Resistance to the passage of flames 98 mins. Insulation on temperature 98 mins. Stability >98 mins <b>There is, therefore, fire resistance to the wall construction of 98 mins.</b>
<b>Roof Cladding:</b>	In accordance with Health & Safety Guidance Notes HS(G)51, which states that: - <b><i>“External storage buildings, whether or not they are fire-resisting structures, should have a light-weight roof to act as explosion relief”</i></b>
<b>Finish:</b>	Framework: All steel coated with 2 pack anti-corrosive Polyurethane paint system. Choice of colours. <b><u>Standard colour: Red RAL 3020.</u></b>  External: Longlife, maintenance free plastisol (PVC) finish on wall panels. 20-year Corrosion proof guarantee in normal operating conditions. Choice of colours. <b><u>Standard colour: Goosewing Grey.</u></b>
<b>Signage:</b>	Clear and bold “Firevault”, “Flammable, No Smoking, No Naked Light” and “Keep Door Closed When Not In Use” signs fitted as standard.
<b>Light Fittings:</b>	Atex-rated 1,500mm (5”) LED light fittings suitable for use in a Zone 2 flammable atmosphere. Complete with external on/off switch.

### Optional Extras

Chemstore units must be supplied by a clean RCBO supply, rather than the RCD / MCB devices. Power rating dependent on installed components. It is assumed that the store itself is located within a safe zone and therefore all external electrics are IP65 rated.

**Extractor:** Atex-rated Wall mounted extractor suitable for use in a Zone 2 flammable atmosphere fitted with a high velocity cowl for dispersal of vapours. Complete with externally mounted purge starter switch up to 120 air changes per hour. Once activated, the extraction will run for a predetermined time before activating a traffic beacon when safe to enter.

**Cost:** £ 4,020

**Temperature Control:** Atex-rated AHU system to maintain temperatures between 18°C - 25°C. Systems include:

- Return spigot
- G4 filter
- 4.0kw heat pump coil (8.0kw for larger stores)
- Atex Supply fan
- P3 duct work, fire dampers and diffusers
- 4.0kw condensing unit c/w fridge pipework and condense pump (8.0kw for large stores)
- Control panel c/w
  - Atex Air flow switch
  - Atex Low limit and Return temperature sensor
  - Alarm beacon
  - IP65 enclosure with Touch screen controls
  - Delta expansion unit

**Cost – 2.5mWI-FV & 3.5mWI-FV:** £ 26,900

**Cost– 5.0mWI-FV & 7.0mWI-FV:** £ 28,545

**VESDA Air Sampling System:** This system is based on air quality sampling via internal pipework with intake points to draw in air. The air is then sampled via the Vesda LaserFocus 250. The principle of detection is based on light scatter. The air sampling systems are fitted with a standard 2 stage air filter. Pipework is designed to cover up to 25m. Supplied with Banshee Excel sounder beacon. Zone 2 rated internal components with safe zone external components.

An ECO detector installed on the VESDA pipe will monitor the oxygen volume in the storage area.

**Cost:** £ 6,235

**Door Hold-Open Device:** Upgrade to the T90 access door with magnetic door hold-open device and manual release

**Cost:** £ 2,200

**Heater:** Atex-rated 3kW Heater for frost protection suitable for use in a Zone 2 flammable atmosphere. Complete with settable thermostat. Recommended one heater per 2.5m of store length.

**Cost:** £ 3,345 per fitting

**Multiple optional extras may reduce total cost pending review.**

**All prices quoted are excluding VAT.**

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**60L Poly Spill Tray**

<b>Dimensions:</b>	1,000L x 605D x 200H mm
<b>Storage:</b>	Up to 4x25L Drums
<b>Sump Capacity:</b>	63 Litres
<b>Max Load Weight:</b>	205 kg
<b>Construction:</b>	Corrosion resistant polyethylene suitable for corrosives, acids and chemicals.
<b>Maintenance:</b>	Easy to clean with water jet or similar, suitable for internal or external use.
<b>Finish:</b>	Tough plastic construction will not dent, scratch or rust. 100% UV stabilised to retain colour and finish over time. <b>Yellow base and removable Black platform</b>