

Refuels Ltd – Tank Overview 2015 V2

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Completed by / Circulation:

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<p>Introduction</p>	<p>Refuels Ltd secure distillate product (petrol, diesel & mixtures) from the marketplace for either processing for sale as product at standard specification or for use 'as is' in energy production or manufacturing.</p> <p>The product sourced by Refuels Ltd in the Netherlands, Belgium & Germany primarily comes from misfuelled road vehicles, lease vehicles being de-fleeted or vehicles at end of life.</p> <p>This product as collected by specialist roadside assistance vehicles or static equipment is decanted into Refuels Ltd Supervault Tanks specially constructed and tested under licence for this purpose. The Supervault storage tanks used are of up to 15,000ltrs in capacity.</p>
<p>2. Tank Overview</p>	<p>Refuels Ltd Supervault tanks are the only approved aboveground Petroleum UN1203 storage vessels for field applications above 2000 litres and have the following features:</p> <p>The Refuels Ltd Supervault MH Tanks have the following systems in line with UL2085 (US) & KIWA (EU) requirements:</p> <ul style="list-style-type: none"> ⤴ HLCO High level cut-off alarm system. ⤴ Real time tank content volume and temperature monitoring. ⤴ Dry brake user couplings. ⤴ Vapour recovery integral for uplifting operations. ⤴ User specific security and access control. ⤴ Integral self bunding. ⤴ Earth circuit continuity. ⤴ PPV Pressure proportioning. ⤴ Frangible disc explosion protection. <p>They are also subject to Type Approval consisting of testing against those standards as below:</p> <ul style="list-style-type: none"> ⤴ 4-Hour, 2000° F Fire Test, Internal temperature increased only 165° F ⤴ Immediately after the Fire Test the hot tank is exposed to a Hose Stream Test ⤴ The same tank is shot with 5 rounds of 150 grain M-2 ball ammunition (823m/sec.) The bullets penetrate the outer containment tank and stop in the insulation. ⤴ Finally the same tank is exposed to another two hour fire test with the same pass/fail criteria of the first. <p>General Site Requirements</p> <ul style="list-style-type: none"> ⤴ Tank size – 7.8 metres length, 2.1 metres height & 1.8 metres width. ⤴ Hard standing for tank and vehicle operations. ⤴ Intercepted, contained or groundwater secured vehicle operations area. ⤴ Security lighting. ⤴ Security controlled – gated or monitored. ⤴ Appropriate access / egress.

3. Tank Specification

Supervault MH – Multi-hazard Rated Insulated and Protected Above Ground Petroleum Tank – Cylindrical.

Tank Construction Testing Certification & Listing:

BS-EN 12285 – 2 : 2005
4 Hour Fire Rating
SwRI Standard 95-03 and 93-01
UFC A-II-F-1
UL2085

Monitoring & Gauging:

Directive 94/9/EC

EN 60079-0 : 2006
EN 60079-11 : 2007
EN 60079-26 : 2007

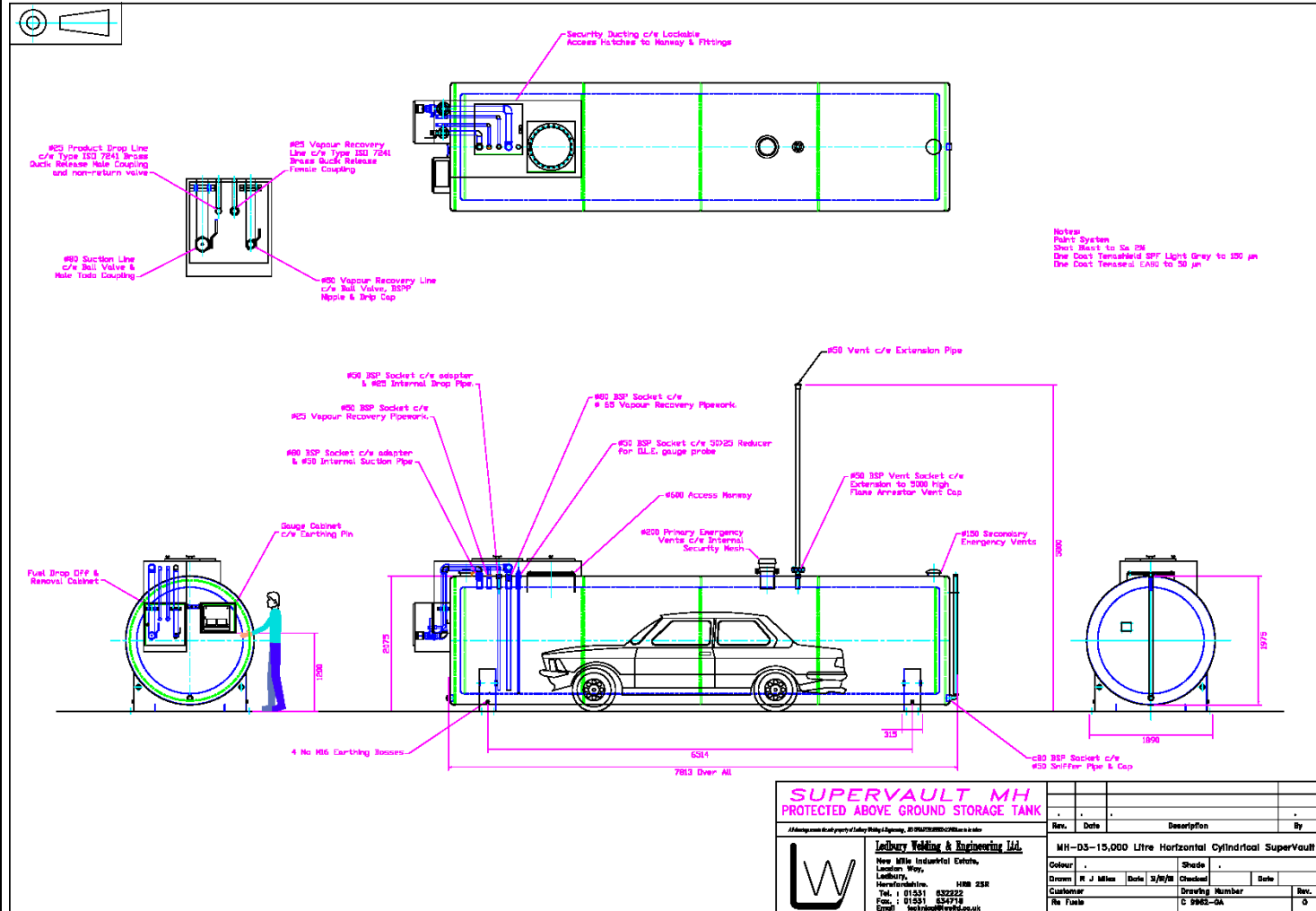
Directive 2004/108/EC (EMC)

EN 61000-6-2 :2005
EN 61000-6-3 :2007

ATEX

EX II ½ G or II 2 G – Ex ia IIA T4 for IIA
EX II ½ G or II 2 G – Ex ia IIA T4 for IIB

4. Tank General Drawing



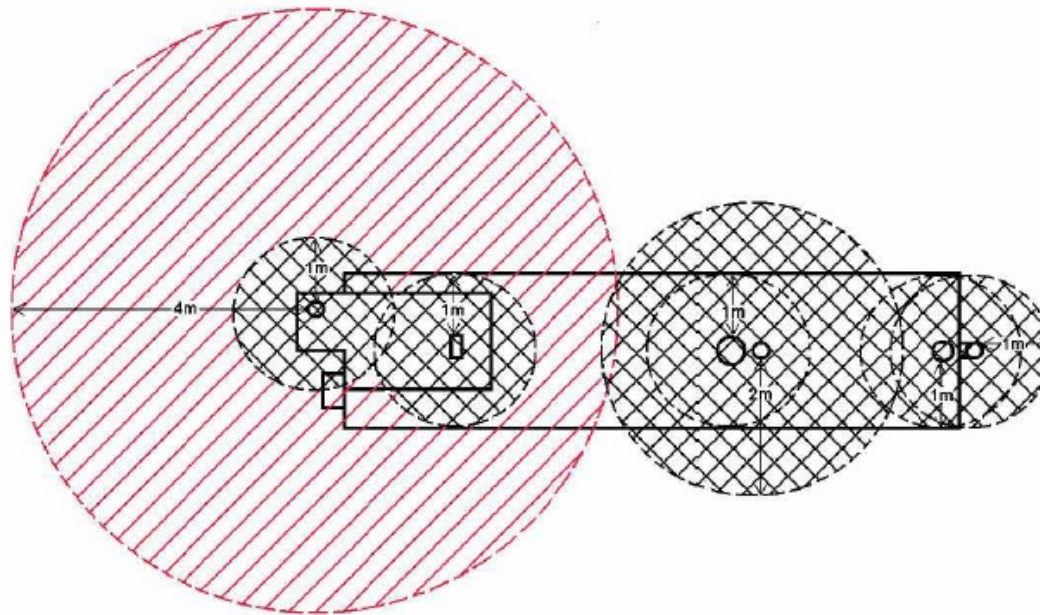
SUPERVAULT MH PROTECTED ABOVE GROUND STORAGE TANK			
Rev.	Date	Description	By

	Ladbury Welding & Engineering Ltd. New Mill Industrial Estate, Ludlow Way, Ludlow, Herefordshire. HR8 2SR	
	Tel: 01531 622222 Fax: 01531 624718 Email: technical@lweh.co.uk	Customer Drawing Number C 2962-0A

5. General DSEAR Overview
(Hazardous Zones during operations)

FIGURE 1 - CONTAMINATED FUELS STORAGE TANK (Not to scale)

(a) Plan



Notes:

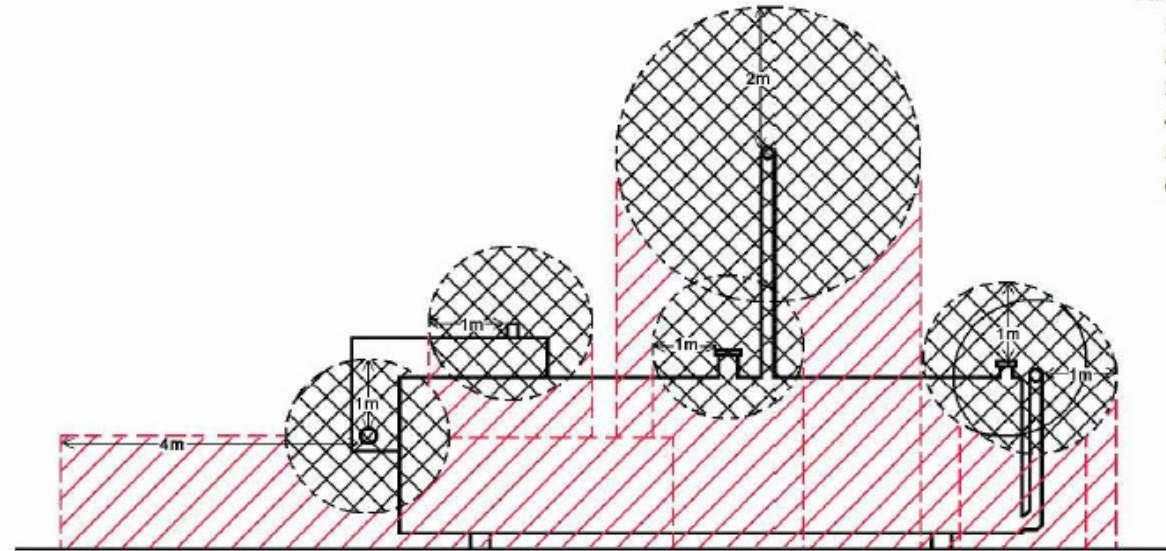
Main sources release:

1. Faulty valve
2. Leaking tank
3. Vent pipe
4. Access points
5. Overfilling of tank
6. Accidental impact

5. General DSEAR Overview
(Hazardous Zones during operations)

FIGURE 2 - CONTAMINATED FUELS STORAGE TANK (Not to scale)

(b) Side elevation



Notes:

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2. Leaking tank
3. Vent pipe
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5. Overfilling of tank
6. Accidental impact