

Tanker Unloading Connections
Zone 1 extends 1m radius around road tanker bottom loading adaptors
Zone 1 extends 1m above ground & 1m radius either side of hose 'corridor'
Zone 2 extends horizontally 4m around fill connections and 1m above forecourt level
(BlueBook[4th 2018] 3.3.5 fig3(c))

Petrol Interceptor
Zone 2 hazardous area 2m radius around Petrol Interceptor cover
Zone 1 Petrol Interceptor tank chamber
Zone 0 Petrol Interceptor tank contents

Offset Fills
Zone 1 extends 1m radius
Zone 2 extends horizontally 4m around fill points & 1m above forecourt level
(BlueBook4th 2018] 3.3.5 fig 3(c))

Dispenser
Zone 2
Composite hazardous area around dispensers during refueling.
Size indicative subject to hose length.
Zone 1 around air separator vent extending 250mm horizontally down to ground level and 100mm vertically above vent
(BlueBook[4th 2018] 3.3.9.4 fig 12)

Interceptor vent opening
Zone 1 hazardous area 1m around (BlueBook[4th 2018] 3.3.7 fig 7)

Vent Stack (with vapour recovery)
Zone 2 hazardous area 2m radius sphere around top of vent and from that sphere down to ground level
(BlueBook[4th 2018] 3.3.5 fig 4(a))

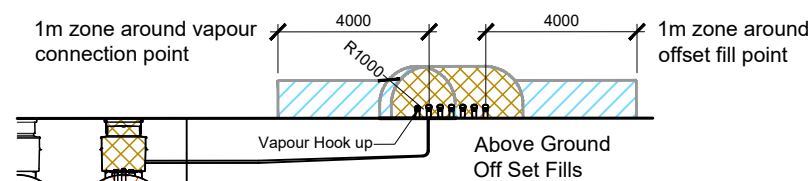
Electric Vehicle Charging
Hazardous Zones indicated as 3m long Cable length + 5m for car whilst connected (Indicated Green)

Tank Farm
Zone 0 within storage tank
Zone 1 within storage tank chambers

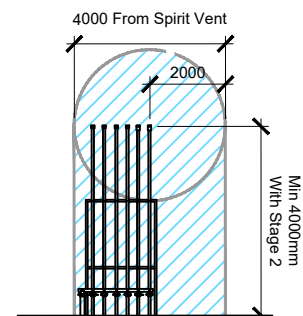
New Feeder Pillar as DNO Design

Meter Cabinet Building Supply

SHOP

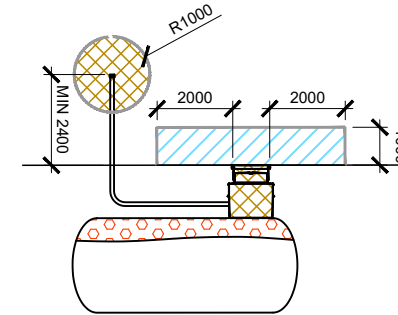


Above Ground Offset Fills



Typical Hazardous Zone 2 area around storage tank vent pipes with vapour recovery

Tank Vents



Typical Hazardous Zone areas around a Oil/Water Separator Tank

Petrol Interceptor

Hazardous Zone Key



Designation of Zones

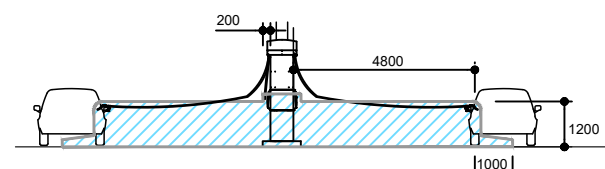
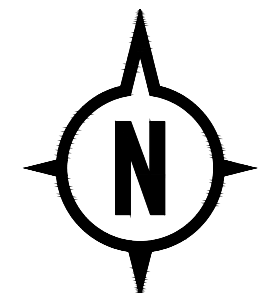
Zone 0 : An area in which any flammable atmosphere is likely to be continuously present in concentrations within the upper and lower limits of flammability. Note: Zone 0 exists within all tank compartments & Interceptors. Under no circumstances must personnel enter these areas
Zone 1 : An area in which a dangerous atmosphere is likely to occur in normal operating conditions.
Zone 2 : An area in which a dangerous atmosphere is likely to occur only in abnormal operating conditions and not in normal operating conditions.

Notation and Specification

The classification of hazardous zones as shown on the layout is in accordance with the h&se guidance notes cs/4 & hs/g 34, b.s. 7117 and guidance for the design, construction, modification and maintenance of petrol filling stations.

Tanker Unloading Connections
Zone 1 extends 1m radius around road tanker bottom loading adaptors
Zone 1 extends 1m above ground & 1m radius either side of hose 'corridor'
Zone 2 extends horizontally 4m around fill connections and 1m above forecourt level
(BlueBook[3rd 2011] 3.2.2.3a fig3.2)

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Typical Hazardous Zone area around a dispenser in use with stage 2 vapour recovery installed. Extent of Zones 2 from Nozzle depending on vehicle position and hose length

Fuel Pump

Where vehicle fuels are not removed directly following a spillage, the ullage space in the separator will be classified as Zone 0 giving rise to a Zone 1 hazardous area of 1m around the top of the separator vent.

Access chambers should be classified as Zone 1 when these are sealed (gas tight). If the chamber is covered but not gas tight this will give rise to an additional Zone 2 Hazardous Area above the cover of radius 2m from the edge to a height of 1m.

A 07.07.26
AMENDMENTS INCLUDE:
- EV EQUIPMENT
- REPOSITIONED TO SUIT UK
- POWER NETWORKS SUPPLY
- EV U/G SERVICES AMENDED TO SUIT

REVISIONS	
CLIENT	EG ON THE MOVE
PROJECT	BROOMFIELD S/S MAIN ROAD CM1 7DH
TITLE	HAZARDOUS ZONES
DATE	22.05.26
SCALE	1:200 @ A3
JOB ID	2298
DWG	20a