

(100)

Oil Storage Installations  
Building (Oil Storage Installations) Regulations

Construction of an oil storage installation should not commence without having first obtained approval and consent under Buildings Ordinance section 14(1). Furthermore the oil storage installation should not commence operations before being granted a licence to do so, under the Building (Oil Storage Installations) Regulations. The following synopsis is given to highlight some of the requirements of the Building (Oil Storage Installations) Regulations.

2. An oil storage installation is defined in the Regulations as any tank having a capacity of not less than 110,000 litres, or a group of tanks (within the same cluster/banded area) any one of which has a capacity of not less than 110,000 litres, constructed above ground level for the purpose of storing oil or petroleum products.

3. An above ground oil storage installation is deemed to satisfy the requirements of the Building (Oil Storage Installations) Regulations if it meets the standards set out in the Code of Practice for Oil Storage Installations, to which further reference should be made.

4. All oil storage installations are licensed under the Regulations, and any new installation or new tankage in an existing installation requires a licence. As a pre-requisite to the granting of a licence for new tankage three copies of the prospective licensee's operation and management instructions of the installation and its associated structures should be submitted for approval in principle. This should be done as soon as possible following the approval of all the plans so that any amendments to the building works necessitated by any changes in operation instructions required may be implemented before the works have progressed too far. One copy of the agreed operation instructions after approval in principle, will be returned to the prospective licensee for resubmission with the licence application. It should be noted that an occupation permit and a certificate of general inspection are required prior to the granting of a licence for new tankage. For new tankage in an existing licensed installation, the original Form B should be returned with the licence application for endorsement. The licence is renewable annually and the application must be accompanied by the certificates of inspection as required under Building (Oil Storage Installations) Regulation 8, copies of which are attached for your information.

5. For the repair of existing tanks two copies of the proposals, signed by a registered structural engineer, should be submitted in order to obtain written authorization, as required under regulation 10. Where the repair works are considered to be extensive, formal approval under the Buildings Ordinance will also be required.

6. There have been cases where partially constructed tanks have been damaged during a typhoon. As such, suitable precautionary measures should be adopted during the construction or repair of tanks when extreme weather conditions are predicted.



(A.G. Eason)  
Building Authority

Ref. : BLD(B) GP/BREG/A/6/1

First issued May 1978

This update January 1990 (GBS/S)

Index under : Building (Oil Storage Installations) Regulations  
Oil Storage Installations

INSPECTION OF TANKS  
 BUILDING (OIL STORAGE INSTALLATIONS) REGULATIONS  
 REGULATION 8(1)(a)

CERTIFICATE OF GENERAL INSPECTION

....., 19 .....

In accordance with the provisions of Regulation 8(1)(a) of the Building (Oil Storage Installation) Regulations, I .....  
 Registered Structural Engineer, hereby CERTIFY that I have \*inspected/supervised the  
 general inspection of the tank forming part of the oil storage installation operated by  
 ..... (Company)  
 ..... address  
 ..... lot No.  
 and in my opinion this tank is

structurally sound and fit for service for a further twelve months \*and the  
 undernoted corrective measures are required

unfit for service until the undernoted measures are completed to my  
 satisfaction

TANK NO.		CAPACITY	FIXED OR FLOATING ROOF	YEAR BUILT	DATE OF INSPECTION
.BA	CO.				
No.	INSPECTION ITEM	CONDITION		REMARKS/RECOMMENDATION FOR CORRECTIVE MEASURES	
		SATISFACTORY	REPAIR		
1	ULTRASONIC TEST a) 1ST/2ND COURSES SHELL	<input type="checkbox"/>	<input type="checkbox"/>		
	b) BASE PLATE	<input type="checkbox"/>	<input type="checkbox"/>		
2	EXTERNAL/INSULATION PAINTWORK	<input type="checkbox"/>	<input type="checkbox"/>		
3	SETTLEMENT+	<input type="checkbox"/>	<input type="checkbox"/>		
4	PERIPHERAL BASE SEAL	<input type="checkbox"/>	<input type="checkbox"/>		
5	EXPOSED BOTTOM PLATE AND JOINT	<input type="checkbox"/>	<input type="checkbox"/>		
6	EARTH CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>		
7	TANK FOUNDATION AND SURFACING	<input type="checkbox"/>	<input type="checkbox"/>		
8	ROOF STRUCTURE	<input type="checkbox"/>	<input type="checkbox"/>		
9	STAIRS, WALKWAYS	<input type="checkbox"/>	<input type="checkbox"/>		
10	DRAINAGE FROM AND AROUND TANK	<input type="checkbox"/>	<input type="checkbox"/>		
11	MISC.	<input type="checkbox"/>	<input type="checkbox"/>		

+ Settlement Record Overleaf  
 \* Delete as appropriate

SETTLEMENT RECORD

TANK NO. \_\_\_\_\_ : DIAMETER = \_\_\_\_\_ METRES : HEIGHT = \_\_\_\_\_ METRES

SURVEY MEASUREMENTS TAKEN ON \_\_\_\_\_ (DATE)

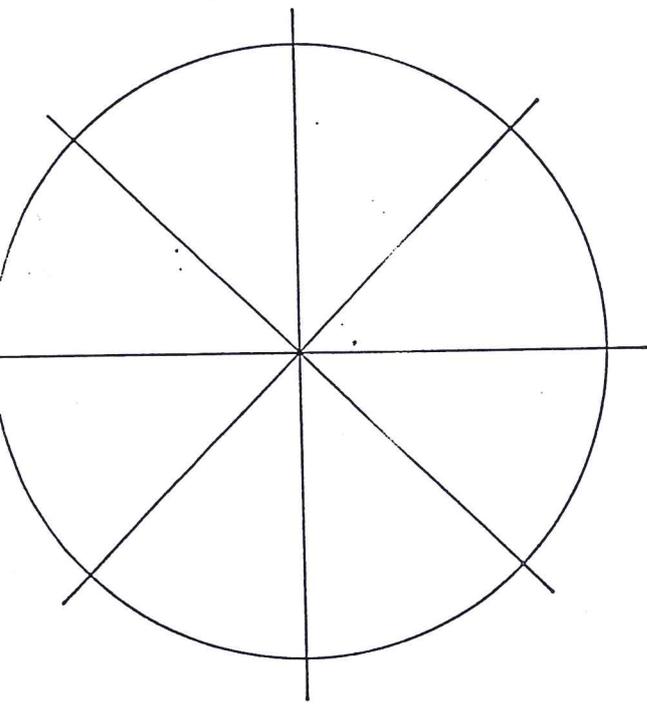
MAXIMUM DIAMETRIC DIFFERENTIAL SETTLEMENT = \_\_\_\_\_ MM BETWEEN PERIMETER POINTS \_\_\_\_\_

MAXIMUM ANGULAR DISTORTION = 1 : \_\_\_\_\_ BETWEEN PERIMETER POINTS \_\_\_\_\_

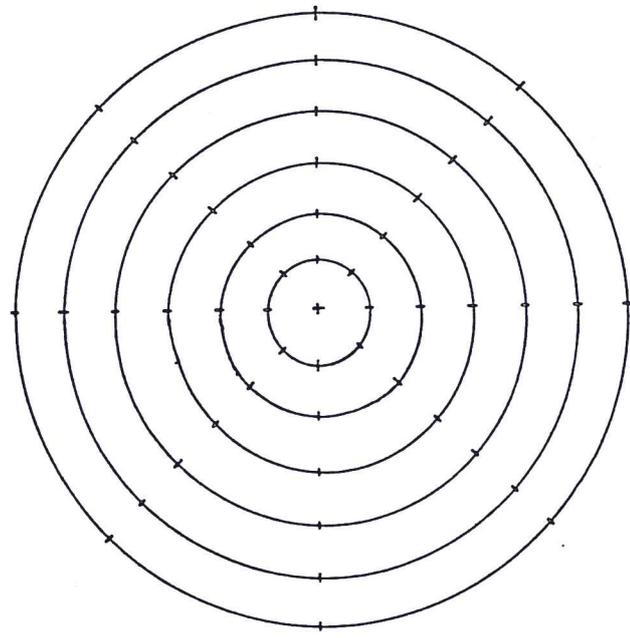
MAXIMUM TILT = \_\_\_\_\_ MM

BASE PLATE CENTRE LEVEL = \_\_\_\_\_ METRES P.D.

MINIMUM MEASURED THICKNESS OF BASE PLATE = \_\_\_\_\_ MM



PERIMETER LEVELS



BASE PLATE CONTOUR PLAN



.....  
Signature of Registered Structural Engineer

.....  
Address of Registered Structural Engineer

e. Director of Fire Services

**INSPECTION OF TANKS**  
**BUILDING (OIL STORAGE INSTALLATIONS) REGULATIONS**  
**REGULATION 8(1)(b)**  
**CERTIFICATE OF EXTERNAL INSPECTION**

....., 19 .....

In accordance with the provisions of Regulation 8(1)(b) of the Building (Oil Storage Installation) Regulations, I .....  
Registered Structural Engineer, hereby CERTIFY that I have \*inspected/supervised the external inspection of the tank forming part of the oil storage installation operated by ..... (Company)  
..... address  
..... lot No.  
and in my opinion this tank is

structurally sound and fit for service for a further twelve months \*and the undernoted corrective measures are required

unfit for service until the undernoted measures are completed to my satisfaction

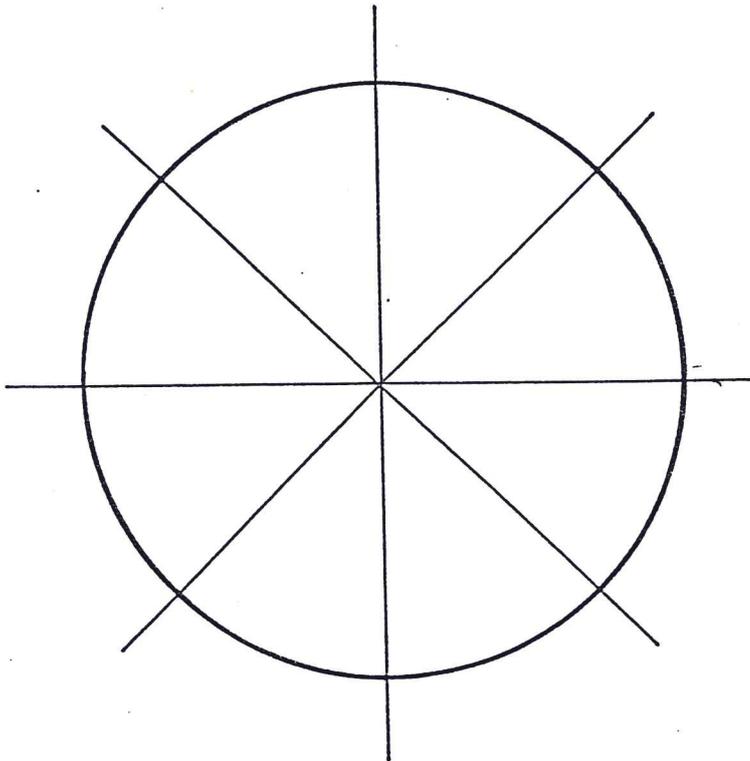
TANK NO.	CAPACITY	FIXED OR FLOATING ROOF	YEAR BUILT	DATE OF INSPECTION
BA	CO.			
No.	INSPECTION ITEM	CONDITION		REMARKS/RECOMMENDATION FOR CORRECTIVE MEASURES
		SATISFACTORY	REPAIR	
1	ULTRASONIC TEST 1ST/2ND COURSES	<input type="checkbox"/>	<input type="checkbox"/>	
2	EXTERNAL/INSULATION PAINTWORK	<input type="checkbox"/>	<input type="checkbox"/>	
3	SETTLEMENT+	<input type="checkbox"/>	<input type="checkbox"/>	
4	PERIPHERAL BASE SEAL	<input type="checkbox"/>	<input type="checkbox"/>	
5	EXPOSED BOTTOM/PLATE/JOINT	<input type="checkbox"/>	<input type="checkbox"/>	
6	EARTH CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	
7	TANK FOUNDATION AND SURFACING	<input type="checkbox"/>	<input type="checkbox"/>	
8	ROOF STRUCTURE	<input type="checkbox"/>	<input type="checkbox"/>	
9	STAIRS, WALKWAYS	<input type="checkbox"/>	<input type="checkbox"/>	
10	DRAINAGE FROM AND AROUND TANK	<input type="checkbox"/>	<input type="checkbox"/>	
11	MISC.	<input type="checkbox"/>	<input type="checkbox"/>	

+ Settlement Record Overleaf

\* Delete as appropriate

SETTLEMENT RECORD

TANK NO. _____ :	DIAMETER = _____	METRES :	HEIGHT = _____	METRES
SETTLEMENT MEASUREMENTS TAKEN ON _____				(DATE)
LEVEL OF PRODUCT IN TANK	=			METRES
MAXIMUM DIAMETRIC DIFFERENTIAL SETTLEMENT	=			MM BETWEEN PERIMETER POINTS _____
MAXIMUM ANGULAR DISTORTION	=	1 :	_____	BETWEEN PERIMETER POINTS _____
MAXIMUM TILT	=			MM



.....  
Signature of Registered Structural Engineer

.....  
Address of Registered Structural Engineer

c.c. Director of Fire Services