



MOORECONCRETE

ABOVE GROUND SLURRY STORE



Above ground post-tensioned tanks

Suitable for agriculture, water storage, sewage treatment works
Up to 1 million gallon capacity

www.moore-concrete.com



ABOVE GROUND SLURRY STORE

The Moore Concrete Above Ground Slurry Store offers the farmer the optimum combination in economy, reliability and durability.

The post-tensioned tank is designed and constructed in accordance with state-of-the-art and proven Danish technology and to comply with all Nitrate Directive Legislation. This tried and tested system has been in use for over 20 years.



Complete Package:

We offer customers a complete service including:

- Supply & Construction of the Concrete Base
- Erection of the Post Tensioned Tank
- Supply & Installation of a Precast Reception Tank
- Supply & Placement of Platform, Ladder, Jetter & Double Sluice Valves
- Certification by a Chartered Engineer
- Mixing equipment including Side Mixers and Up & Over Mixers
- Bubbler systems can also be incorporated in your design

Construction Timeline:

The Moore Concrete Slurry Store is extremely quick to install. The client selects and clears the site for the Slurry Store. Our engineer inspects the ground and specifies stone requirements. When this has been laid and compacted the Moore Concrete team arrive on site.

RAPID INSTALLATION – JUST 7 DAYS ON SITE

DAY 1	DAY 2	7 DAY CURING PERIOD CONCRETE BASE	DAY 3	DAY 4	DAY 5	DAY 6	7 DAY CURING PERIOD CONCRETE RINGBEAM	DAY 7
--------------	--------------	--------------------------------------	--------------	--------------	--------------	--------------	--	--------------

Day 1: Setup base for store

Day 2: Pour concrete base for store

Day 3&4: Placement of Vertical Wall Elements, Placement of Post-Tensioning Cables & Initial Stressing

Day 5&6: Sealing of Vertical Joints with Expansive Mortar. Pouring of Ring Beam

Day 7: Final stressing of Post-Tensioning Cables. Tank is now ready to be filled with slurry

(Timeline based on a 1 million gallon store)

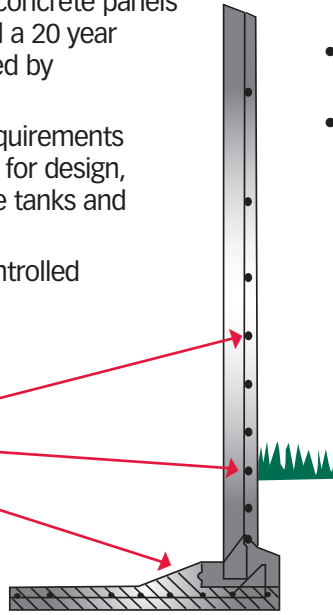


DURABLE WATERTIGHT CONSTRUCTION

- All tanks are constructed with concrete panels having a 50 year design life and a 20 year engineer's certificate as required by SSAFO regulations
- The store complies with the requirements of BS 5502-50 Code of Practice for design, construction and use of storage tanks and reception pits
- Panels are manufactured in controlled factory conditions to ISO 9001

STEEL TENSIONING CABLES
PRECAST CONCRETE ELEMENT
INSITU CONCRETE BASE

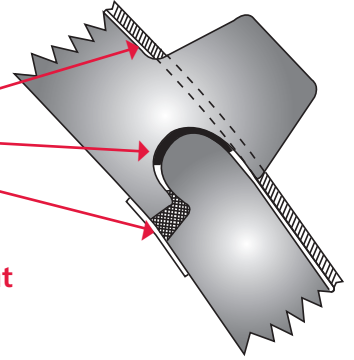
Section of Tank Wall



- Post tensioned cables are encased in a PVC sheath filled with grease to protect them for the lifetime of the store and no maintenance is required
- The store panels will not be damaged when jetting or mixing the slurry, should foreign objects be present
- 3 part seal ensures all joints are in compression and are completely watertight and maintenance free for life of the store
 - Bitumen strip between each panel
 - Post tensioned cable
 - Expansive mortar

STEEL TENSIONING CABLES
JOINT PACKING
EXPANSIVE MORTAR

Detail of Sealed Joint



OTHER OPTIONS

TANK COVERS

Moore Concrete has the distribution rights for the Lundsby Soft Cover of Denmark. The covers ensure a durable and effective seal for the tank, keeping rainwater out and smell in. The cover can be installed either at the erection of the new tank or later, although it is preferable to install the cover when the tank is new.

BACKFILLING AND SUBMERGING OF TANKS

Tanks can be backfilled on one side of the store to a maximum height of 1m, greater heights should be discussed and agreed prior to erection. This allows additional options as to the choice of site for the Above Ground Store.

Tanks can also be partially or fully buried in the ground with prior consultation and agreement.

Following inspection of the ground and a test pit, our engineer would confirm the technical specifications.

MIXING AND DRAWING OFF

Moore Concrete Slurry Stores can be provided with efficient mixing equipment including:

- Side Stirrers • Jetter • Up and Over Mixers • Bubbler Systems
- Umbilical Under Wall Draw Off Points • Gravity Pipe Infilling

ANAEROBIC DIGESTION

Our Above Ground Stores are also used in the construction of Moore Concrete Biogas Plants.

Contact Moore Biosystems on 028 2565 2566
or visit www.moore-biosystems.com for more information.



MOORECONCRETE

ABOVE GROUND SLURRY STORE



TANK DATA

The tank is available in 3 heights: 4m high elements (up to 692,560 gallons),
5m high elements (up to 863,280 gallons) and 6m high elements (up to 1,034,000 gallons).

4m high elements		5m high elements		6m high elements		Elements	Diameter of tank	Diameter of concrete base	Diameter of excavation	Footprint area of concrete base
Tank Volume	Tank Capacity	Tank Volume	Tank Capacity	Tank Volume	Tank Capacity					
m ³	Gallons	m ³	Gallons	m ³	Gallons	Number	m	m	m	m ²
337	74,140	420	92,400	504	110,880	18	10.32	10.88	12.88	93
376	82,720	468	102,960	561	123,420	19	10.88	11.44	13.44	103
417	91,740	519	114,180	622	136,840	20	11.44	12.02	14.00	114
459	100,980	572	125,840	685	150,700	21	12.02	12.58	14.58	125
504	110,880	628	138,160	752	165,440	22	12.58	13.14	15.14	136
551	121,220	686	150,920	822	180,840	23	13.16	13.96	15.96	153
600	132,000	747	164,340	895	196,900	24	13.72	14.28	16.28	160
650	143,000	811	178,420	971	213,620	25	14.30	14.86	16.86	174
703	154,660	877	192,940	1,051	231,220	26	14.86	15.42	17.42	187
758	166,760	946	208,120	1,133	249,260	27	15.42	16.00	18.00	201
815	179,300	1,017	223,740	1,218	267,960	28	16.00	16.56	18.56	216
876	192,720	1,091	240,020	1,307	287,540	29	16.56	17.14	19.20	231
937	206,140	1,167	256,740	1,400	308,000	30	17.14	17.70	19.70	246
1,000	220,000	1,247	274,340	1,493	328,460	31	17.70	18.26	20.26	262
1,066	234,520	1,328	292,160	1,591	350,020	32	18.28	18.84	20.84	279
1,134	249,480	1,413	310,860	1,692	372,240	33	18.84	19.40	21.40	296
1,203	264,660	1,500	330,000	1,796	395,120	34	19.42	20.00	22.00	314
1,275	280,500	1,589	349,580	1,904	418,880	35	19.98	20.54	22.54	332
1,349	296,780	1,681	369,820	2,014	443,080	36	20.56	21.12	23.12	351
1,424	313,280	1,776	390,720	2,128	468,160	37	21.12	21.68	23.68	369
1,503	330,660	1,873	412,060	2,244	493,680	38	21.64	22.26	24.20	389
1,583	348,260	1,973	434,060	2,364	520,080	39	22.18	22.82	24.82	409
1,665	366,300	2,076	456,720	2,486	546,920	40	22.78	23.40	25.40	430
1,750	385,000	2,181	479,820	2,612	574,640	41	23.34	23.94	25.94	450
1,836	403,920	2,288	503,360	2,741	603,020	42	23.88	24.54	26.54	473
1,924	423,280	2,400	528,000	2,873	632,060	43	24.46	25.08	27.08	494
2,015	443,300	2,511	552,420	3,009	661,980	44	25.02	25.68	27.68	518
2,108	463,760	2,627	577,940	3,147	692,340	45	25.60	26.22	28.20	540
2,203	484,660	2,745	603,900	3,288	723,360	46	26.14	26.82	28.82	565
2,300	506,000	2,865	630,300	3,433	755,260	47	26.70	27.36	29.36	588
2,398	527,560	2,989	657,580	3,581	787,820	48	27.30	27.96	29.96	614
2,499	549,780	3,115	685,300	3,731	820,820	49	27.88	28.54	30.54	639
2,601	572,220	3,243	713,460	3,885	854,700	50	28.38	29.12	31.12	666
2,707	595,540	3,374	742,280	4,042	889,240	51	29.00	29.96	31.68	692
2,814	619,080	3,508	771,760	4,202	924,440	52	29.56	30.24	32.24	718
2,924	643,280	3,644	801,680	4,365	960,300	53	30.14	30.82	32.82	746
3,035	667,700	3,783	832,260	4,532	997,040	54	30.72	31.40	33.40	774
3,148	692,560	3,924	863,280	4,700	1,034,000	55	31.26	31.96	33.96	802

NOTE: The above capacities are the total gross capacities of the tanks.
Customers should be aware of local requirements concerning allowances for freeboard and rainfall.
For further information please contact the Moore Concrete Sales Team.

Moore Concrete Products Ltd, Caherty House, 41 Woodside Road,
Ballymena, County Antrim, Northern Ireland BT42 4QH

Tel: +44 (0) 28 2565 2566 Fax: +44 (0) 28 2565 8480

Web: www.moore-concrete.com Email: info@moore-concrete.com



INVESTOR IN PEOPLE

