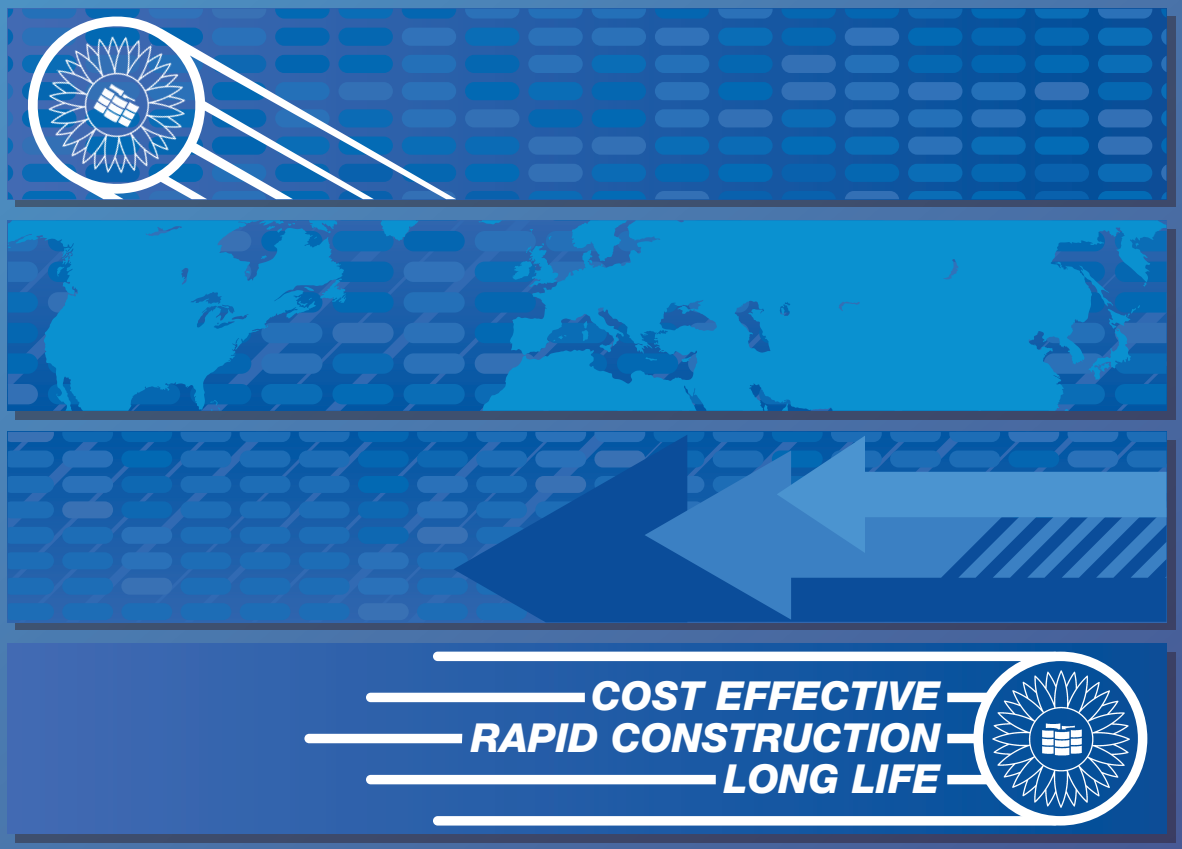
Worldwide Biofuel Containment Solutions



BIOTANQ®

BIOFUEL-CONTAINMENT-SOLUTIONS

THE COMPANY

BIOTANQ is the Biofuel division of Permastore Limited who are the market leaders in the manufacture and supply of Glass-Fused-to-Steel Tanks and Silos. Since 1959 the Company has been providing durable and cost effectively engineered containment solutions in Municipal and aggressive Industrial environments worldwide. In over 110 countries in excess of 90,000 structures have been installed each with the ability to withstand local environmental extremes, from the cold of the arctic to the heat of the desert.

BIOTANQ®
"The Product of Choice" for all your biofuel containment solutions around the world

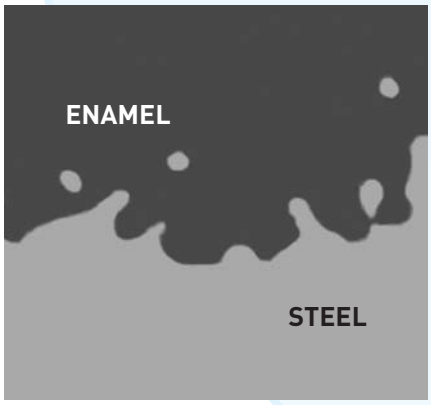
- **Production** – All controlled at one manufacturing site, thereby simplifying the supply chain and providing a seamless service to meet Customers' requirements.
- **Technical Support** – An experienced team that interacts with our Customer base to ensure Customer demand is met.
- **Modern Manufacturing Facility** – A state of the art factory dedicated solely to the production of Glass-Fused-to-Steel product.
- **Advanced Glass-Fused-to-Steel Technology** – This provides the ultimate in corrosion resistance for the life of the structure.
- **ISO 9001:2000** – Accreditation of quality awarded since 1996 demonstrating our ability to consistently provide products and services that meet customer and regulatory requirements.
- **International Standards** – BIOTANQ's quality systems meet or exceed the glass coating requirements of ISO 28765:2008, EEA 7.20 and AWWA D103-97 amongst others.
- **Approved and Verified by International Bodies** – Including DWI, NSF and MPA NRW.
- **In-house Engineering Design and Contract Management** – This provides reassurance that all structures arrive on schedule and are fit for purpose.

THE SOLUTION

WHAT IS GLASS-FUSED-TO-STEEL?

Glass-Fused-to-Steel is a unique tank finish. Two materials are fused together to achieve the best of both materials – the strength and flexibility of steel combined with the corrosion resistance of glass. Applied to both interior and exterior surfaces, Glass-Fused-to-Steel is able to provide many years of trouble free service in harsh environments.

- High performance and hard wearing
- As strong and flexible as steel
- Inert Silica Glass
- Colour fast / UV Stable



THE QUALITY

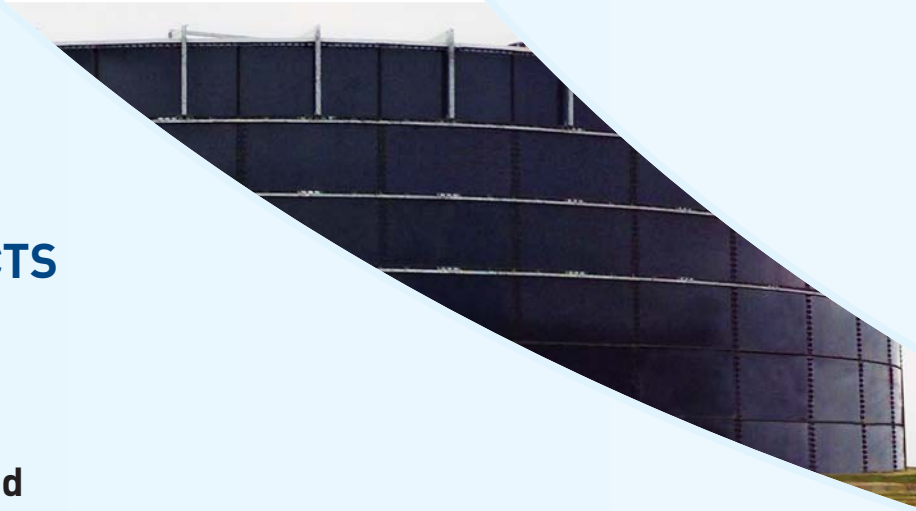
Is guaranteed – long-lasting and durable.

A philosophy enshrined in BIOTANQ's procedures, which exceed the requirements of International Enamelling Standards. The industrial grade finish is subject to 100% inspection and electronic testing of the contact surface. Any panel having a discontinuity is rejected.

We have earned our reputation by dedication to the highest quality and commitment to ZERO DISCONTINUITY glass fusion.

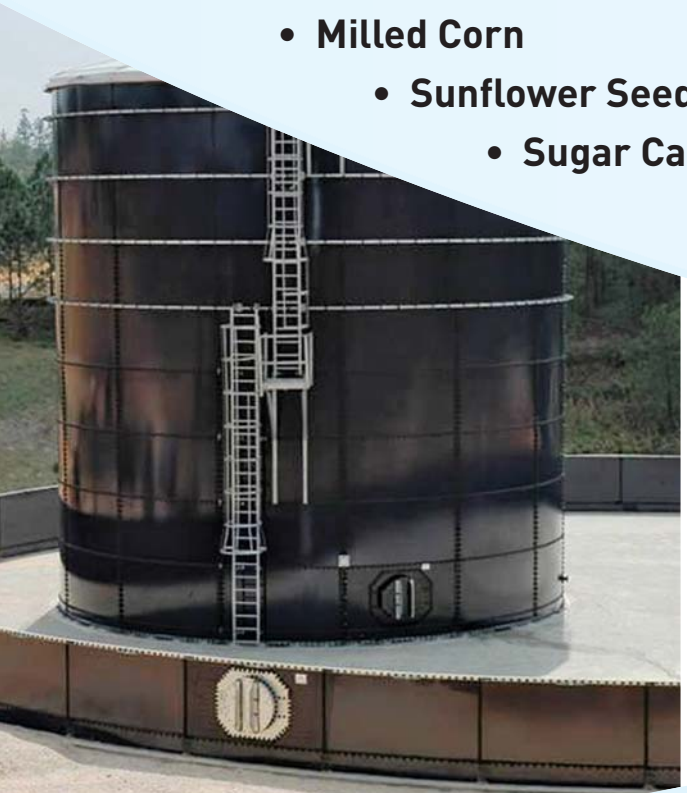
BIODIESEL PRODUCTS

- Rapeseed Oil
- Soybean Oil
- Sunflower Oil
- Palm Oil



BIOETHANOL PRODUCTS

- Wheat Grain
- Milled Corn
- Sunflower Seed
- Sugar Cane Molasses



BENEFITS FOR THE END USER

BIOTANQ's Glass-Fused-to-Steel finish combined with its modular design and build concept, offers an array of benefits to contractors and end users.

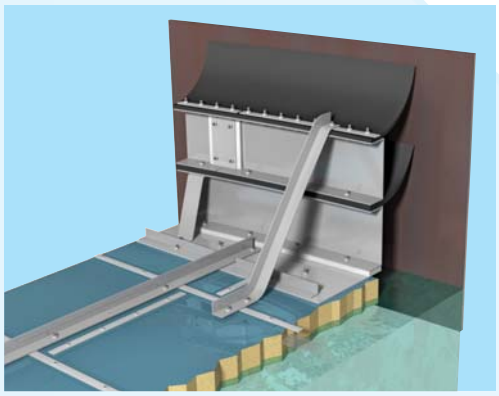
- **Long Life**
- **Low Capital Cost**
- **Low Maintenance Costs**
- **Rapid Site Installation Times**
- **Economic Worldwide Shipments**
- **Flexibility to Re-model, Extend, Dismantle and Re-site**
- **Optimum Corrosion Resistance**

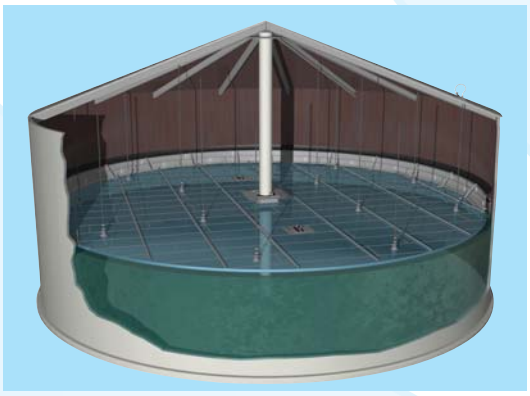
The Complete Package

ROOF SOLUTIONS

There are a number of roof options available for the containment of Biofuels. These include:

- **Geodesic Dome**
- **Trough Deck Roof**
- **Floating Roof**
- **Glass-Fused-to-Steel Roof**





CAPACITY CHART

NOMINAL WALL HEIGHT 7.03m or 25ft (5 RINGS)

Model	Tank Diam		Capacity	
	(feet)	(m)	Actual (m³)	(US Petroleum) Barrels
3425	33.62	10.25	579	3,642
4825	47.63	14.52	1,163	7,315
5625	56.03	17.08	1,609	10,120
6425	64.44	19.64	2,128	13,385
7325	72.84	22.20	2,720	17,108
7825	78.44	23.91	3,154	19,838
8425	84.05	25.62	3,621	22,775
9025	89.65	27.33	4,120	25,914
9525	95.25	29.03	4,651	29,254
10125	100.86	30.74	5,214	32,795
10625	106.46	32.45	5,810	36,544
10925	109.26	33.30	6,120	38,494
11525	114.86	35.01	6,763	42,538
11825	117.67	35.86	7,097	44,639
12325	123.27	37.57	7,789	48,991
12625	126.07	38.43	8,147	51,243
13225	131.67	40.13	8,888	55,904
13425	134.48	40.99	9,270	58,307
13725	137.28	41.84	9,660	60,760
14325	142.88	43.55	10,465	65,823
17425	173.70	52.94	15,466	97,278
19925	198.91	60.63	20,282	127,570
22125	221.32	67.46	25,110	157,937
24425	243.73	74.29	30,453	191,544

NOMINAL WALL HEIGHT 8.43m or 30ft (6 RINGS)

Model	Tank Diam		Capacity	
	(feet)	(m)	Actual (m³)	(US Petroleum) Barrels
3130	30.82	9.39	584	3,673
4230	42.02	12.81	1,086	6,831
5030	50.43	15.37	1,563	9,831
5930	58.83	17.93	2,128	13,385
6430	64.44	19.64	2,553	16,058
7330	72.84	22.20	3,262	20,517
7830	78.44	23.91	3,783	23,794
8130	81.25	24.76	4,058	25,524
8730	86.85	26.47	4,637	29,166
9230	92.45	28.18	5,255	33,053
9530	95.25	29.03	5,578	35,085
10130	100.86	30.74	6,253	39,330
10430	103.66	31.59	6,606	41,550
10930	109.26	33.30	7,339	46,161
11230	112.06	34.16	7,720	48,557
11530	114.86	35.01	8,111	51,017
11830	117.67	35.86	8,511	53,533
12330	123.27	37.57	9,341	58,753
12630	126.07	38.43	9,771	61,458
12930	128.87	39.28	10,210	64,219
16030	159.69	48.67	15,677	98,605
18230	182.10	55.50	20,386	128,224
20530	204.52	62.33	25,713	161,730
22430	224.13	68.31	30,880	194,229

NOMINAL WALL HEIGHT 11.23m or 40ft (8 RINGS)

Model	Tank Diam		Capacity	
	(feet)	(m)	Actual (m³)	(US Petroleum) Barrels
2540	25.21	7.69	521	3,277
3640	36.42	11.10	1,086	6,831
4540	44.83	13.66	1,646	10,353
5040	50.43	15.37	2,083	13,102
5640	56.03	17.08	2,571	16,171
6240	61.63	18.79	3,111	19,568
6740	67.24	20.49	3,703	23,291
7340	72.84	22.20	4,346	27,336
7640	75.64	23.06	4,686	29,474
7840	78.44	23.91	5,040	31,701
8440	84.05	25.62	5,786	36,393
8740	86.85	26.47	6,178	38,858
9040	89.65	27.32	6,583	41,406
9540	95.25	29.03	7,431	46,740
9840	98.06	29.89	7,875	49,532
10140	100.86	30.74	8,331	52,400
10440	103.66	31.59	8,801	55,357
10640	106.46	32.45	9,283	58,388
10940	109.26	33.30	9,778	61,502
11240	112.06	34.16	10,286	64,697
13740	137.28	41.84	15,435	97,083
15740	156.89	47.82	20,160	126,803
17640	176.50	53.79	25,514	160,478
19340	193.31	58.92	30,605	192,500

NOMINAL WALL HEIGHT 14.03m or 50ft (10 RINGS)

Model	Tank Diam		Capacity	
	(feet)	(m)	Actual (m³)	(US Petroleum) Barrels
3950	39.22	11.95	1,574	9,900
4550	44.83	13.66	2,056	12,932
5050	50.43	15.37	2,602	16,366
5650	56.03	17.08	3,213	20,209
5950	58.83	17.93	3,542	22,279
6450	64.44	19.64	4,249	26,725
6750	67.24	20.49	4,626	29,097
7350	72.84	22.20	5,430	34,154
7650	75.64	23.06	5,855	36,827
7850	78.44	23.91	6,297	39,607
8150	81.25	24.76	6,755	42,488
8450	84.05	25.62	7,229	45,469
8750	86.85	26.47	7,719	48,551
9050	89.65	27.32	8,225	51,734
9250	92.45	28.18	8,747	55,017
9550	95.25	29.03	9,285	58,401
9850	98.06	29.89	9,839	61,885
10150	100.86	30.74	10,409	65,471
12350	123.27	37.57	15,549	97,800
14350	142.88	43.55	20,890	131,394
15750	156.89	47.82	25,188	158,428
17450	173.70	52.94	30,874	194,192
19950	198.91	60.63	40,489	254,668
22450	224.13	68.31	51,404	323,321

= Most cost effective tank model for volume requirement