

RAW MATERIAL BACK - UP



CV. RAFA MITRA SELARAS

sangat selektif dalam menggunakan resin kualitas tinggi dan komponen lainnya FRP baku untuk memproduksi jenis unggul tangki fiberglass dan pipa.

Nikmati satu investasi waktu Anda, bebas masalah. Tidak diperlukan pemeliharaan, karena kami desain produk secara khusus dan telah memiliki bahan anti korosif.

HETRON - H 922



DERAKANE - D411



DICLITE FW - 231



ATLAC 382



**R - 802
LP - 1.Q**

**SHOWA
HIGHPOLYMER**

REINFORCEMENT :

**GLASS FIBRE
ROVING YARN**



CV. RAFA MITRA SELARAS

FIBREGLASS MANUFACTURE



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Fax. : 021 - 8088 3512
Email : marketing@rms.com
Website : www.royalfibreglass.com



Product Line

- Ø Raw Water Storage Tank
- Ø Chemical Storage & Mixing Tank
- Ø Chemical Processing Tank
- Ø Food Storage Tank
- Ø CPO Storage Tank
- Ø Fuel Storage Tank
- Ø Waste Water Storage Tank
- Ø Clean Water Storage Tank
- Ø Pressure Vessel
- Ø Scrubber , Stack, Silo & Ducting
- Ø Chemical Transport Tank
- Ø Cooling Water Tank
- Ø Ground Storage Tank
- Ø Customized Application
- Ø Process & Effluent Pipe
- Ø Sea Water Intake Pipe
- Ø Cooling Water Pipe
- Ø Chemical Pipe
- Ø Waste Water Piping
- Ø Raw Water Piping
- Ø Fire Hydrant Piping
- Ø Oil Pipe Line
- Ø Pipe Ducting
- Ø FRP Lining Steel & Concrete

ROYAL FIBER TANK

Digunakan di berbagai industri seperti INDUSTRI MAKANAN, TEXTILE, INDUSTRI KIMIA, OIL & GAS, dll.

KEUNGGULAN :

- MENGGUNAKAN ANTI UV
- KUAT
- TAHAN LAMA
- TAHAN KARAT
- PERAWATAN RELATIF MUDAH
- LEBIH RINGAN DARI MATERIAL LAIN

Sistim Fabrikasi

kami bertujuan untuk menghasilkan hasil berkualitas tinggi dengan menggunakan bahan baku **Resin** untuk perlawanan yang paling korosi **Polyester, Resin** yang kuat terhadap **Chemical** tinggi (**vinly ester**) dan dalam kombinasi dengan berbagai jenis penguat serat gelas. Metode produksi termasuk **Hand Lay Up**, teknologi filamen dikontrol oleh sistem komputerisasi sehingga menghasilkan kekuatan mekanik yang tinggi dan mudah dibentuk. Produk kami dibuat berdasarkan spesifikasi teknis yang direkomendasikan oleh **ACMA (American Composites Manufactures Association)**.

Hand Lay Up Product



MODERN SEPTIC TANK

HEAT EXCHANGER



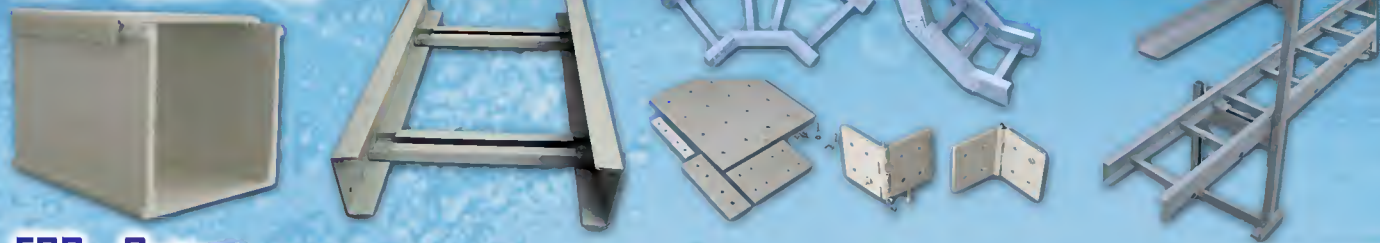
GRASE TRAP



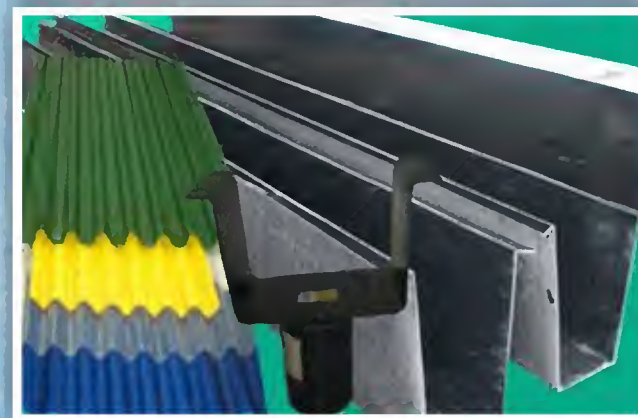
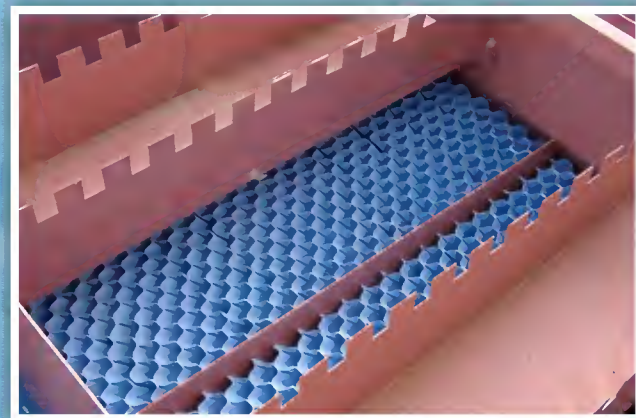
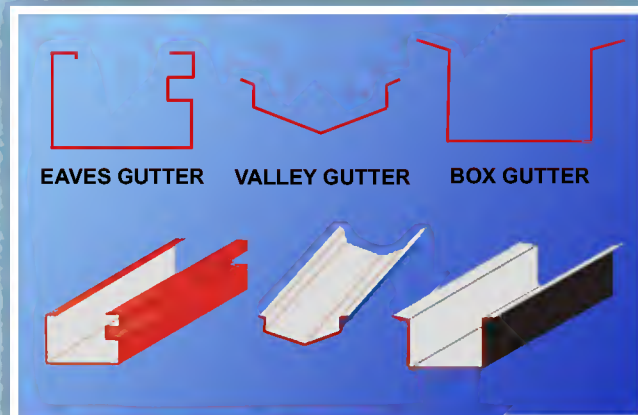
PORTABLE TOILET

Other Product

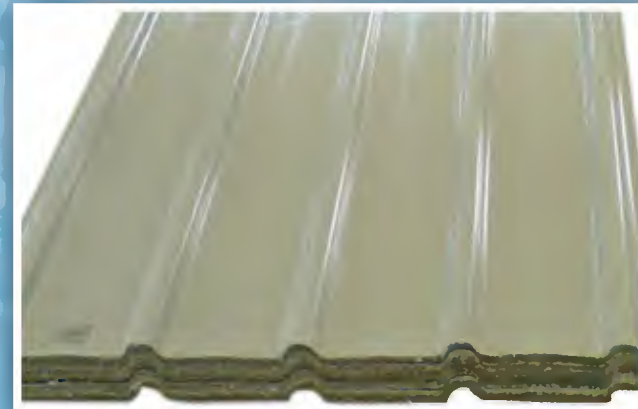
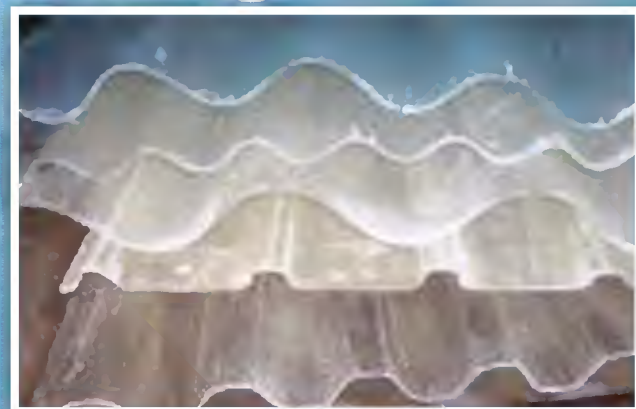
FRP - Cable Tray



FRP - Gutter



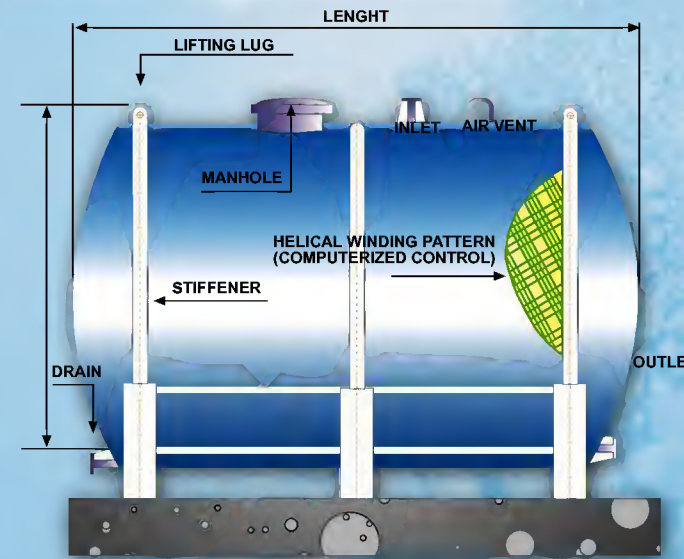
FRP - Roof Light



Physical Properties of FRP Compared to Others Materials

| Material | FRP | FRP | Steel | Stainless | Aluminium | Vinyl Chloride |
|--|-------------|---------------------|-------------|---------------|---------------|----------------|
| Item | Hand Lay Up | FW Filament Winding | SS 41 Grade | SUS 316 Grade | General Grade | General Grade |
| Specific Gravity (Berat Jenis) | 1.5 - 1.7 | 1.8 - 2.0 | 7.8 | 7.9 | 2.7 | 1.47 |
| Flexural Strength kg/mm2 (Kekuatan Lentur/Bengkok) | 15 - 25 | 20 - 30 | - | - | - | 7 - 11 |
| Tensile Strength kg/mm2 (Kekuatan Tarik) | 9 - 15 | 30 - 35 | 20 - 23 | 21 - 35 | 4.2 - 19 | 3 - 5 |
| Heat Conductivity kcal/m hr oC (Kemampuan Menghantar Panas) | 0.2 - 0.25 | 0.23 - 0.25 | 32 - 57 | 12 - 23 | 100 - 200 | 0.2 |
| Water Absorption % (Kemampuan Menyerap Air) | 0.1 - 0.2 | 0.1 - 0.2 | - | - | - | 0.1 - 0.4 |
| Specific Heat cal/g oC (Panas Jenis) | 0.31 - 0.33 | 0.31 - 0.33 | 0.1 | 0.11 | 0.22 | 0.2 - 0.3 |
| Hardness (Barcol) (Kekerasan) | 35 - 50 | 35 - 50 | - | - | - | - |
| Flexural Modulus of Elasticity kg/mm2 (Modulus Elastisitas Lentur) | 700 - 900 | 1500 - 2500 | 21000 | 21000 | 7000 | 300 |

Tank Specifications

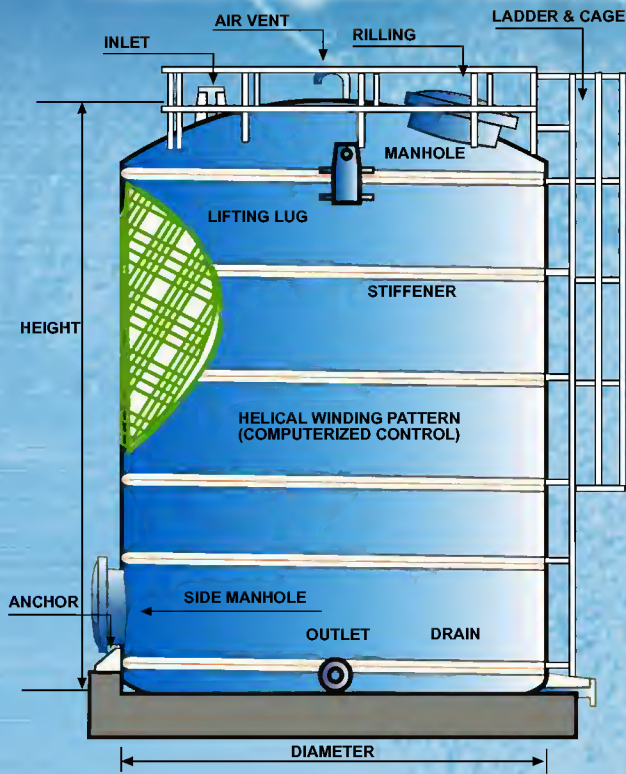


TECHNICAL INFORMATION

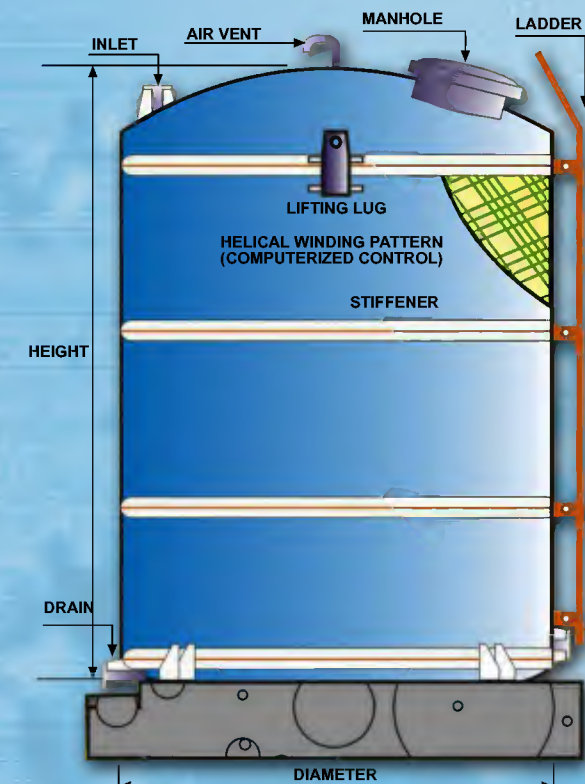
1. FRP TANK - HORIZONTAL TYPE

| HORIZONTAL TANK DIMENSION EX BUILT FACTORY | | |
|--|---------------|-------------|
| VOLUME (M3) | DIAMETER (MM) | LENGTH (MM) |
| 5 | 1.500 | 2.850 |
| 6 | 1.500 | 3.400 |
| 8 | 2.000 | 2.550 |
| 10 | 2.000 | 3.200 |
| 15 | 2.500 | 3.100 |
| 20 | 2.500 | 4.100 |
| 25 | 2.750 | 4.200 |
| 30 | 2.750 | 5.900 |
| 35 | 3.000 | 5.000 |
| 40 | 3.000 | 5.700 |
| 45 | 3.000 | 6.400 |
| 50 | 3.000 | 7.100 |
| 60 | 3.200 | 7.500 |
| 70 | 3.400 | 7.800 |

Tank Specifications



Vertical Tank (On site Construction)



Vertical Tank (Built Ex. Factory)

TECHNICAL INFORMATION

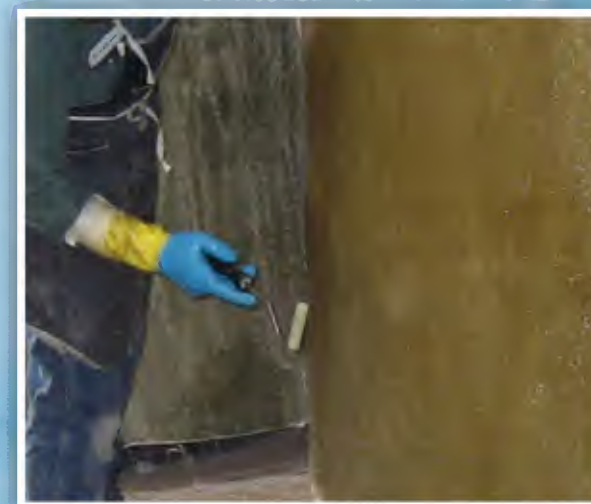
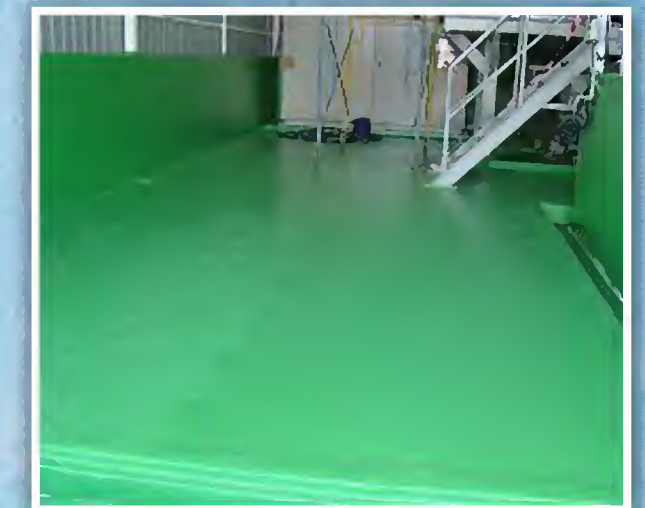
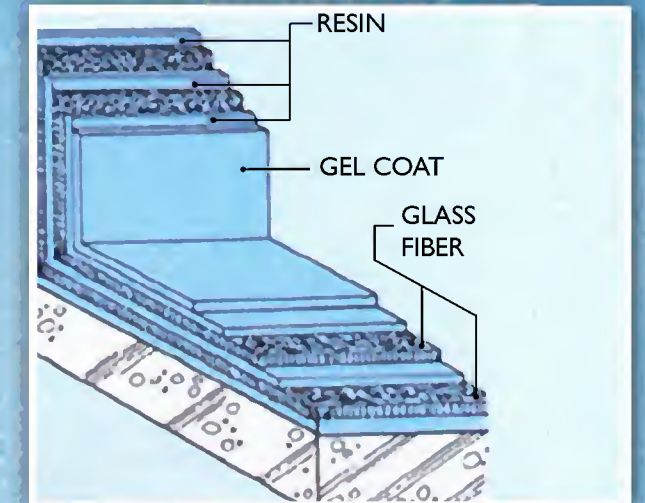
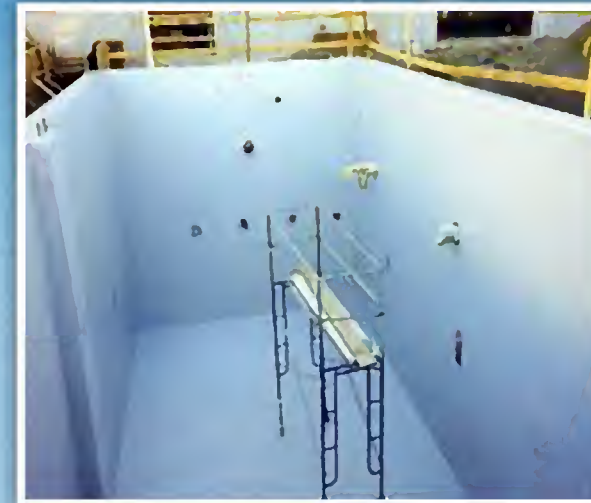
1. FRP STORAGE TANK - ONE SITE Construction

| STORAGE TANK DIMENSION EX BUILT FACTORY | | | |
|---|-----------------|---------------|-------------------|
| VOLUME (M3) | DIAMETER (MM) | HEIGHT (MM) | FOUNDATION (MM) |
| 100 | 5.000 | 5.100 | 5.500 |
| 150 | 5.500 | 6.400 | 6.200 |
| 200 | 6.000 | 7.100 | 6.700 |
| 250 | 8.000 | 5.000 | 8.700 |
| 300 | 8.000 | 6.000 | 8.800 |
| 400 | 8.000 | 8.000 | 8.900 |
| 500 | 8.000 | 10.000 | 10.900 |
| 600 | 10.000 | 7.700 | 10.900 |
| 700 | 10.000 | 9.000 | 10.900 |
| 800 | 10.000 | 10.200 | 10.900 |
| 900 | 10.000 | 11.500 | 10.900 |
| 1000 | 10.000 | 12.800 | 10.900 |

2. FRP TANK - VERTICAL TYPE

| VERTICAL TANK DIMENSION EX BUILT FACTORY | | |
|--|-----------------|---------------|
| VOLUME (M3) | DIAMETER (MM) | HEIGHT (MM) |
| 0,5 | 800 | 1.000 |
| 1 | 1.000 | 1.275 |
| 1,5 | 1.200 | 1.350 |
| 2 | 1.200 | 1.800 |
| 2,5 | 1.500 | 1.500 |
| 3 | 1.500 | 1.700 |
| 4 | 1.500 | 2.300 |
| 5 | 1.750 | 2.100 |
| 6 | 1.750 | 2.500 |
| 7 | 2.000 | 2.250 |
| 8 | 2.000 | 2.550 |
| 9 | 2.000 | 2.900 |
| 10 | 2.000 | 3.200 |
| 12,5 | 2.000 | 4.000 |
| 15 | 2.500 | 3.100 |
| 20 | 2.750 | 3.400 |
| 25 | 2.750 | 4.250 |
| 30 | 3.000 | 4.250 |
| 40 | 3.000 | 5.700 |
| 50 | 3.000 | 7.100 |
| 60 | 3.500 | 6.300 |
| 70 | 3.500 | 7.400 |
| 75 | 4.000 | 6.100 |
| 90 | 4.000 | 7.300 |
| 100 | 4.500 | 6.500 |
| 125 | 4.500 | 8.000 |

FRP-Lining



Water Slide



Fabrication and Delivery



TANK FABRICATION BY FILAMENT WINDING MACHINE



FRP TANK - JOINT PROCESSING



FRP TANK - HORIZONTAL TYPE ON-SITE



FRP TANK - HORIZONTAL TYPE DELIVERY

FRP - Scrubber, Pipe and Fitting



Cylinder Vertical and Horizontal Tank



Pipe



Fitting



Bell x Spigot (atched Taper) Joint 3" - 60"

Butt & Rap Joint 3" - 96"

Flanged Join #' - 96"

Socket Joint 3" - 14"

