



***Plaztuff™ Hyspec Polymer sheet is an engineering grade specially formulated M-HMWPE made to our exact specification for the purposes of fabricating a wide range of engineering products in multi applications***



***A Range of Many Colours***

***Enviroplaz***  
***[www.Enviroplaz.com](http://www.Enviroplaz.com)***

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# Why Use Plaztuff?



## Hyspec polymer sheet

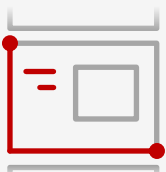
Plaztuff™ sheet has been designed as an alternative to steel, stainless steel, aluminum, fiberglass (FRP/GRP), wood, and other materials in a wide range of applications.

As polymers are long chain molecules, they give Plaztuff materials a memory resulting in high impact resistance unlike metals or glass which have crystalline type structures that dent or fracture.

Plaztuff™ is a super lightweight material that exhibits a good combination of stiffness, toughness, mechanical damping ability with good wear and abrasion resistance and can be easily welded.

Plaztuff™ is an inert material (i.e. the molecular structure is full) and therefore will not rust, rot, corrode, get osmosis or electrolysis and will handle most environments

Plaztuff™ has a low coefficient of friction around (0.29) which results in less drag, surface resistance, making for better performance.



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# Why Use Plaztuff?



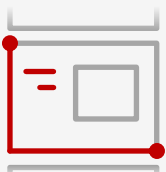
## Plaztuff™ Hyspec™ Polymer Sheet

Plaztuff™ is relatively light with an S.G. of 0.96, approx. 1/3 the weight of aluminum (S.G. 2.7) and fiberglass (S.G. 3) and 7 times lighter than steel/stainless steel (S.G. 7.8).

UV stabilizers are added to ensure a 30 year plus working life.

Plaztuff is also available in a Hi-Grip option for wet surfaces, and a Hi-Slip option for Liners in projects carrying sticky materials such as tipper trucks and hoppers.

Plaztuff Master Batch is specified to customer requirement i.e., Colorants, UV Stabilizers, Fire retardants, and any other Stabilizers required.



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# Material Properties

## Physical Properties

PROPERTIES PHYSICAL	SI	Method (ASTM or UL)
Molecular Weight	< 500,000	-
Density	0.96 g/cm <sup>3</sup>	ASTM D1505
Water Absorption, 24hrs %	0	ASTM D570

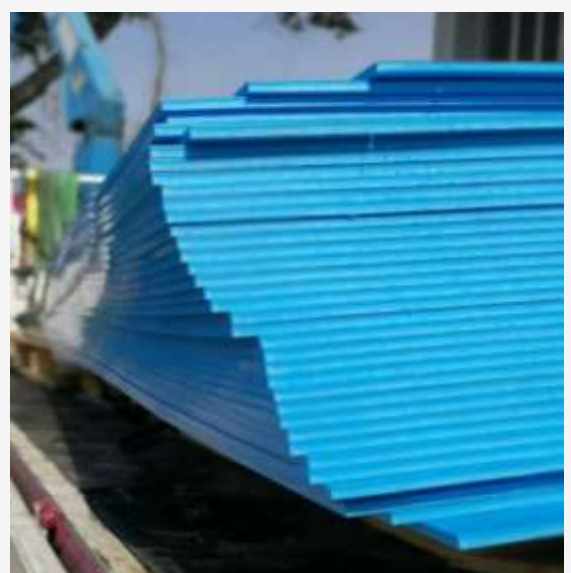
## MECHANICAL

PROPERTIES MECHANICAL	SI	Method (ASTM or UL)
Tensile Strength at Yield, 2 in/min	25 MPa	ASTM D638
Tensile Impact	190 kJ/m <sup>2</sup>	ASTM D1822
Elongation at Break, 2 in/min	500%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	1,400 MPa	ASTM D790
ESCR, Condition A (100% Igepal), F50	>600 h	ASTM D1693
ESCR, Condition B (100% Igepal), F50	>600 h	ASTM D1693
Durometer Hardness	77	ASTM D2240
Dynamic Coefficient of friction	0.07	ASTM D1894



# Plaztuff Sheets & Welding Rod

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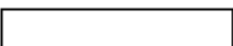



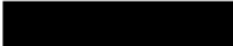


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# Sheet Product List



Code		Colour	Thickness mm	Sheet size mm
<b>Hyslip Sheet</b>				
PLHGR00012	grey/red		12	3000 x1500
PLHGR00010	grey/red		10	3000 x1500
<b>Hyspec standard sheet</b>				
PLSR000012	red		12	3000 x1500
PLSG000012	grey		12	3000 x1500
PLSG000010	grey		10	3000 x1500
PLSW251812	white		12	2500 x1840
PLSW301812	white		12	3000 x1840
PLSY000012	yellow		12	3000 x1500
PLGN000012	green		12	3000 x1500
PLSB000012	black		12	3000 x1500

**and other sizes and colours as required,  
subject to order quantity, typical sizes are  
3mm, 6mm, 8mm, 10mm, 12mm...**

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# APPLICATIONS

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**MARINE**



**ENGINEERING**



**OTHER**

# Marine applications

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**MARINE**



# Pontoon Office



**Flagship Marine: Plaztuff Fabricated Yacht Brokerage Floating Sales Office based in Westhaven Marina Auckland**



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# Floating House



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# Boats



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# Boats



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# Aquarium Pontoons



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# Pontoons and Docks



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# Pontoons and Docks



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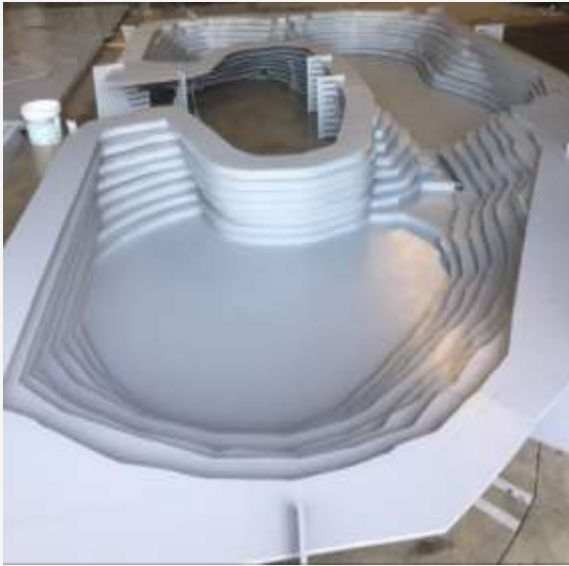
# Walkways and Jettys



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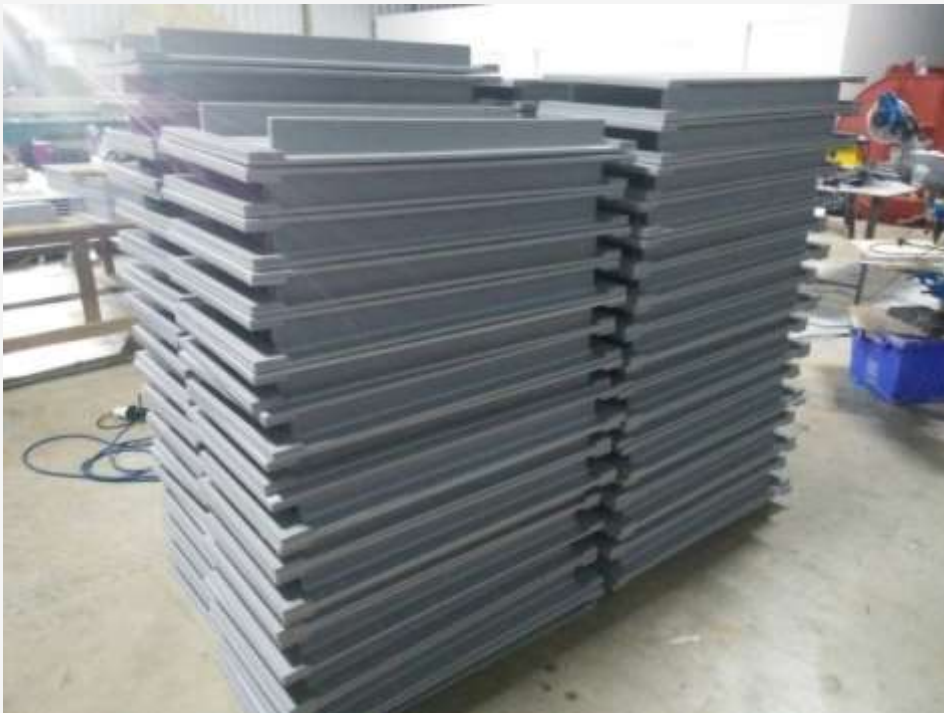


# Aquarium Touch Pool



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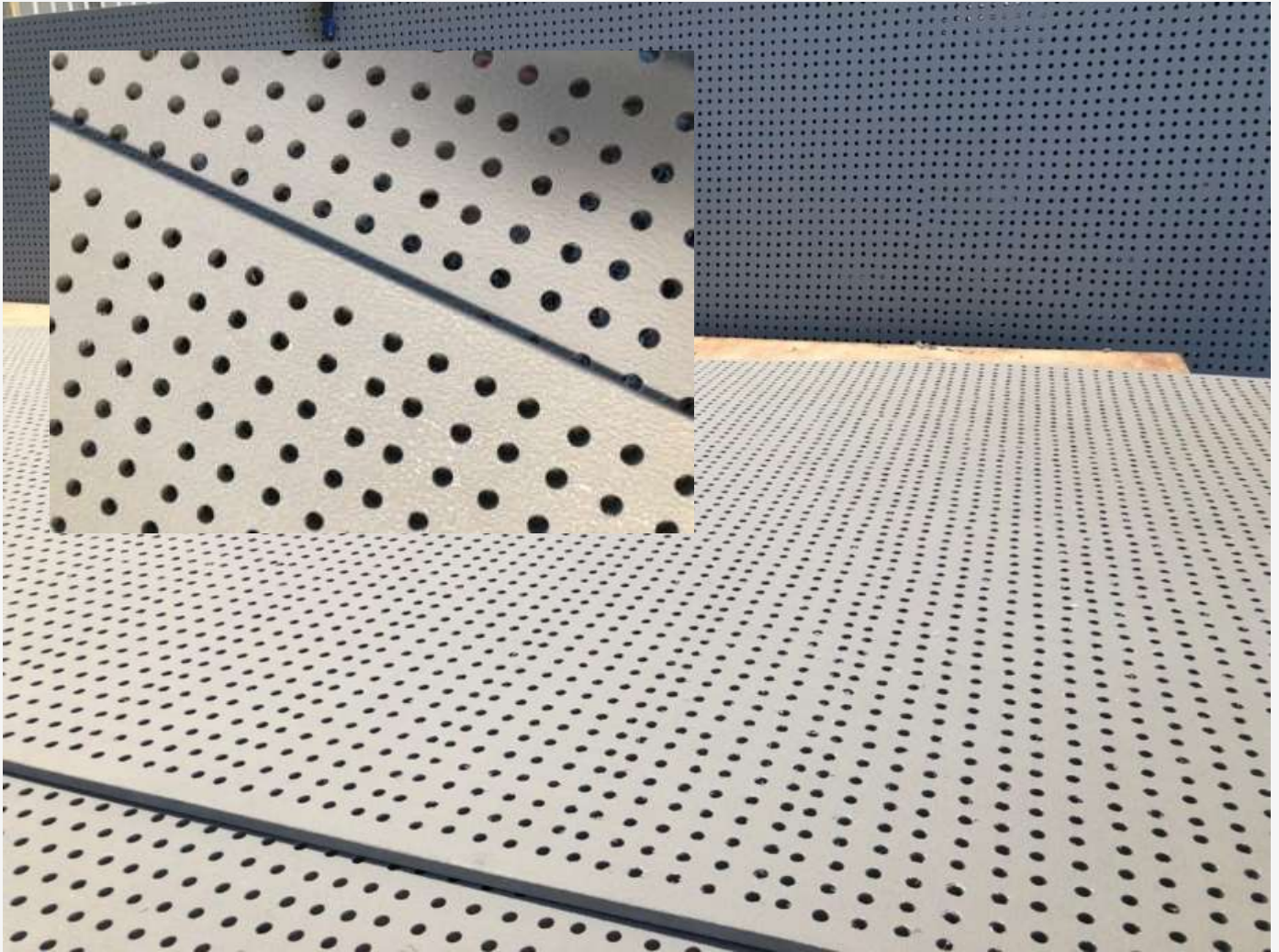
# Floating Solar Walkways



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# Fish Tanks and Filter Trays



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# Engineering applications

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**ENGINEERING**



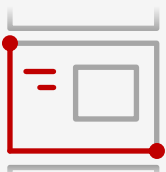
# Why Use Plaztuff?



## Plaztuff™ Hyspec™ Polymer Sheet

Good impact resistance, good melt strength, high stress crack resistance, good stiffness, food grade, resistant to a wide range of chemicals, durable, long life, UV and tough environment resistance.

Uses: Tanks (water, fuel, food beverage & chemicals), liners, hoppers, cyclones, scrubbers, containers, van and truck floors, van and truck bodies, floors, wall lining, canopies, shading, and general fabrication applications.



# Tanks and Tankers



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# Truck Water Tank, Mixing Tank



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# Industrial Process Tanks



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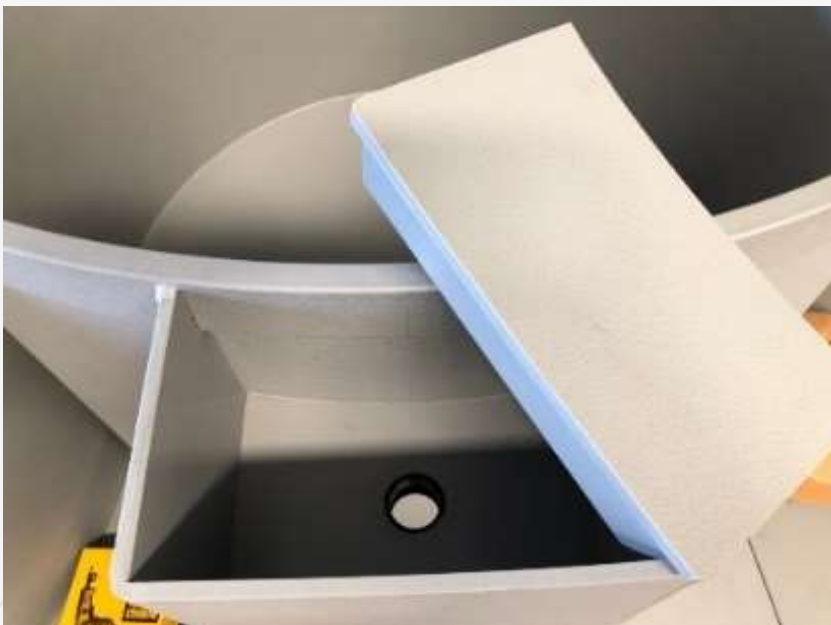


# Quarantine / Circulation Tanks



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# Hot Water, Wine, Fire Water, Water



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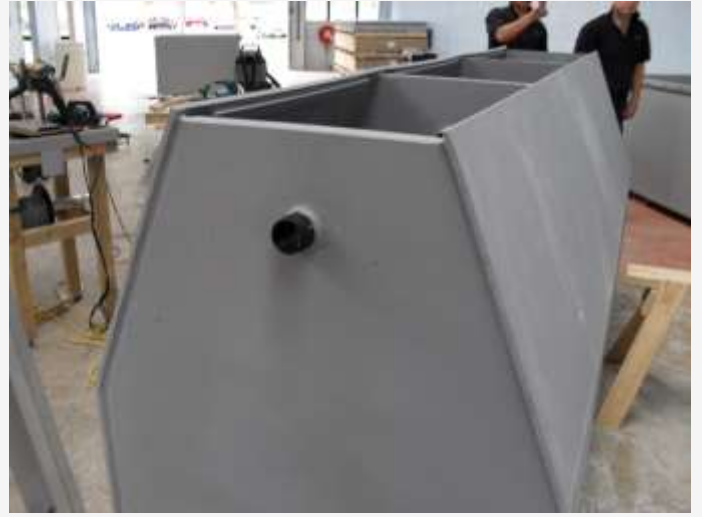
# Tanks Mixing and Chemical



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# Tanks with Baffles



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# Waste, Container, Diesel, and Water Tanks



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# Hook Bins, Skips, Food Bins



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# Fire Trucks



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# Waste Truck Bodies



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# Water/ Spray Tankers/Trailers



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# Trailers



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# Fish Sauce Ferment Tank



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# Fish Sauce Storage Tank



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# ISO Tanks



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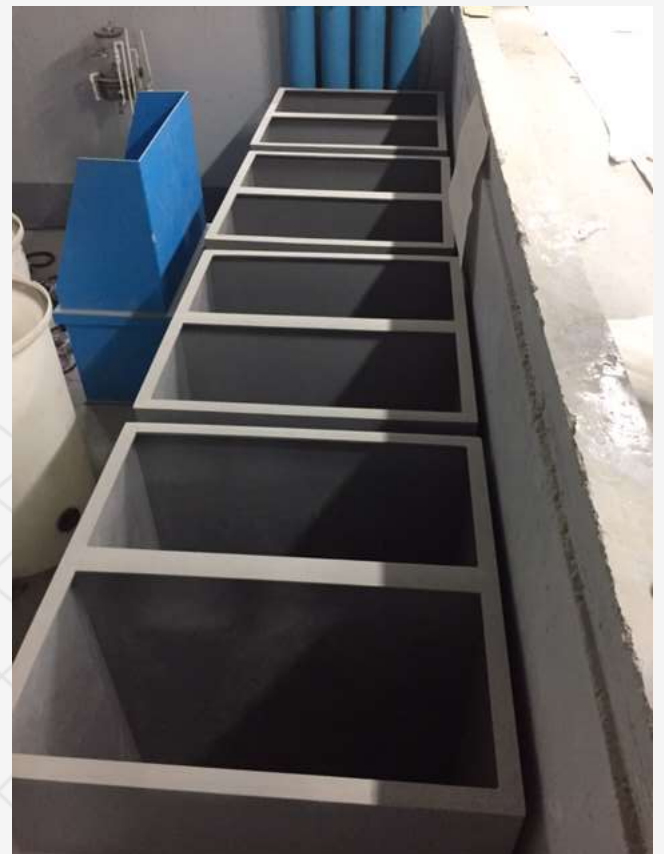
# Sump Tanks



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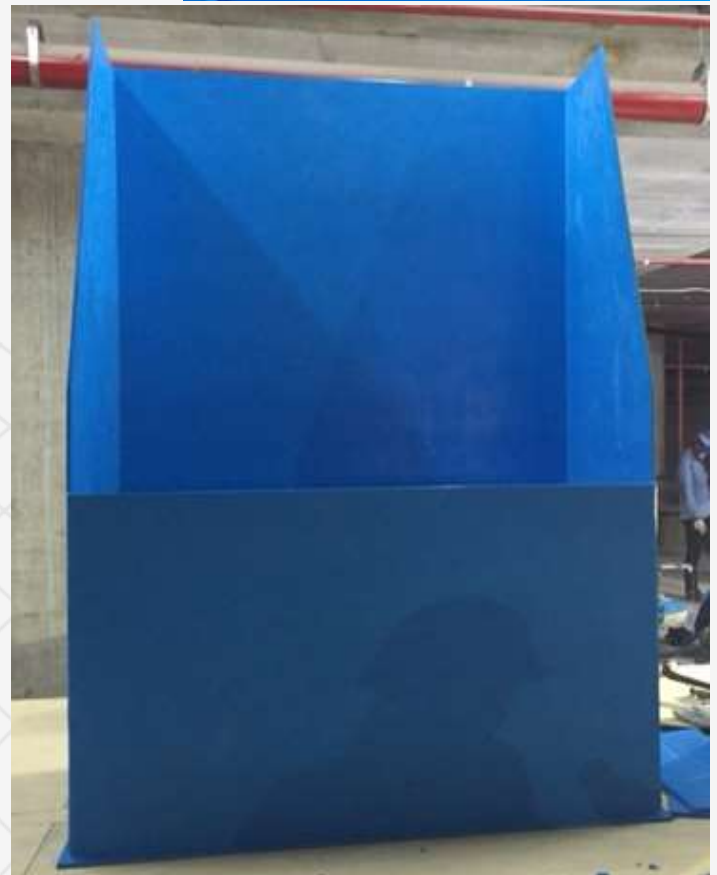
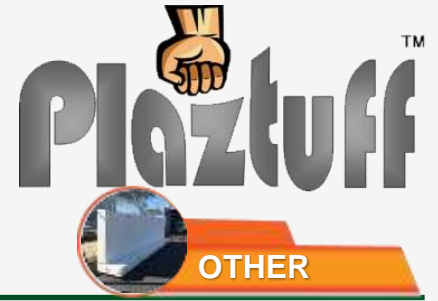
# Water Filtration Systems



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# Water Filtration Systems



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# Polymer Hoppers



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# Cyclones



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# Hoppers/Silos



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# Insulated boxes for Food products



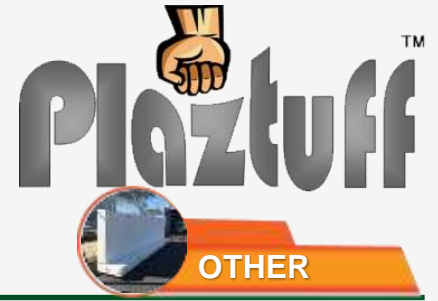
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**OTHER**

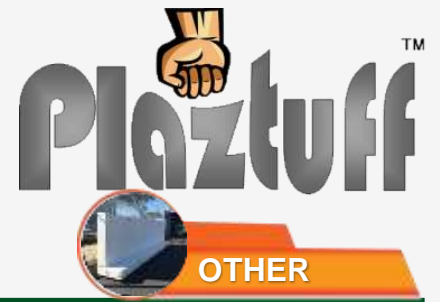


# Swimming Pools and Spa's



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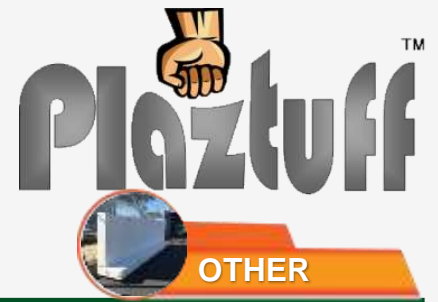
# Liners



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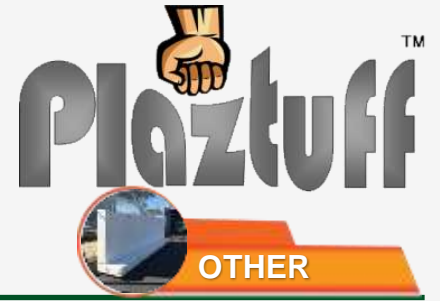
# Truck/Van Floors and Liners



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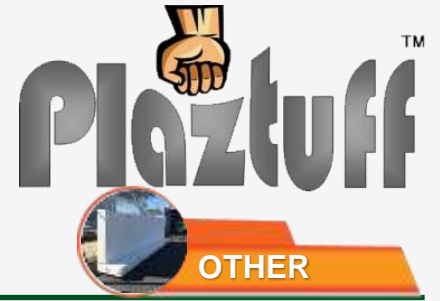


# Booths and Cabs



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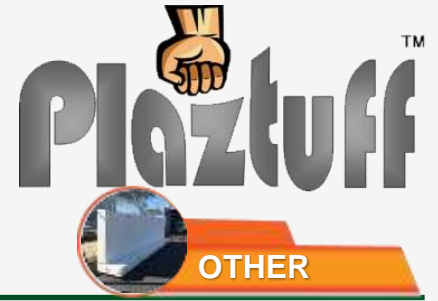
# Booths and Lockers



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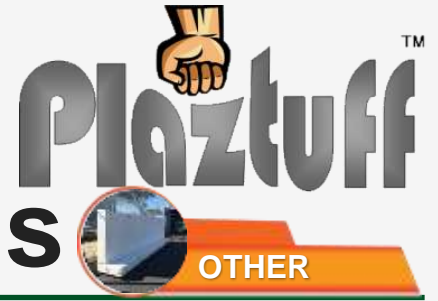
# Encapsulate/Wrap Steel – No Rust!



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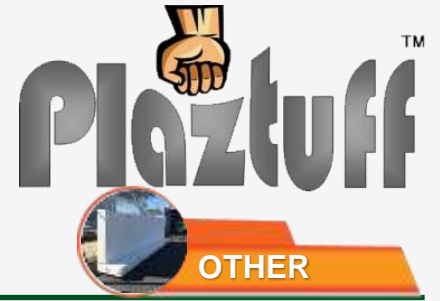


# Lining Concrete Floors, Bunds, Walls



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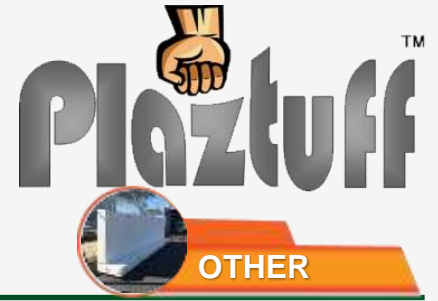
# Acid Bunds



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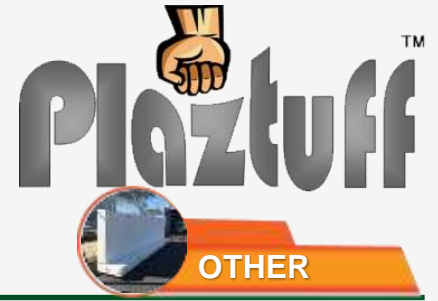
# Cladding Panels Solar Shading



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# Statues, Features, Playgrounds



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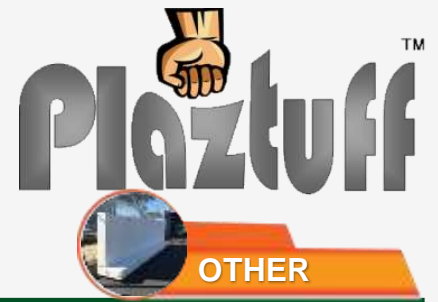
# Truck Bodies, Boxes, Chutes, Enclosures, Misc..



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# Gratings, Reels, Boxes, Covers, Gutters

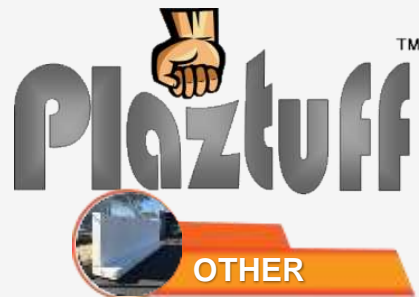


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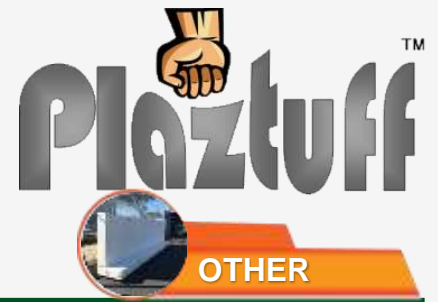
# New products!

## Corrugated Plaztuff



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# Plaztuff Samples, Logo's, Decals, Piping Connections

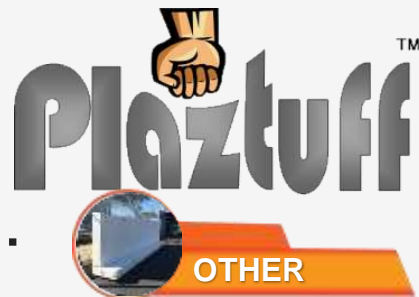


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# New projects

Shipping Toolboxes, Acid Tank Lining,  
Ladders, Drain Covers, Display Cases...



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# Welding

# Extrusion Welder



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# Automatic Butt Welding



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# Customer Training



# Customer Training



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# Transportation





# Transportation



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# Transportation



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# Transportation, Rolls, Sheets, Pallets



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**Thank You**

**Please see our website for further  
information and contact details**

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