



PG E&C PTE LTD

38D Tuas Avenue, Platinum @ Pioneer
Singapore 636859

PRODUCT BROCHURE

Construction Site Materials

Steel Plate | Polymer & Soda | Fire Hose
| EPE Polyfoam | Construction Site Materials

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SUPPORTING SINGAPORE'S BORED PILING INDUSTRY

PG E&C Pte Ltd is a Singapore-based supplier of construction materials and essential site-use products, supporting bored piling contractors with reliable supply, responsive service and timely delivery.

Professional Supply. Reliable Support.

Steel Plate Rental | Polymer & Soda | Fire Hose | EPE Polyfoam

For Singapore construction and piling site requirements

POLYMER & SODA ASH DENSE SOLUTIONS

Site-use products supported by recorded deliveries to active construction projects in Singapore.



REDISPERSIBLE POLYMER POWDER

Polymer P-01

Supplied for construction-site use, with practical 25 kg bag packing for storage, handling and scheduled delivery.

NET WEIGHT: 25 KG/BAG

Palletised supply available



SODA ASH DENSE 25 KG NET / BAG



Ready Stock

POLYMER P-01 BULK PACKING

1 PALLET = 1,000 KG

40 BAGS x 25 KG

Complete pallet shown for clear project planning and convenient construction-site handling.

RECORDED PROJECT SUPPLY

10 SUPPLY ENTRIES		7 PROJECT SITES		3 CUSTOMERS		2 PRODUCTS	
CUSTOMER	PROJECT / SITE			PRODUCT		SUPPLY DATE	
Pintary	Bulim Street LP24 Gate C			Polymer P-01		29 Jun 2026	
Pintary	Bulim Street LP24 Gate C			Soda Ash Dense		29 Jun 2026	
Pintary	Bishan Street 12 LP14			Polymer P-01		30 Jun 2026	
Pintary	Bishan Street 12 LP14			Soda Ash Dense		30 Jun 2026	
Pintary	River Valley Green LP20			Polymer P-01		3 Jul 2026	
Pintary	Kim Keat Ave LP5			Polymer P-01		3 Jul 2026	
Pintary	Bulim Street LP24 Gate C			Polymer P-01		13 Jul 2026	
Asia	Attap Valley Road LP21 Gate 2 (Micron Woodlands Extension)			Polymer P-01		17 Aug 2026	
TPW	Telok Blangah Road LP142 (HDB-BI Rich Construction)			Polymer P-01		19 Aug 2026	
TPW	Woodlands North Coast Road LP25 (Woodlands N9C5/C8)			Polymer P-01		21 Aug 2026	



STEEL PLATE

WIDTH 5ft x LENGTH 20ft

THICKNESS 25mm
WEIGHT 1,823kg

HEAVY-DUTY SITE ACCESS & GROUND PROTECTION

Built for demanding construction-site use, our heavy-duty steel plates provide a practical temporary working surface for construction operations in Singapore. They are commonly used where stable access, ground protection or temporary covering is required, subject to the project's engineering and safety requirements.

Temporary Access: Provides a stable surface over selected soft or uneven work areas.

Trench & Excavation Covering: Suitable for temporary covering where required by the site plan.

Ground Protection: Helps protect work areas during heavy-duty construction operations.

FIRE HOSE



PVC Liner
Polyester Jacket

CONSTRUCTIONS

TYPE → Single jacket

LINING → PVC

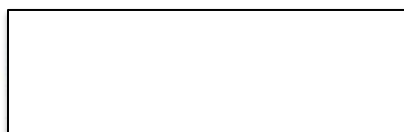
STANDARD LENGTH → 4inch x 30Meter 16Bar

JACKET → Polyester filament/Spun polyester

FEATURES → light-weight, long service life, economy

APPLICATION → Industrial Fire fighting,Cabinet fire hose,Water Trans-fer &Pumping,Agricultural /Irrigation,Wash

COLOR →



PRESSURE REQUIRED →

INNER DIAMETER		WORKING PRESSURE	BURST PRESSURE
INCH	MM	PSI/BAR	PSI/BAR
	25	190/13,232/16,300/21,400/28,ETC	570/39,696/48,900/63,1200/84,ETC
1-1/2	38	150/10,190/13,232/16,300/21,400/28,ETC	450/30,570/39,696/48,900/63,1200/84,ETC
1-3/4	45	150/10,190/13,232/16,300/21,400/28,ETC	450/30,570/39,696/48,900/63,1200/84,ETO
2	50	150M0,190/13,232/16,300/21,400/28,ETC	450/30,570/39,696/48,900/63,1200/84,ETC
2-1/2	65	150/10,190/13,232/16,300/21,400/28,ETC	450/30,570/39,696/48,900/63,1200/84,ETC
3	80	150/10,190/13,232/16,300/21,400/28,ETC	450/30,570/39,696/48,900/63,1200/84,ETC
4	100	150/10,190/13,232/16,250/7	450/30,570/39,696/48,750/51
5	125	150/10,190/13,232/16,250/17	450/30,570/39,696/48,750/51
6	150	150/10,190/13,232/16,250/17	450/30,570/39,696/48,750/51



Heavy-Duty T-Bolt Hose Clamp

MATERIALS :

Galvanized Iron

SIZE :

4inch 104-112

This is a heavy-duty t-bolt hose clamp designed for high-pressure applications and secure sealing

KEY FEATURES :-

- **Superior Clamping Force:** T-bolt clamps can be tightened to much higher torque values than standard clamps, making them ideal for high-pressure systems.
- **Uniform 360-Degree Seal:** The design features a solid, smooth inner band—often with a floating bridge—that provides even pressure distribution around the entire hose.
- **Hose Protection:** Unlike perforated clamps that can "chew" into rubber, these have rolled, smooth edges to prevent tearing or gouging soft hose materials like silicone.
- **Specific Sizing:** These clamps have a more limited adjustment range than standard clips, so they must be precisely sized to the outer diameter of the hose.

How to Use It :-

1. Position the Clamp

Slide the T-bolt clamp over the end of the hose before you push the hose onto the tender's outlet or intake barb.

2. Seat the Hose

Push the hose onto the fitting until it is fully seated. If the hose is stiff, you can use a small amount of soapy water on the barb to help it slide on more easily.

3. Align the Clamp

Slide the clamp toward the fitting. It should sit approximately 1/4" (6 mm) from the very edge of the hose. Ensure the bolt is positioned where you can easily reach it with a wrench or socket.



FIRE HOSE MENDER

MATERIALS :

Galvanized Iron

SIZE :

4inch x Long 169MM

The Job Site Essential for Water Management

Our heavy-duty hose menders are designed for the rugged demands of construction, providing a fast and permanent fix for water supply, discharge, and suction lines.

KEY FEATURES :-

- **Repairing Hoses:** It is primarily used to fix a damaged hose. You cut out the leaking or broken section and insert the mender into the two remaining ends to rejoin them.
- **Extending Length:** It can also be used to permanently connect two separate hoses of the same diameter to create a longer run.
- **Industrial Applications:** Large versions like this one are common for high-pressure or heavy-duty hoses, such as those used for water pumps, suction, or discharge.

How to Use It :-

1. **Cut the Hose:** Ensure you have clean, square cuts on both ends of the hose sections you wish to join.
2. **Insert the Mender:** Push the barbed ends into the hose openings until they bottom out against the center collar. (Tip: Soaking the hose ends in warm water can make them more pliable and easier to slip on).
3. **Secure with Clamps:** To create a leak-proof seal, you must use a hose clamp (like a worm gear clamp) over the hose where it overlaps the barbs and tighten it securely with a screwdriver.



WHEEL PLASTIC SPACER BLACK

MATERIALS :
Plastic

SIZE : **75mm**

Outer Diameter : **140mm**

Use: **Mount On Link**

Plastic wheel spacers are essential components designed to ensure the correct positioning of reinforcement bars (rebar) in concrete and other construction structures. We offer high quality plastic wheel spacers that provide durability, efficiency, and compliance with construction standards.

KEY FEATURES :-

- **Durable Material:** Manufactured from high quality plastic, ensuring long lasting performance and resistance to breakage.
- **Optimized Design:** Features a circular structure for even weight distribution, preventing rebar displacement during concrete pouring.
- **Multiple Sizes Available:** Offered in various diameters to suit different building materials and reinforcement bar specifications.
- **Easy Installation:** Snap-fit design allows quick and secure attachment to rebar, saving time and labor costs.

Primary Use Cases for Rebar Wheel Spacers

This product is widely specified across standard concrete reinforcement applications:

Horizontal Concrete Framework: Controls concrete cover and rebar placement in slabs.

Vertical Structural Members: Prevents displacement of rebar cages in walls and columns.

Civil Works: Maintains strict alignment tolerances required in bridge and highway construction



Galvanized Iron Wire

MATERIALS :
Galvanized Iron

SIZE : **Length 400mm**
Gauge : **20BWG**

Galvanized straight cut wire is made from low-carbon steel with hot-dip or electro-galvanized coating. It is ideal for rebar tying, wire mesh production, fencing, and bundling. Straight cut design ensures easy handling, cutting, and installation.

KEY FEATURES :-

- Wire Length: 400 mm straight cut wire, side labels include 400 mm length
- Gross Weight per Carton: 5KGS gross weight, palletized for secure transport
- Packaging Type: Cartons stacked on pallets for bulk shipping and warehouse storage

Core Applications

Construction & Civil Works: Ideal for high-efficiency rebar tying, concrete reinforcement, and structural bundling.

To use a rebar spacer wheel with an integrated tie wire.

Industrial & Manufacturing: Used as raw material for wire mesh production, cage manufacturing, and heavy-duty industrial tying.

EPE POLYFOAM

Size :

H16 / H20 / H25 / H32 / H40

Polyethylene foam protection for specified rebar and packaging applications.

ABOUT EPE POLYFOAM

Lightweight, flexible and impact-absorbing protection.

Key properties

Moisture resistance | Thermal insulation

Sound insulation | Anti-friction

Colour: White

AVAILABLE REBAR TYPES

H16 / H20 / H25 / H32 / H40

Refer to the following page for sizes and installation guidance.

APPLICATION PHOTOS



EPE foam cover in use



Rebar protection application

EPE POLYFOAM

Size :

H16 / H20 / H25 / H32 / H40

SIZES & INSTALLATION

High-performance polyethylene foam protection for exposed reinforcement bars.



REBAR H16
ID20mm x ID30mm
x 5mm x 1meter



REBAR H20
ID25mm x ID35mm
x 5mm x 1meter



REBAR H25
ID28mm x ID38mm
x 5mm x 1meter



REBAR H32
ID35mm x 45mm
x 5mm x 1meter



REBAR H40
ID45mm x 55mm
x 5mm x 1meter

INSTALLATION GUIDANCE

Cable ties are strongly recommended for security purposes.

Secure one EPE polyfoam cover with three (3) cable ties.

ON-SITE APPLICATION



SECURE PLACEMENT



REBAR PROTECTION IN USE



PG E&C PTE. LTD.

VERMICULITE

5mm – 8mm

Naturally occurring, expanded mineral with excellent insulation, fire resistance and water holding properties.



Color: Light to dark brown

Shape: Accordion-shaped granule

Bulk density(a): 64–160 kg/cu m
4–10 lb/cu ft

**Moisture loss
@110°C (230°F):** 4–10%

pH (in water): 6–9

Combustibility: Non-combustible

**Sintering
temperature:** 1150–1250°C
2100–2280°F

Fusion point: 1200–1320°C
2200–2400°F

**Cation exchange
capacity (b):** 50–150 me/100g

Specific heat: 0.84–1.08 kJ/kgK
0.20–0.26 kcal/kgK
0.20–0.26 Btu/lb°F

**Waterholding
capacity (a):** 200–325% by wt
20–50% by vol

Notes:

- (a) Bulk density and water holding capacity vary with particle size.
- (b) Exchangeable ions are Mg^{++} and Ca^{++} , sodium acetate saturation/ammonium acetate substitution method.

TYPICAL CHEMICAL ANALYSIS

Element	Percent by Weight
SiO ₂	38–48%
Al ₂ O ₃	10–16%
MgO	16–35%
CaO	1–5%
K ₂ O	1–6%
Fe ₂ O ₃	6–13%
TiO ₂	1–3%
H ₂ O	8–16%
Other	0.2–1.2%

Chemical Formula

$(Mg, Ca, K, Fe^{11})_3 (Si, Al, Fe^{101})_4 O_{10}(OH)_2 O_4 H_2 O$

THERMAL CONDUCTIVITY AT DIFFERENT BULK DENSITIES

Bulk densities		Thermal conductivity values	
Kg/cu m	lb/cu ft	Lambda (λ) W/mK	Btu in/sq ft h°F
56–64	3.5–4.0	0.058	0.40
80–96	5.0–6.0	0.064	0.44
160–192	10–12	0.071	0.49

MAIN APPLICATIONS



Horticulture &
Agriculture



Fire Protection
& Insulation



Construction
& Concrete



Industrial
Applications

PG E&C PTE LTD

TRUSTED BY INDUSTRY CLIENTS

Proudly supplying construction materials and essential site-use products to foundation specialists and construction companies across Singapore.



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ASIA PILING CO PTE LTD



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YEE HENG FOUNDATION PTE LTD



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RELIABLE PRODUCTS | RESPONSIVE SERVICE | TIMELY SUPPLY

YOUR RELIABLE CONSTRUCTION SUPPLY PARTNER

Company names and marks are shown for identification purposes.