

- 
- ⊕ CUSTOM BENDS
 - ⊕ CUSTOM SHAPES
 - ⊕ CUSTOM SIZES
 - ⊕ CHAIRS & ACCESSORIES

STEEL REINFORCEMENT



PLASCORP®

TAILORED SOLUTIONS+



WHY PLASCORP?

For 60+ years we've manufactured and supplied steel reinforcing, PVC pipes plus mine ventilation, ducting and composite hoses to various industries in Australia. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

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Plascorp is one of Australia's leading privately owned manufacturing and distribution companies. We have invested significantly in quality European equipment to maximise manufacturing efficiency and enable value-add products to be produced for customers, expanding our operations in Melbourne, Brisbane and Perth.

The company draws from years of experience in the construction, civil and mining infrastructure industries to produce custom or 'made to order' designs and product solutions that best meet our customer's specification requirements. Our superior service support includes working closely with our customers from planning stage through to a project's completion. We have a network of dedicated and client-focused sales teams and branches across all major cities.

PRODUCTS YOU CAN TRUST

All our products are manufactured to the relevant Australian Standards and tested under strict quality control procedures. We hold numerous standards licences.

Suppliers of the steel we use are Certified ISO14001 Environmental Management System and carry EPDs. Our PVC pipe products are BEP (Best Environmental Practice) certified.

Our steel reinforcing is used all over Australia in residential, commercial and infrastructure projects. Plascorp manufacturing is approved and certified in accordance with ISO 9001 and products are ACRS accredited.

Local manufacturing enables us to have control over our production capabilities ensuring a consistent product to meet our clients' needs. It also provides the flexibility to customise products and to ensure we can meet the most challenging deadlines for each project.



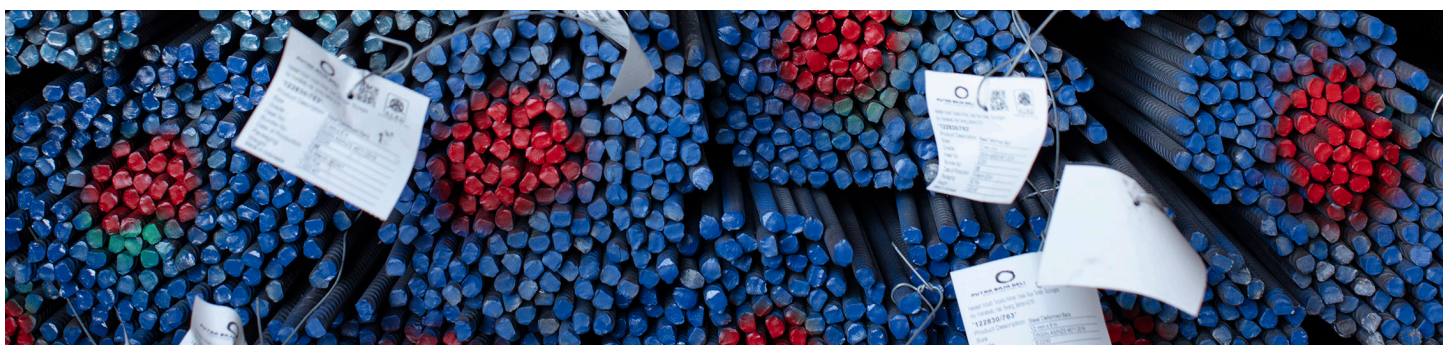
MANUFACTURE & SUPPLY



UP TO 100% RECYCLED STEEL SCRAP USED IN EAF STEELMAKING



SHORTER LEAD TIMES





AUSTRALIA'S LEADING CONCRETE MESH SUPPLIER

Plascorp imports a wide range of reinforcing bar and mesh. Unlike our competitors, we carry large stocks in all our distribution centres to ensure availability. Reinforcing bar and mesh is often used to increase the structural strength of concrete structures. By creating an inner frame reinforcement, concrete structures can provide a higher level of performance.

CUSTOM STEEL PROCESSING

We have extensive processing facilities for reinforcement bar and can provide outstanding response times, accuracy and quality. We understand that all projects are different and offer the ability to cut, bend and shape from 10 - 40mm bar using coil or straight bar.

Cracker bars, starter bars, ligs or other special orders are our forte.

Our processed steel rates include inhouse scheduling, cutting, bending, tagging and bundling.

KEY BENEFITS INCLUDE:

- Ability to cut, bend & shape 10 - 40mm bar
- Options of coil, straight and processed bar
- Extensive range of mesh
- Prompt service & supply
- Storage to suit construction timeframes

PRODUCT RANGE

- Reinforcing mesh & trench mesh
- Round reinforcing bar
- Deformed reinforcing bar





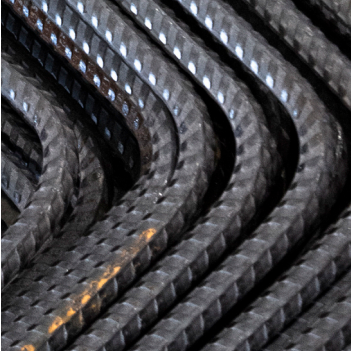
PRODUCT STANDARDS

Product	Standards	NOM Size (mm)
Deformed Reinforcing Bar	ACRS Product Scheme Certification	10 - 40
Ribbed Square Reinforcing Mesh	ACRS Product Scheme Certification	SL62 - SL102
Reinforcing Trench Mesh	ACRS Product Scheme Certification	L8TM200 - L12TM400
Ribbed Rectangular Reinforcing Mesh	ACRS Product Scheme Certification	RL718 - RL1218
Reinforcement Bar Chairs		Available on application
Tiewire		1.4/1.57mm
Builders Film	AS/NZ2870	50 x 2m & 50 x 4m

All Plascorp reinforcing coils, bar, mesh and trench mesh conforms to Australian standard AS/NZS 4671 and has ACRS accreditation, our processing facilities are certified to ISO:9001 so you are assured of a quality product each and every time, we also hold the relevant Main Roads certification.



DEFORMED REINFORCING BAR



Plascorp stock a full range of reinforcement bar from 10mm up to and including 40mm. 10mm is sourced from coil, 12 -24mm is stocked in both 6m and 12m lengths whilst 28 - 40mm is held in 12m lengths. All bar is made to AS/NZS 4671 : 2019 and is ACRS accredited.

We can also offer one off bespoke lengths which can be sourced and supplied subject negotiation. For further information please call us on 1300 30 13 13.

	Std Unit	Mass Per Metre kg/m	Metres per Tonne
N10	Tonne	0.617	1621
N12	Tonne	0.888	1126
N16	Tonne	1.58	633
N20	Tonne	2.47	405
N24	Tonne	3.55	282
N28	Tonne	4.83	207
N32	Tonne	6.31	158
N36	Tonne	7.99	125
N40	Tonne	9.86	101

Note, weight per metre shown is the theoretical weight as per AS/NZS 4671. Rolling margin will be applied in accordance with tolerance limits as per AS/NZS 4671 clause 7.3.

RIBBED SQUARE REINFORCING MESH



Our square mesh can be used for a variety of applications including precast tilt panels, concrete pathways, house slabs, and insitu pits and walls.

- AS/NZS4671
- 6.0 x 2.4 metres

	STD UNIT	LONGITUDINAL WIRES	CROSS WIRES	MASS/KG
SL62	Sheet	10 x 6.00 @ 200 + 4 x 4.24 @ 100	30 x 6.00 @ 200	33
SL72	Sheet	10 x 6.75 @ 200 + 4 x 4.77 @ 100	30 x 6.75 @ 200	41
SL81	Sheet	25 x 7.60 @ 100	60 x 7.60 @ 200	105
SL82	Sheet	10 x 7.60 @ 200 + 4 x 5.37 @ 100	30 x 7.60 @ 200	52
SL92	Sheet	10 x 8.60 @ 200 + 4 x 6.00 @ 100	30 x 8.60 @ 200	66
SL102	Sheet	10 x 9.50 @ 200 + 4 x 6.75 @ 100	30 x 9.50 @ 200	80

REINFORCING TRENCH MESH



Our trench mesh comes in a variety of thicknesses and with at 6000mm long it can be used for house slab footings, warehouse and block wall footings.

- AS/NZS4671
- 6.0 metres

L8TM

	STD UNIT	LONGITUDINAL WIRES	CROSS WIRES	MASS/KG
L8TM200	6 Metre	3 x 7.60 @ 100	4.00 @ 300	6.8
L8TM300	6 Metre	4 x 7.60 @ 100	4.00 @ 300	9.2
L8TM400	6 Metre	5 x 7.60 @ 100	4.00 @ 300	11.6

L11TM

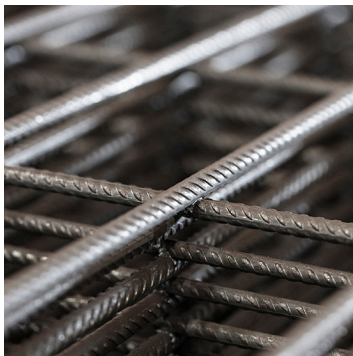
L11TM200	6 Metre	3 x 10.70 @ 100	4.77 @ 300	13.0
L11TM300	6 Metre	4 x 10.70 @ 100	4.77 @ 300	17.7
L11TM400	6 Metre	5 x 10.70 @ 100	4.77 @ 300	22.3

L12TM

L12TM200	6 Metre	3 x 11.90 @ 100	4.77 @ 300	16.3
L12TM300	6 Metre	4 x 11.90 @ 100	4.77 @ 300	21.8
L12TM400	6 Metre	5 x 11.90 @ 100	4.77 @ 300	27.3

NB Product availability may vary by location, please contact your local contact for clarity.

RIBBED RECTANGULAR REINFORCING MESH



Our rectangular mesh can be used for a variety of applications including shot crete walls, precast tilt panels and structural concrete elements

- AS/NZS4671
- 6.0 x 2.4 metres

	STD UNIT	LONGITUDINAL WIRES	CROSS WIRES	MASS / KG
RL718	6 x 2.4m Sheet	25 x 6.75 @ 100	30 x 7.60 @ 200	67
RL818	6 x 2.4m Sheet	25 x 7.60 @ 100	30 x 7.60 @ 200	79
RL918	6 x 2.4m Sheet	25 x 8.60 @ 100	30 x 7.60 @ 200	93
RL1018	6 x 2.4m Sheet	25 x 9.50 @ 100	30 x 7.60 @ 200	109
RL1118	6 x 2.4m Sheet	25 x 10.70 @ 100	30 x 7.60 @ 200	130
RL1218	6 x 2.4m Sheet	25 x 11.90 @ 100	30 x 7.60 @ 200	157

NB Product availability may vary by location, please contact your local contact for clarity.

REINFORCEMENT BAR CHAIRS



These are just a few examples of the many and varied accessories that we carry in stock for your reinforcing projects, please enquire with our friendly sales team for a full price list to cover your needs.

STANDARD BAR CHAIRS

	STD UNIT	COVER A	COVER B	MASS PER BAG / KG
BC 25/40	Bag x 100	25	40	2.0
BC 50/65	Bag x 100	50	65	4.0
BC 75/90	Bag x 100	75	90	4.8
BC 85/100	Bag x 100	85	100	5.1

PANEL BAR CHAIRS

	STD UNIT	COVER A	COVER B	MASS PER BAG / KG
BCP 50/60	Bag x 100	50	60	2.1
BCP 65/75	Bag x 100	65	75	2.6

DOWELS

R12 GAL	WIDTH (mm)	R16 GAL	WIDTH (mm)	R20 GAL	WIDTH (mm)
R12 GAL	300	R16 GAL	450	R20 GAL	450
R12 GAL	450	R16 GAL	600	R20 GAL	600
R12 GAL	600				

TIEWIRE



Tiewire is ideal for steel fixers and form workers. It is a black, soft tensile wire used for tying reinforcing mesh and bar for the building industry. Tie wire is easily cut and easily manipulated. It suits most common belt reels.

Tiewire is available in 1.40mm (held in Perth) and 1.57mm (held in Brisbane) widths in coils of 1.42kg.

BUILDERS FILM

BLACK AS/NZ2870

Other sizes and colours available on request

50m x 4m Wide Rolls 200•m (micron)

50m x 2m Wide Rolls 200•m (micron)



RESPONSIBLE SOURCING

Plascorp endeavours to responsibly source steel reinforcing primarily from companies that use Electric Arc Furnace (EAF) steelmaking where up to 100% scrap is used. Scrap plays a key role in reducing industry emissions and resource consumption.

Approximately 71% of steel is produced by the blast furnace process using coal as a raw material for process and source of energy. Coal is essential in the steel making process so carbon dioxide (CO₂) emissions cannot be avoided - but they can be reduced. The steel industry contributes around a quarter of global industrial emissions of CO₂ and 6-9% of total global emissions from fossil fuel.

Every tonne of scrap used for steel production avoids the emission of 1.5 tonnes of carbon dioxide, and the consumption of 1.4 tonnes of iron ore, 740 kg of coal and 120 kg of limestone.¹

¹. worldsteel, Life Cycle Inventory (LCI) data

RESPONSIBLY SOURCED STEEL

Preferred suppliers of Plascorp steel:

- Have Environmental Product Declarations (EPD's)
- Are Certified ISO14001 Environmental Management System
- Are ACRS accredited
- Are members of the World Steel Association's (WSA) Climate Action Initiatives
- Are using energy saving technologies in manufacturing



1.5 TONNES OF CARBON DIOXIDE EMISSIONS AVOIDED FOR EVERY TONNE OF SCRAP USED



ENVIRONMENTAL PRODUCT DECLARATIONS ENSURE SUPPLIERS ARE RESPONSIBLE





TO PRODUCE 1,000 KG OF CRUDE STEEL:

ELECTRIC ARC FURNACE ▼

BLAST FURNACE

+ 710 kg Recycled Steel Scrap

125 kg Recycled Steel Scrap

+ 586 kg Iron Ore

1,370 kg Iron Ore

+ 150 kg Coal

780 kg Coal

+ 88 kg Limestone

270 kg Limestone

HOT ROLLED STEEL BARS

PRODUCT SPECIFICATIONS

AS/NZS4671:2001, MS146:2000, BS4449:1988

PRODUCT RANGE

High tensile deformed bar 10,12,16,20,24,32mm diameter

STANDARD LENGTH

6 metres

Other lengths available on request

MAXIMUM CARBON EQUIVALENT VALUE

CALCULATED USING THE FOLLOWING FORMULA

$$C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

Where

C = % of Carbon content

V = % of Vanadium content

Mn = % of Manganese content

Ni = % of Nickel content

Cr = % of Chromium content

Cu = % of Copper content

Mo = % of Molybdenum content

MECHANICAL PROPERTIES

GRADE	BAR SIZE (mm)	YEILD STRENGTH N/mm ²	TENSILE STRENGTH N/mm ²	MINIMUM ELONGATION %	BOND TEST 180 DEGREE	REDEND TEST 45 DEGREE
500	All sizes	500	Min. 5% greater than yeild strength	12	No defect - former 3D of bar	No defect - former 5D of bar

CHEMICAL COMPOSITIONS

ELEMENT	PERFORMED BARS GRADE 500% MAX
Carbon	0.3
Sulphur	0.05
Phosphorous	0.05
Maximum Carbon Equivalent Value, %	0.51

FATIGUE TESTING

BAR SIZE mm	STRESS RANGE N/mm ²	CYCLES OF STRESS
Up to and including 16	200	Endure 5 x 10
Over 16 and up to and including 20	185	
Over 20 and up to and including 24	170	
Over 24 and up to and including 32	160	
Over 32 and up to and including 40	150	

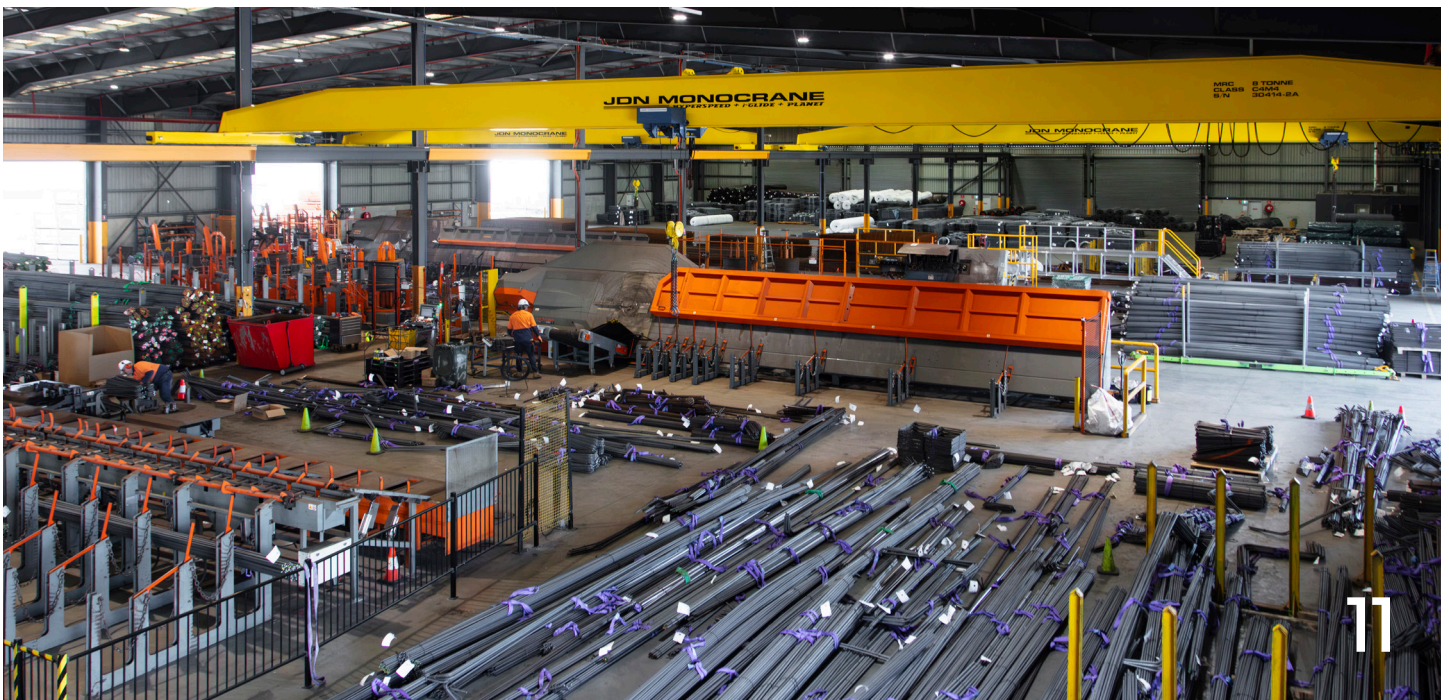
NOMINAL CROSS SECTIONAL AREA AND MASS

NOMINAL SIZES mm	CROSS SECTION AREA mm ²	MASS PER METRE RUN /KG	NOMINAL WEIGHT PER BUNDLE	TOLERANCE ON MASS PER METRE RUN (%) M.S.
10	78.5	0.616	1.020	+ 6.5 to -6.5
12	113.1	0.888	1.023	+ 4.5 to -4.5
16	201.3	1.579	1.023	+ 4.5 to -4.5
20	314.2	2.466	1.006	+ 4.5 to -4.5
24	490.9	3.854	1.063	+ 4.5 to -4.5
32	804.2	6.313	1.061	+ 4.5 to -4.5

- + PVC PIPES
- + STEEL REO
- + COMPOSITE HOSES
- + VENTILATION
- + DUCTING

For 60+ years we've manufactured and supplied PVC pipes plus composite hoses, steel reo, ventilation and ducting to various industries in Australia. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

- Range of sizes and custom colours and lengths available
- Fabricating steel to tight tolerances
- Custom slotting and threading
- Ability to fully customise to meet needs





For 60+ years we've manufactured and supplied PVC pipes plus composite hoses, ventilation and ducting to various industries. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

We started manufacturing PVC Pipes and flexible ducting in the late 1950's. Our current head office and manufacturing centre in Melbourne, commenced operations in 1961 and has since grown to over three hectares. It accommodates our ever-evolving manufacturing and product tailoring capabilities.

In addition to our Australian customer base, we now supply a range of products in New Zealand, South East Asia, South Africa and the Middle East.

Our parent company, Geofabrics has branches throughout Australia, New Zealand, Papua New Guinea and the Pacific so can deliver product where you need it, when you need it, while providing local expertise to support your project.



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