



SPECIALTY CHAINS MANUFACTURED BY PWB

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Selecting the right **PWB Anchor Chain**

➤ Sling chain

- Used for industrial lifting.
- Complies with Australian Standards.
- PWB Anchor manufacturers and/or supplies:
 - Herc Alloy 800™ - a premium grade high-tensile alloy lifting product
AS 2321 "Short-Link chain for lifting purposes (non calibrated)".
 - PWB® Gr10 - *The next generation of high grade premium lifting product*
 - Grade P - from higher tensile steel (hardened and tempered), with twice the lifting capacity of Grade L
AS 2321 "Short-Link chain for lifting purposes (non calibrated)".
 - Grade L - the highest quality lower tensile steel chain used for lifting
AS 2321 "Short-Link chain for lifting purposes (non calibrated)".

➤ Transport chain

- Made for use as a load restraint in the transport industry.
- Conforms to Australian Standard AS4344 "Cargo Restraint Systems - Transport Chain and Components".
- Chains are clearly marked with their lashing capacities and can be supplied in bulk quantities or in the form of load binding kits, with a range of suitable grab and claw hooks.
- PWB Anchor manufactures one type:
 - HiLITE™ - finished with zinc electroplating.

➤ Calibrated chain

- Is fitted to devices such as hoists and chain blocks.
- Also includes calibrated hand chain used to operate manual chain blocks, manual geared trolleys, roller doors etc.

➤ General purpose chain

- More commonly referred to as Proof Coil Chain.
- It is made in a variety of link sizes for a wide range of industrial and agricultural non-lifting purposes eg, fences, barriers, roof supports, etc.
- Proof Coil Chain comes in two link formations; regular and long.


Selecting the right **PWB Anchor Chain**

► Other chain

Other chain types include:

- Carburised chain - for special applications requiring high wear resistance.
- Flail Chain - for removing bark from timber.
- Trailer Safety Chain made to AS 4177.4
“Caravan and Light Trailer Towing Components: Safety Chains up to 3500kg capacity”.
- Load chain for manual lifting devices.

► Material/Grade

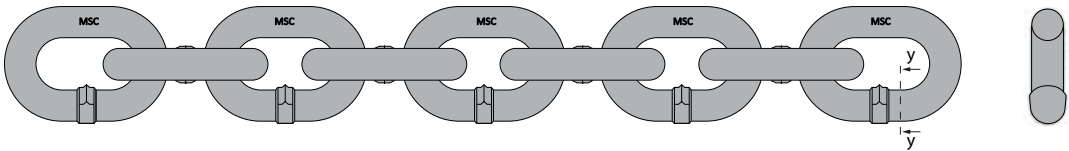


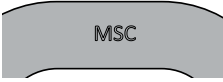
	PROOF COIL Mild Steel	No current standard
	MINING SUSPENSION Mild Steel	No current standard
28	TRAILER SAFETY Up to 3500kg capacity	AS 4177.4
31.5	GRADE L	AS 2321
50	GRADE P	AS 2321
70	HiLITE	AS/NZS 4344
80	HERC-ALLOY 800™	AS 2321
100	GRADE V	AS 2321

PWB Anchor Chain identification

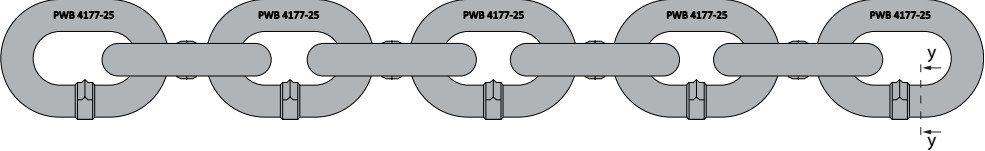
► Mining Suspension Chain - Chain identification (6.00mm - 13.00mm)

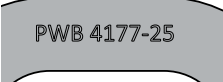
Use of the following charts is recommended to ensure that you only receive genuine PWB Anchor Chains.



Identification Marking	Chain Size (mm)	Markings	Stamp	Markings Interval	Letter Height (mm)	Weld Type
 MSC (Brand Mark)	6.0	MSC	Stamp	Every Link	1.6	Swell Reduced
	8.0	MSC	Stamp	Every Link	2.0	Flash Cut or Swell Reduced
	10.0	MSC	Stamp	Every Link	2.4	Flash Cut or Swell Reduced
	13.0	MSC	Stamp	Every Link	3.3	Flash Cut

► Trailer Safety Chain - Chain identification (8.00mm - 13.00mm)

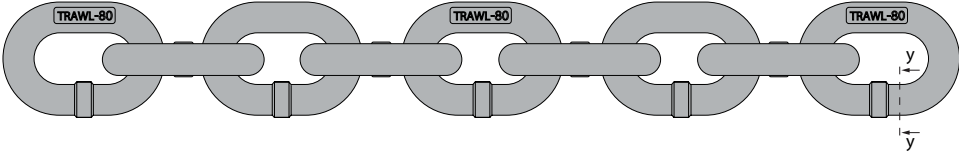



Identification Marking	Chain Size (mm)	Markings	Stamp	Markings Interval	Letter Height (mm)	Weld Type
 PWB 4177-25	8.0	PWB 4177-16	Stamp	Every Link	2.0	Swell Reduced
	10.0	PWB 4177-25	Stamp	Every Link	2.4	Swell Reduced
	13.0	PWB 4177-35	Stamp	Every Link	3.3	Swell Reduced

PWB Anchor Chain identification

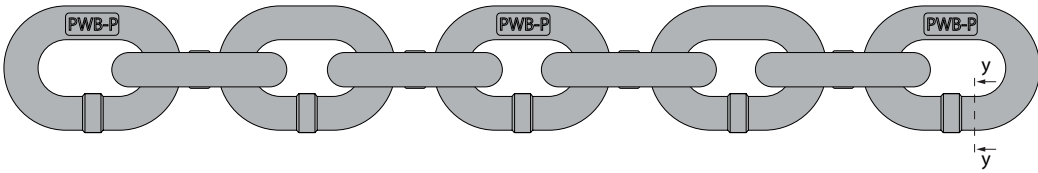
▶ Trawling Chain - Chain identification (10.00mm - 19.00mm)


Use of the following charts is recommended to ensure that you only receive genuine PWB Anchor Chains.



Identification Marking	Chain Size (mm)	Markings	Embossed	Markings Interval	Letter Height (mm)	Weld Type
	10.0	TRAWL-80	Embossed	6	2.4	Modified (trim)
	13.0	TRAWL-80	Embossed	4	3.3	Modified (trim)
	16.0	TRAWL-80	Embossed	4	4.0	Modified (trim)
TRAWL (Brand Mark) - Grade	19.0	TRAWL-80	Embossed	4	4.0	Modified (trim)

▶ Grade P Chain - Chain identification (10.00mm - 16.00mm)



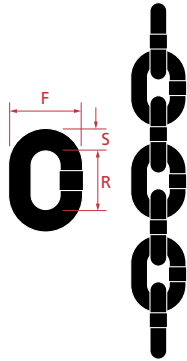
Chain Size (mm)	Markings	Stamp/ Embossed	Markings Interval	Letter Height (mm)	Weld Collar Type	Identification Marking
10.0	PWB-P	Stamp/Embossed	8	2.4	Smooth (trim)	
13.0	PWB-P	Embossed	6	3.3	Smooth (trim)	
16.0	PWB-P	Embossed	4	4.0	Modified (trim)	
						PWB (Brand Mark) - Grade

► PWB® Mining Suspension Chain

Mining Suspension Chain is manufactured in Australia from low grade carbon steel.

Proof load tested to twice the maximum working load. NOT suitable for industrial lifting purposes.

Applications: Suitable for the suspension of pipes or ducting in underground mines

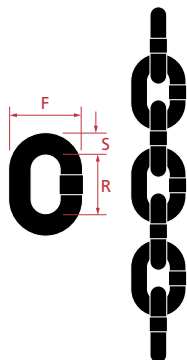


Chain Size (mm)	MWL (tonnes)	S (mm)	R (mm)	F (mm)	Galvanised Part No.	Metres/ 100kg	Link Marking
Short Link							
8	0.64	8.0	23.8	27.0	42213	67.8	MSC
10	1.0	10.0	29.8	34.3	42214	43.1	MSC
13	1.7	12.7	38.0	43.0	42215	27.7	MSC
Regular Link							
6	0.32	6.0	28.0	24.0	42085	135.7	MSC
8	0.53	7.6	35.8	29.2	42086	87.7	MSC
10	0.86	9.5	43.4	35.5	42087	57.8	MSC
Long Link							
10	0.75	9.5	53.1	39.0	42088	59.7	MSC

► PWB® Calibrated Hand Chain

Calibrated hand chain is manufactured so as to run freely in calibrated roller door hand wheels.

Applications: Suitable for roller doors



Chain Size (mm)	S (mm)	R (mm)	F (mm)	Part No.	Metres / 100kg	Marking
5mm	4.75	29.7	21.9	40058	41.5	NA

► PWB® Trailer Safety Chain

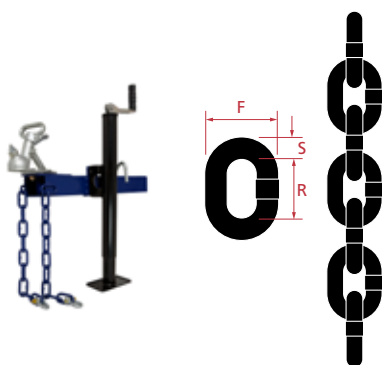
Manufactured in Australia, for use with trailers of up to 3500kg aggregate trailer mass.

Not suitable for lifting purposes.

“A chain attached between the drawbar and the towbar for the purpose of retaining connection between the towing vehicle and the trailer in the event of coupling failure” Standards Australia AS4177.4.

Applications: Trailer Safety Chain is the short length of chain fitted between the drawbar of the trailer and the towing point of the vehicle. It is designed to secure the trailer should the tow ball become disengaged.

Australian Standard: AS 4177.4

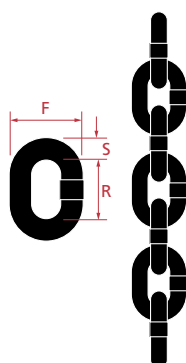


Chain Size (mm)	Aggregate Trailer Mass Max. (Kg)	S (mm)	R (mm)	F (mm)	Part No. (Self-colour)	Metres / 100kg	Part No. (Galvanised)	Metres / 100kg	Marking
8	1600	7.6	43.5	31.0	40194	93.4	41768	91.1	PWB 4177-16
10	2500	9.5	53.1	39.0	40196	61.2	40197	59.7	PWB 4177-25
13	3500	12.0	51.7	44.5	41144	35.5	40199	34.6	PWB 4177-35

► PWB® Long High-Tensile Calibrated Chain

Manufactured in Australia.

Applications: Agricultural machinery, feed out wagons

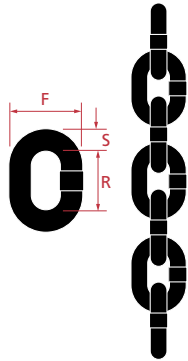


Chain Size (mm)	S (mm)	R (mm)	F (mm)	Part No.	Metres / 100kg	Marking
10mm	9.70	50.57	36.0	40243	57.9	None

➤ PWB® Regular Calibrated Gold Chain

Manufactured in Australia.

Applications: Specifically for use as emergency hand chain for roller door motors



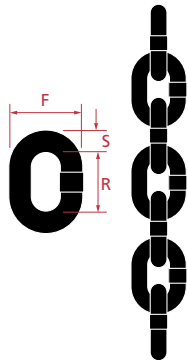
Chain Size (mm)	S (mm)	R (mm)	F (mm)	Part No.	Metres / 100kg	Marking
6mm	6.3	28.00	23.00	42436	128	PWB

➤ PWB® Trawling Chain

Trawling Chain is manufactured in Australia.

A specialised heat treatment procedure ensures both high strength and maximum hardness.

Applications: Suitable for all methods of commercial fishing

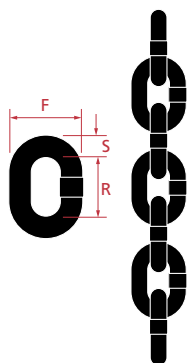


Chain Size (mm)	S (mm)	F (mm)	R (mm)	Part No.	Link	Marking
10	9.70	39.5	35.95	42016	MID	TRAWL-80
13	12.7	45.8	50.8	42509	MID	TRAWL-80
13	12.7	49.00	80.5	42017	LONG	TRAWL-80
16	16.0	57.30	59.6	42018	MID	TRAWL-80
19	19.0	66.50	76.0	42019	MID	TRAWL-80

➤ PWB® Grade P Chain

Grade P chain is manufactured from higher tensile steel (hardened and tempered) and provides twice the working load limit (WLL) of Grade L. This chain can be substituted where larger Grade L Chain would usually be required.

Applications: Anchor chain, mooring



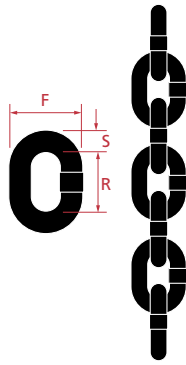
Chain Size (mm)	MWL (tonnes)	S (mm)	R (mm)	F (mm)	Links / Metre	Part No.	Metres/100kg	Link Marking
10	2.00	10.00	29.80	34.3	33.60	42037	43.9	PWB-P
13	3.38	12.50	38.00	42.5	26.30	42038	28.9	PWB-P
16	5.12	16.00	47.80	54.9	20.90	42039	17.5	PWB-P

► PWB® Flail Chain

Flail chain was developed with the support and input from various users within the timber industry. Used extensively throughout Australasia, PWB Anchor Flail Chain is manufactured in Australia and processed to meet the performance requirements of its application.

Available in bulk or cut lengths suited to your requirement.

Applications: Flail chain is used in the forestry industry for the de-barking of timber prior to chipping.



Chain Size (mm)	S (mm)	R (mm)	F (mm)	Part No.	Metres/100kg	Link Marking
16	16.00	47.80	57.8	68806	17.55	PWB-F

Commonly Asked Questions

➤ Trailer safety chain (TSC)

What is different about Trailer Safety Chain?

Trailer Safety Chain, unlike Proof Coil Chain must go through extra processes and testing to ensure it complies with the requirements of Australian Standard 4177.4 - 'Caravan and light trailer towing components Part 4: Safety chains up to 3500kg capacity'.

What are the ramifications of not using Trailer Safety Chain?

In the event of an accident, if any components do not comply with Australian Design rule 62/01 – Mechanical connections between vehicles, liability lawsuits are possible.

Why does Trailer Safety Chain come in 8, 10 and 13mm sizes?

Trailers above 3.5 tonnes Aggregate Trailer Mass are subject to comply with other regulations and may incorporate chain from Australian Standard, AS 2321 for 'Short Link Chain for Lifting Purposes.' Which encompasses a range of Grade 80 (Herc-Alloy) chain.

There are minimal practical applications for the 6mm size. It is also difficult to stamp, which is a requirement of Australian Standard 4177.4.

The most common 'box-trailers' up to 3.5 tonnes, utilise the 8mm, 10mm & 13mm Trailer Safety Chain in accordance with the appropriate Australian Design Rules.

What are the different sizes of Trailer Safety Chain used for?

Trailer Safety Chain is designed in sizes according to the capacities required on the Aggregate Trailer Mass (ATM). 8mm is for trailers up to 1.6 tonnes ATM (Stamped 'PWB 4177-16'). 10mm is for trailers up to 2.5 tonnes ATM (Stamped 'PWB 4177-25'). 13mm is for trailers up to 3.5 tonnes ATM (stamped 'PWB 4177-35').

What is the difference between Self-Colour TSC and Galvanised TSC?

Self-colour (natural steel finish) chain can be welded directly on to the drawbar and the trailer may then be painted or galvanised.

Hot-dip Galvanising is a process designed to prevent oxidation (rust) and deterioration of the product. Galvanised TSC cannot be welded easily.

Can I lift with Trailer Safety Chain?

Trailer Safety Chain is not suitable for industrial lifting purposes.

➤ Hand chain

Do you have hand chains suitable for roller doors?

PWB Anchor manufactures a 5mm long link calibrated hand chain which is electro zinc plated.

Can you buy individual links of chain?

Chain is manufactured in a continuous length on automated chain making machines which do not allow individual links to be manufactured. If individual links are required, you must purchase double the amount of links needed and cut every second link.

➤ Stainless steel chain

Does PWB Anchor supply stainless steel chain?

Due to the complex manufacturing process and availability of materials, PWB Anchor has decided not to pursue this product line.

➤ Chain identification

What are the markings on chains?

All chain manufactured by PWB Anchor carries a PWB mark and/or a reference to Grade or Standard. These markings can be found throughout this catalogue.

How can I tell the difference in the range of PWB chains?

PWB Anchor manufactures a range of chain in various grades and sizes. Chain manufactured by PWB Anchor is marked or stamped with PWB and/or its Grade at regular link intervals. Please refer to our chain identification charts at the beginning of this catalogue.

➤ General

Can PWB chain be supplied in a longer than single drum length?

Yes, the chain can be joined and supplied in longer lengths as required.

Which chains are manufactured by PWB Anchor?

At our Bundoora site we use Australian steel to manufacture Trailer Safety Chain, Trawling Chain, Proof Coil Chain, Grade L & P Chain, and Herc-Alloy 800™.