



## MILD STEEL CHAINS MANUFACTURED BY KITO PWB®

CHAIN IDENTIFICATION

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CARE AND USE OF GRADE L CHAIN

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KITO PWB® GRADE L CHAIN - GALVANIZED

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KITO PWB® GRADE L FATHOM CHAIN

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KITO PWB® REGULAR PROOF COIL CHAIN

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KITO PWB® LONG PROOF COIL CHAIN

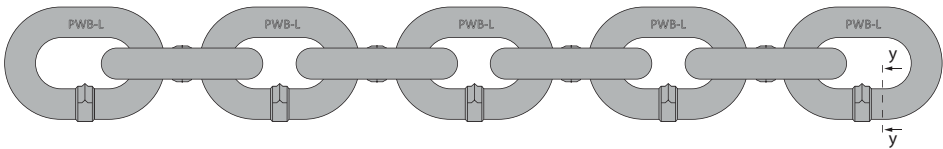
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Mild Steel Chains

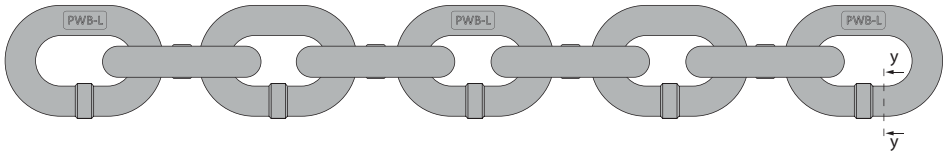
KITO PWB® Chain Identification

➤ Grade L Chain - Chain Identification (6.00mm - 22.00mm)



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



Marking A: Grade-L Chain - identification mark showing “stamped” PWB (Brand Mark) - L (Grade)



Marking B: Grade-L Chain - identification mark showing “Embossed” PWB (Brand Mark) - L (Grade)

| Chain Size (mm) | Markings | Stamp/ Emboss | Markings Interval | Letter Height (mm) | Weld Type       | Identification Marking  |
|-----------------|----------|---------------|-------------------|--------------------|-----------------|---|
| 6.0             | PWB-L    | Stamp         | Every Link        | 1.6                | Flash Cut       | <div><p>Marking A: Brand Mark - Grade</p><p>Marking B: Brand Mark - Grade</p></div> |
| 8.0             | PWB-L    | Stamp         | Every Link        | 2.0                | Flash Cut       |   |
| 10.0            | PWB-L    | Stamp         | Every Link        | 2.4                | Flash Cut       |   |
| 13.0            | PWB-L    | Emboss        | 6                 | 3.3                | Smooth          |   |
| 16.0            | PWB-L    | Emboss        | 4                 | 4.0                | Modified (trim) |   |
| 20.0            | PWB-L    | Emboss        | 4                 | 4.0                | Modified (trim) |   |
| 22.0            | PWB-L    | Emboss        | 4                 | 4.0                | Modified (trim) |   |

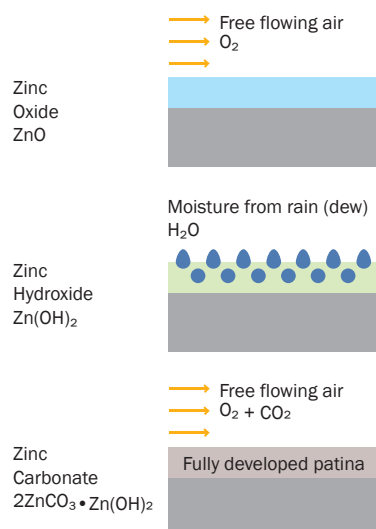
# USE AND CARE OF KITO PWB

## MOORING, ANCHORING & MARINE CHAIN



### Care of New Galvanised Chain

Because the pure zinc outer layer of new galvanising is quite soft, Kito PWB recommends washing new chain with fresh water and allowing it to dry thoroughly in a well-ventilated place. It is recommended to repeat this cycle at least two more times. This allows the development of a hard Zinc Carbonate surface called a patina which makes the chain surface much harder and the chain will last much longer. Then after every use in sea water we recommended you wash the chain with fresh water and allow it to dry thoroughly in a well-ventilated place and be kept dry.



*Formation of the **patina** is important in providing extended chain life*



KITO PWB, formerly PWB Anchor Limited, have been manufacturing a range of sizes of galvanised welded steel chain for mooring, anchoring and marine applications for many decades. These popular brands of **Grade L, Grade L Fathom Chains, Grade P and Proof Coil** are fit for purpose, but due to the environment they are used in, require care in their storage and use to ensure full product life is achieved.

# Mild Steel Chains

## Facts about Galvanising

We take every precaution in the manufacturing and galvanising processes to ensure the galvanised coating produced on the chains is consistent. Here are some informative facts about galvanising that will help with understanding the importance of correct storage.

- The outer pure zinc layer of newly galvanised chain is comparatively soft and shiny.
- When the new chain gets wet the zinc turns into zinc hydroxide which is porous and gelatinous. It has no strength and can easily wear off.
- If the chain is dried out the zinc hydroxide turns into a hard protective zinc carbonate layer called a patina. This patina makes galvanised chain much harder and more corrosion resistant.
- The outer layer develops a hard patina in 6 -12 months by natural weathering of the galvanised surface. By weathering we mean alternate cycles of the chain being wet and dry.
- If the chain does not get enough of the dry part of the cycle, the zinc will turn into zinc hydroxide and just rub off.

- Presence of moisture and lack of drying or ventilation will also cause wet storage stain or “white rust”.
- Wherever possible store in a well-ventilated area under cover.
- Consider using plastic grating or rubber grass mats in the storage area to keep the chain dry.
- Always de-lid drums and containers of bulk chain to let the chain breathe.
- Where possible, every few months lay the chain out in the sun and air to fully dry out.
- Any bare steel exposed through mechanical damage should be sprayed with cold galvanising.



## How long will my Anchor Chain Last?

The answer to this question is very much dependent on where the chain is being used, how often it is used, how it is cared for and how it is stored when not in use. The rate of corrosion of galvanised chain is affected by many things. All of these factors should be considered when discussing chain life.

- The initial treatment and storage of the chain, whether it is kept in a sealed container or allowed to weather and dry out.
- The water temperature, whether warm tropical or cooler southern waters, and the water type, whether sea water, fresh soft water, fresh hard water.
- Any mechanical wear of the chain on the boat, such as rubbing on gypsy or rolling over anchor wheel.
- Any abrasive wear in the water such as the boat drifting at its mooring dragging the chain in sand, dragging chain over rocks and so on.

- Where the vessel is moored, such as close to a river, close to effluent outfall, close to strong currents.
- The velocity of water the vessel is moored in, such as still, light currents, strong currents, waves etc
- The depth of the chain in the water. High oxygen levels in the splash zone and tidal zone accelerate corrosion, whereas low oxygen levels in deep water produce lower corrosion levels.
- Distance from the coast has a significant effect on corrosion levels. For example, salt air concentrations are higher near the sea but can blow inland quite a distance.
- Cleanliness of the anchor chain is important. Salt and mud should be washed off regularly with potable water.

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# ***KITO PWB® GRADE L CHAIN - GALVANIZED***



## **Applications**

- ✓ Used as fathom, mooring and anchoring
- ✓ Ideal for the marine, boating fishing, leisure craft, aquaculture industries

## **Features**

- ✓ Manufactured primarily for mooring and anchoring applications.
- ✓ KITO PWB® Grade L Chain is also the highest quality lower tensile steel available for lifting purposes.
- ✓ Chain sizes 6mm to 22mm available.
- ✓ Selected Grade L Chains are also available in special cut lengths, chain sizes 8mm to 13mm.
- ✓ Test certificates supplied.

The WLL (working load limit) states Grade L Chain is rated for general conditions of use to group classification of crane mechanisms of M3 as specified in AS1418.1, and in accordance with AS2321 for industrial lifting applications.

For other than general conditions of use the WLL shall be adjusted to conform to the group classification of crane mechanisms as specified in AS1418.1 for the conditions of use that apply.

**Australian standard:** AS 2321

**Chain Size:** 6 – 22mm

Used by respected boat builders across the country, Grade L Chains are manufactured in Australia from Australian steel. Grade L Chain is the highest quality lower tensile steel available for lifting purposes.

## **Available in**

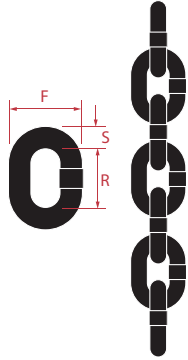


Special cut lengths

## Mild Steel Chains

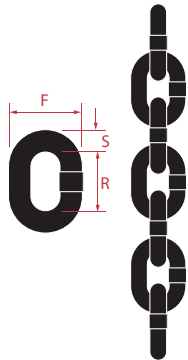
### Specifications

#### ➤ Grade L Chain – Galvanized



| Chain Size (mm) | Design 5:1 (Lifting) WLL (tonnes) | Design Factor 4:1 (Mooring) MWL (tonnes) | S (mm) | R (mm) | F (mm) | Self-Colour Part No. | Metres/100kg | Galvanised Part No. | Metres/100kg | Link Marking |
|-----------------|-----------------------------------|--|--------|--------|--------|----------------------|--------------|---------------------|--------------|--------------|
| 6               | 0.40                              | 0.50                                     | 6.3    | 18.8   | 21.6   | 40073                | 116.0        | 40074               | 110.0        | PWB-L        |
| 8               | 0.64                              | 0.80                                     | 8.0    | 23.8   | 27.0   | 40075                | 71.4         | 40076               | 67.8         | PWB-L        |
| 10              | 1.00                              | 1.26                                     | 10.0   | 29.8   | 34.3   | 40077                | 45.4         | 40078               | 43.2         | PWB-L        |
| 13              | 1.70                              | 2.10                                     | 12.7   | 38.0   | 43.0   | 40079                | 29.6         | 40080               | 27.8         | PWB-L        |
| 16              | 2.58                              | 3.20                                     | 16.0   | 47.8   | 54.9   | 40081                | 17.8         | 40082               | 17.5         | PWB-L        |
| 20              | 4.03                              | 5.00                                     | 20.0   | 59.2   | 68.5   | 40083                | 11.3         | 40084               | 11.1         | PWB-L        |
| 22              | 5.06                              | 6.30                                     | 22.0   | 64.9   | 77.0   | 40085                | 9.5          | 40086               | 9.2          | PWB-L        |

#### ➤ Grade L Chain – Galvanized – Cut Lengths



| Chain Size (mm) | S (mm) | R (mm) | F (mm) | Cut Length (metres) | Galvanised Part No. |
|-----------------|--------|--------|--------|---------------------|---------------------|
| 8               | 8.0    | 23.8   | 27.0   | 6 x 55              | 68233               |
| 8               | 8.0    | 23.8   | 27.0   | 5 x 70              | 68244               |
| 10              | 10.0   | 29.8   | 34.3   | 3 x 70              | 68156               |
| 10              | 10.0   | 29.8   | 34.3   | 2 x 100             | 68201               |
| 10              | 10.0   | 29.8   | 34.3   | 3 x 60              | 68295               |
| 10              | 10.0   | 29.8   | 34.3   | 2 x 80              | 68296               |
| 13              | 12.7   | 38.0   | 43.0   | 1 x 100             | 68202               |
| 13              | 12.7   | 38.0   | 43.0   | 2 x 70              | 68322               |

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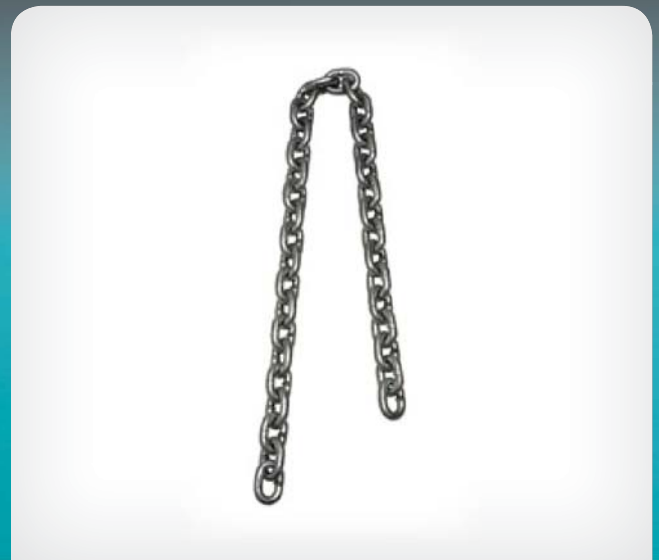
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# ***KITO PWB® GRADE L FATHOM CHAIN***



## **Applications**

- ✓ Used in the commercial fishing and leisure craft industries

## **Features**

- ✓ Available in various lengths.
- ✓ Provided with galvanized end links as standard.
- ✓ The maximum working load stated is based on a Design Factor of 4:1.
- ✓ Fathom Chains are NOT certified for industrial lifting.
- ✓ Test certificates supplied.

**Australian standard:** AS 2321

**Chain Size:** 10 – 22mm

Manufactured from Grade L Chain with additional end link fittings, KITO PWB® Fathom Chains are supplied in a hot dip galvanised finish for added durability.

## **Available in**

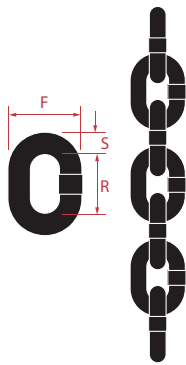


109m, 137m & 164m

## Mild Steel Chains

### Specifications

- **Grade L Fathom Chain – 60 Fathom (109m)**
- 75 Fathom (137m)**
- 90 Fathom (164m)**



| Chain Size (mm) | MWL (tonnes) | S (mm)    | R (mm) | F (mm) | 60 Fathom<br>(109 metres)<br>Part No. | 75 Fathom<br>(137 metres)<br>Part No. | 90 Fathom<br>(164 metres)<br>Part No. |
|-----------------|--------------|-----------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
|                 |              | End Links |        |        |                                       |                                       |                                       |
| 10              | 1.26         | 12.0      | 51.7   | 45.0   | 40785                                 | 40786                                 | 40787                                 |
| 13              | 2.10         | 16.0      | 59.0   | 57.3   | 40793                                 | 40794                                 | 40795                                 |
| 16              | 3.20         | 20.0      | 73.0   | 71.10  | 40801                                 | 40802                                 | 40803                                 |
| 20              | 5.00         | 24.0      | 87.0   | 84.8   | 40809                                 | 40810                                 | 40811                                 |
| 22              | 6.30         | 29.0      | 112.0  | 110.0  | 40817                                 | 40818                                 | 40819                                 |

### Application



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# **KITO PWB® REGULAR PROOF COIL CHAIN**



## **Applications**

- ✓ Used in manufacturing, marine and agricultural industries
- ✓ Ideal for a wide variety of mooring and general applications

## **Features**

- ✓ Manufactured in Australia.
- ✓ Chain sizes available from 6mm to 24mm in self-color and galvanized.
- ✓ Pail Paks available in self colour and galvanised finishes in handy reuseable 20 litre plastic containers.
- ✓ Pail Paks 6mm to 13mm are prepacked from chain manufactured in Australia.
- ✓ Not suitable for industrial lifting purposes.
- ✓ Test certificates available on request.

The MWL stated is for guidance in the selection of a chain with sufficient strength for intended applications. Dimensions and masses subject to commercial tolerances and design changes without notice.

**Chain Size:** 3 – 24mm

Manufactured from a lower grade carbon steel, this versatile range of chain is proof tested to at least twice the maximum load recommended for normal use.

## **Available in**

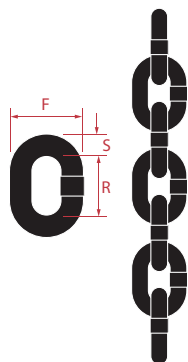


Easy-to-handle  
pail pak

## Mild Steel Chains

### Specifications

#### ➤ Regular Proof Coil Chain



| Chain Size (mm) | MWL (tonnes) | S (mm) | R (mm) | F (mm) | Part No. (Self-Colour) | Metres/100kg | Part No. (Galvanised) | Metres/100kg | Link Marking |
|-----------------|--------------|--------|--------|--------|------------------------|--------------|-----------------------|--------------|--------------|
| 3               | 0.06         | 3.0    | 16.6   | 13.1   | 41717                  | 602.0        | 41718                 | 585.0        | -            |
| 4               | 0.11         | 3.8    | 19.6   | 15.8   | 41719                  | 378.0        | 41720                 | 367.0        | -            |
| 5               | 0.19         | 4.75   | 23.2   | 19.1   | 41721                  | 245.0        | 41722                 | 238.0        | -            |
| 6               | 0.32         | 6.0    | 28.0   | 24.0   | 40019                  | 144.1        | 40021                 | 135.7        | PWB          |
| 8               | 0.53         | 7.6    | 35.8   | 29.2   | 40024                  | 90.6         | 40026                 | 87.7         | PWB          |
| 10              | 0.86         | 9.5    | 43.4   | 35.5   | 40029                  | 59.0         | 40031                 | 57.8         | PWB          |
| 13              | 1.50         | 12.0   | 51.7   | 44.5   | 40034                  | 35.5         | 40036                 | 34.6         | PWB          |
| 16              | 2.31         | 16.0   | 59.6   | 57.3   | 40038                  | 19.0         | 40039                 | 18.6         | PWB          |
| 20              | 3.67         | 20.0   | 73.3   | 71.0   | 40040                  | 12.3         | 40041                 | 12.0         | PWB          |
| 24              | 5.34         | 24.0   | 87.0   | 84.8   | 40042                  | 8.6          | 40043                 | 8.4          | PWB          |

#### ➤ Regular Proof Coil Chain – Pail Pak



| Chain Size (mm) | Metres/Pail Pak | Part No. (Self-Colour) | Metres/Pail Pak | Part No. (Galvanised) | Approx Weight (kg) |
|-----------------|-----------------|------------------------|-----------------|-----------------------|--------------------|
| 3               | 100             | 41440                  | 100             | 41443                 | 100.0              |
| 4               | 80              | 41441                  | 80              | 41444                 | 80.0               |
| 5               | 50              | 41442                  | 50              | 41445                 | 50.0               |
| 6               | 60              | 41461                  | 60              | 41471                 | 44.3               |
| 8               | 40              | 41462                  | 40              | 41472                 | 45.6               |
| 10              | 25              | 41463                  | 25              | 41473                 | 43.3               |
| 13              | 15              | 41464                  | 15              | 41474                 | 43.4               |

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# **KITO PWB® LONG PROOF COIL CHAIN**



## **Applications**

- ✓ Used in a wide variety of agricultural and general applications
- ✓ Ideal for agricultural equipment, barriers, general purpose uses

## **Features**

- ✓ Longest link formation in the proof coil range.
- ✓ Sizes 6mm to 10mm manufactured in Australia, from Australian made steel.
- ✓ Proof Coil Chain is not suitable for industrial lifting purposes.
- ✓ Test certificates available on request.

The MWL (Maximum Working Load) stated is for guidance in the selection of a chain with sufficient strength for intended applications.

Dimensions and masses subject to commercial tolerances and design changes without notice.

**Chain Size:** 3 – 10mm

With the longest link formation in the proof coil range, the KITO PWB® Long Proof Coil Chain features more generous link dimensions to provide more metres per 100kg.

## **Available in**

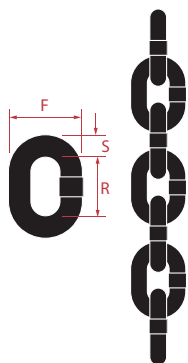


Easy-to-handle  
pail pak

## Mild Steel Chains

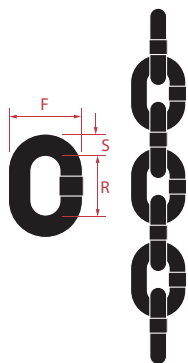
### Specifications

#### ➤ Long Proof Coil Chain



| Chain Size (mm) | MWL (tonnes) | S (mm) | R (mm) | F (mm) | Part No. (Self-Colour) | Metres/100kg | Part No. (Galvanised) | Metres/100kg | Link Marking |
|-----------------|--------------|--------|--------|--------|------------------------|--------------|-----------------------|--------------|--------------|
| 3               | 0.05         | 3.0    | 23.2   | 15.4   | 41723                  | 649.0        | 41724                 | 620.0        | -            |
| 4               | 0.09         | 3.8    | 26.8   | 18.4   | 41725                  | 391.0        | 41726                 | 379.0        | -            |
| 5               | 0.15         | 4.8    | 29.8   | 21.5   | 41727                  | 243.0        | 41728                 | 233.0        | -            |
| 6               | 0.26         | 6.0    | 36.2   | 26.0   | 40059                  | 152.1        | 40061                 | 148.4        | PWB          |
| 8               | 0.46         | 7.6    | 43.5   | 31.0   | 40063                  | 93.4         | 40065                 | 91.1         | PWB          |
| 10              | 0.75         | 9.5    | 53.1   | 39.0   | 40067                  | 61.2         | 40069                 | 59.7         | PWB          |

#### ➤ Long Proof Coil Chain – Galvanized – Pail Pak



| Chain Size (mm) | Metres/Pail Pak | Part No. (Self-Colour) | Metres/Pail Pak | Part No. (Galvanised) | Approx Weight (kg) |
|-----------------|-----------------|------------------------|-----------------|-----------------------|--------------------|
| 3               | 100             | 41450                  | 100             | 41453                 | 16.5               |
| 4               | 80              | 41451                  | 80              | 41454                 | 19.5               |
| 5               | 50              | 41452                  | 50              | 41455                 | 22.0               |
| 6               | 60              | 41501                  | 60              | 41511                 | 40.5               |
| 8               | 40              | 41502                  | 40              | 41512                 | 43.2               |
| 10              | 25              | 41503                  | 25              | 41513                 | 43.1               |

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