

Marine & Shipbuilding



EXPERTISE



COLLABORATION



INTEGRITY

- Copper & Nickel Alloys
- Aluminium
- Stainless Steel
- Plastics
- Composites
- Special Products

Righton Blackburns is the leading supplier of metals and plastics to today's marine and shipbuilding industry

Offering the most comprehensive and
market specific range of products available.

The first choice for quality and service,
Righton Blackburns satisfies the diverse and
exacting requirements for high strength and
corrosion-resistant material for all marine
markets, including:

- Naval & Commercial Craft
- Pleasureboats
- Workboats
- Fast Craft
- Outfitting
- Marine Subcontractors



The specialist supplier of metals & specialist plastics to the marine industry



Copper & Nickel Alloys

Copper is a very versatile metal, offering good resistance to corrosion in marine atmospheres and in seawater with moderate flow velocities. Its properties, both in terms of corrosion resistance and mechanical strength, can be further improved by alloying. The main copper alloys for marine service are bronzes, brasses, copper and copper nickels.

Aluminium Bronze Grades

NES 833
(DEFSTAN 02-833)

DTD197

CA104

NES 834
(DEFSTAN 02-834)

CW307G

CA107

C63000

CW301G

BSB 23

Phosphor, Lead & Manganese Bronze Grades

CC491K
(LG2)

NES 838
(DEFSTAN 02-838)

CC492K
(LG4)

C93200
(SAE 660)

CW451K
(PB102)

CW721R
(CZ114)

Brass Grades

CW614N
(CZ121)

CW712R
(CZ112)

Copper Grades

CW024A
(C106 HH)

NES837
(DEFSTAN 02-878)

Copper Nickel Grades

NES 780
(DEFSTAN 02-878) 70/30

NES 779
(DEFSTAN 02-878) 70/30

NES 835
(DEFSTAN 02- 835)

NES 780
(DEFSTAN 02-879)

Nickel Alloys Grades

Alloy 400

Alloy 500



Aluminium

Vessels constructed from aluminium can stay in service for several decades without sustaining any measurable corrosion. Aluminium is lightweight and requires little maintenance, can be easily fabricated and has good post-weld yield strength and fatigue resistance. Aluminium can be used in a variety of applications including hull and deck structures for fast ferries and workboats, trim for pleasureboats, ladders, hatches, portholes and bulkheads.

Grades

5083 F

5754 H114

5083 H321

Triplate®

6082 T6 Treadplate:



Stainless Steel

A hugely versatile material with many unique properties, stainless steel is an exceptional option for many marine applications. It has superior corrosion resistance, as well as high impact and temperature strength. Easy to clean and with good visual appeal, it is the ideal material for handrails, heat exchangers, deck fittings, propellers, offshore rigs, hydraulic systems and fluid storage tanks.

Grades

Commercial
1.4307 (304L)

Precipitation Hardening
1.4542 (17-4)

Duplex
1.4462 (F51)

Nitrogen Strengthened
XM-19 (UNS S20910)

Super Duplex
1.4501/F55



Plastics

The marine applications for plastics are wide and varied including boat screens, flat panel windows and hatches. With exceptional optical clarity, weather and UV resistance and resistance to scratching, acrylic sheet is ideally suited to screen and window applications. Polycarbonate sheet is the perfect choice for windshields, windows and other safety glazing and protective screening applications. PVC foams are excellent for applications where resistance to humidity, weathering and aggressive substances is required.

Grades

Cast and Extruded Acrylic

PVC Foam

Polycarbonate

Composites

Composites have grown in popularity for marine use because they offer a more practical alternative to wood or steel. Favoured for their low magnetism and resilience to wave-induced shock loads, they are also light, strong in tension, stiffer for their weight than steel or aluminium and fatigue resistant. They do not corrode in the marine environment, absorb vibrations, are low maintenance and can be fabricated into complex shapes. Composites now have suitable marine fire approvals and simplify outfitting.

Grades

Alucore® -
Aluminium honeycomb panel

Kapatech® -
PUR foamboard with aluminium skin

Alucobest® -
Aluminium composite panel

Bondal® -
Vibration reducing composite material



Special Products

A range of special products can be supplied to meet the exacting needs of different marine applications.

For example, titanium offers exceptional corrosion resistance so is ideally suited to particularly harsh environments, as is Tungum, an alloy which is highly resistant to seawater and its atmosphere.

If high structural strength is an overriding consideration, then Corten is a good option, while tube bundles, forgings and castings, and general and high yield steels can all offer benefits to meet specific marine requirements.

Grades

Titanium

Corten®

Tungum®

Tube Bundles

Forgings

Castings

General and High Yield Steel

Carbon Steel Pipe and Fittings

Machined Components including
Connectors, Fittings and Flanges



Righton Blackburns is an independent metals and specialist plastics stockholder and distributor. We have been a trusted supply partner for premium quality products for over 100 years.

Today we are recognised as the leading supplier to a diverse customer base including safety-critical markets, government agencies and departments, and FTSE 100 companies.

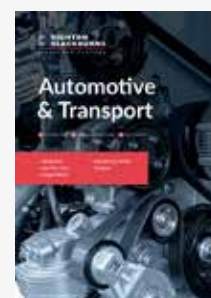
Our reputation is founded on both the efficiency and integrity of our business dealings, as well as our proven ability to innovate and respond to change. This strength and agility remain true today.

Operating from 10 Service Centres across the UK, we are well placed to service any requirement from one-off supplies, to direct-to-line feed services and long term contracts.

Dedicated to the continued development of new business and backed by our ISO9001-2015 status, we guarantee that exceptionally high-quality products and service will always be the Righton Blackburns' standard.

Specialist Markets

For further information on the full range of products we supply into our specialist markets, please contact your local Service Centre to request a copy of the brochures dedicated to those specific markets.



Service Centres

Operating a reliable and efficient delivery service from our 10 Service Centres nationwide, we offer in-house processing facilities. In addition to next day delivery from locally-held stock, we also provide non-standard or customer specific material.

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