

MARKET

MARINE EXTRUSIONS



Created and patented by Constellium, SEALIUM® has been the Excellence of the Metal for years, SEALIUM® became an international reference for shipbuilders, designers and manufacturers of long vessels, yachts and ferries.

WIDE RANGE OF ALUMINIUM PRODUCTS

Constellium's on site cast house allows us to offer short lead-times on a wide range of alloys.

Billets can be ultrasonically tested to AMS-STD-2154 Class A



BARS

Our 6 extrusion presses as well as our quenching furnaces and all downstream equipment allow Constellium to produce a wide range of sizes and geometries:

BARS		Dimensions			
		Montreuil-Juigné	Issoire	Montreuil-Juigné	Issoire
Round, half round	Min	20 mm	150 mm	0.787"	5.90"
	Max	150 mm	305 mm	5.906"	12"
Square	Min	30x30 mm	120 mm ≤ Thick ≤ 250 mm	1.18" x 1.18"	4.72" ≤ Thick ≤ 9.843"
	Max	127x127 mm		5" x 5"	
Rectangular	Min/Max	12,7 mm ≤ Thick ≤ 127 mm	15 mm ≤ Thick ≤ 200 mm	0.5" ≤ Thick ≤ 5"	0.59" ≤ Thick ≤ 7.874"
	Min/Max	36 mm ≤ Width ≤ 241 mm	120 mm ≤ Width ≤ 400 mm	1.42" ≤ Thick ≤ 9.49"	4.72" ≤ Thick ≤ 15.75"

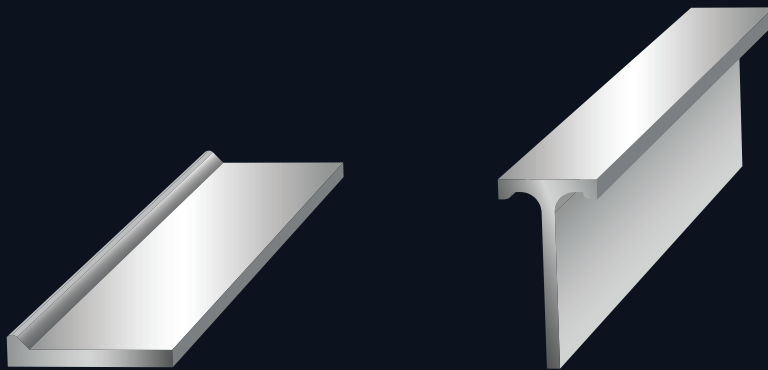
Bars with US control as per AMS-STD-2154 Class A



PROFILES

Standard L, T, U as well as complex geometries can be available.
Below data as min and max indicators.

PROFILES		Dimensions			
		Montreuil-Juigné	Issoire	Montreuil-Juigné	Issoire
Circumscribed circle	Max	286 mm	400 mm	11.26"	15.75"
Thickness	Min	1 mm	8 mm	0.04"	0.31"
Weight / Meter	Min	0,150 kg/m	10 kg/m	0.100 lb/Ft	6.72 lb/Ft
Length	Max	12 meter	22 meter	39 Ft	72 Ft



AVAILABLE IN A WIDE RANGE OF IN HOUSE CASTED ALLOYS

Constellium can offer a wide range of conventional alloys but also light, strong and corrosion-resistant advanced alloys (5083, 5086, 5383). Available in H111, H112 and H116. The most appropriate for marine purposes is SEALIUM® with following benefits:

SEALIUM®

- Major weight savings
- Corrosion resistance
- Higher fatigue resistance
- Flexibility of design
- Easy machining
- Easy welding
- Easy to shape and bend
- Assembly advantages



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