



Aluminium
for the world

GOING ABOVE AND BEYOND TO DELIVER VALUE TO THE WORLD

PRODUCT BROCHURE
www.albasmelter.com

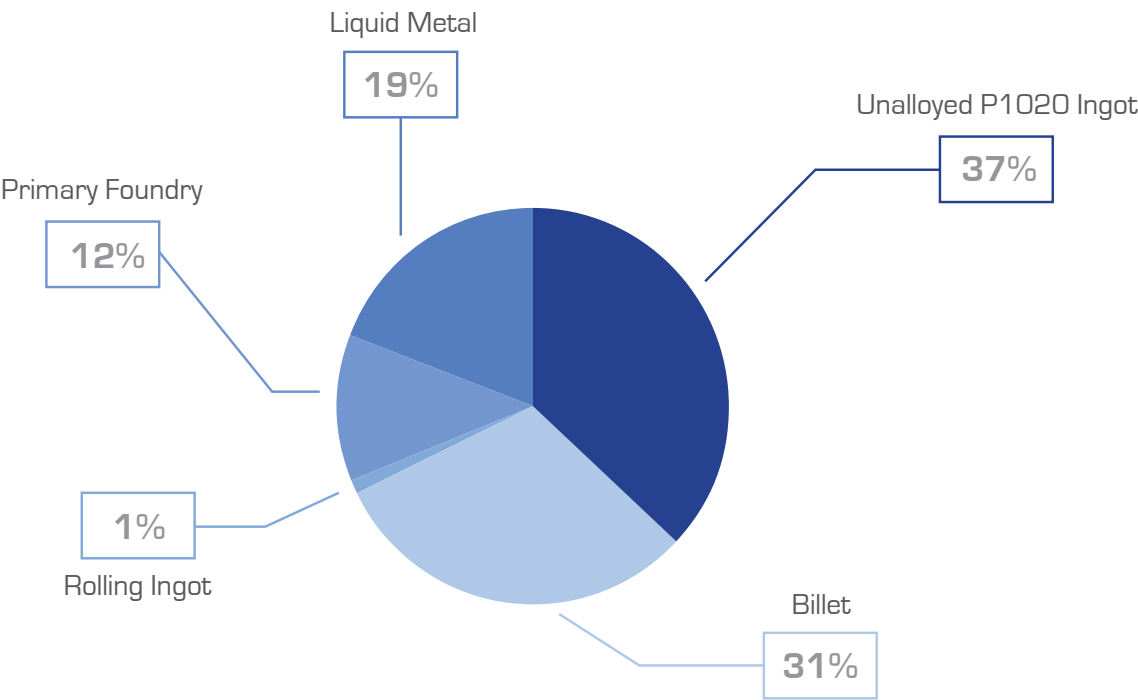


OUR PRODUCTS

Aluminium Bahrain B.S.C. (Alba) produces quality aluminium products in the following categories:

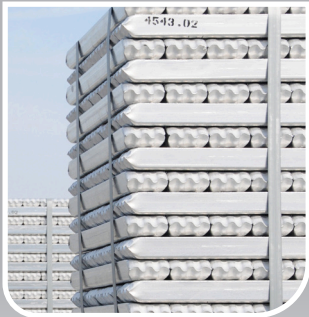
- 1. Foundry grade re-melt products (T-Ingots, 10 Kg Standard Ingots, 22.5 Kg Standard Ingots, and Properzi Bars 9.7 Kg)
- 2. Rolling Ingots (Slabs)
- 3. Extrusion Ingots (Billets)
- 4. Unalloyed P1020 re-melt products (T-Ingots, 10 Kg Standard Ingots, 22.5 Kg Standard Ingots, and Sows)
- 5. Liquid metal

ALBA SALES BY PRODUCT LINE





STANDARD INGOTS
10KG



PROPERZI INGOTS



LIQUID METAL



STANDARD INGOTS
22KG



T-INGOTS



EXTRUSION INGOTS
[BILLETS]



ROLLING SLABS

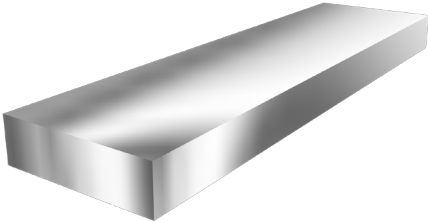
“
**Proudly
Made in Bahrain**
”

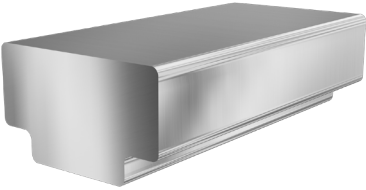
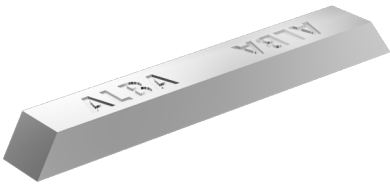
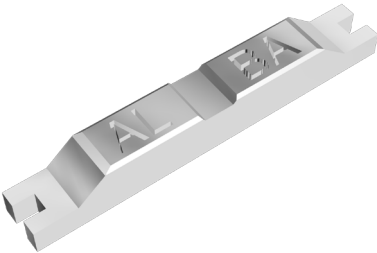
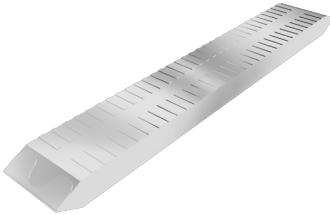

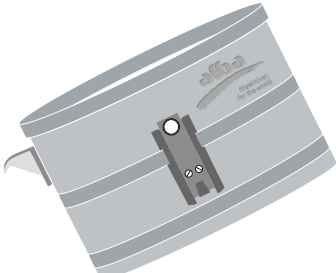


We produce more than just top quality metal. We produce a unique experience for our customers in meeting the stringent requirements for their end products, and bringing value to their production process.

In addition to our portfolio of products, we also provide superior technical support services that have earned the trust and loyalty of our growing list of customers around the world.

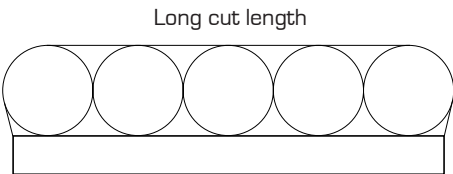
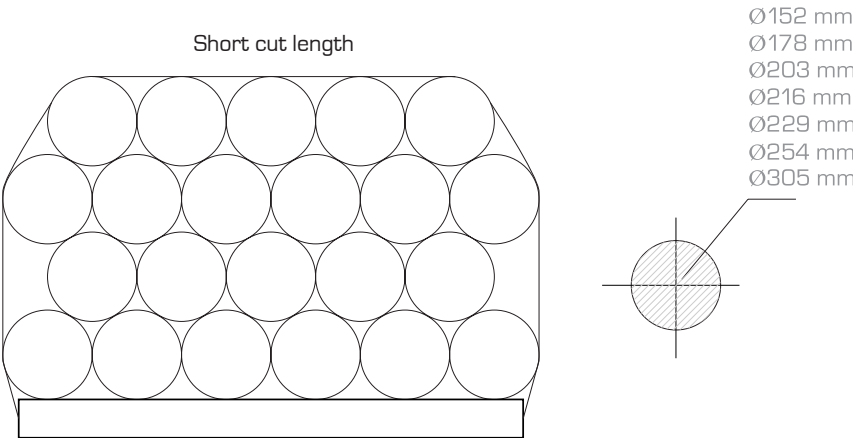
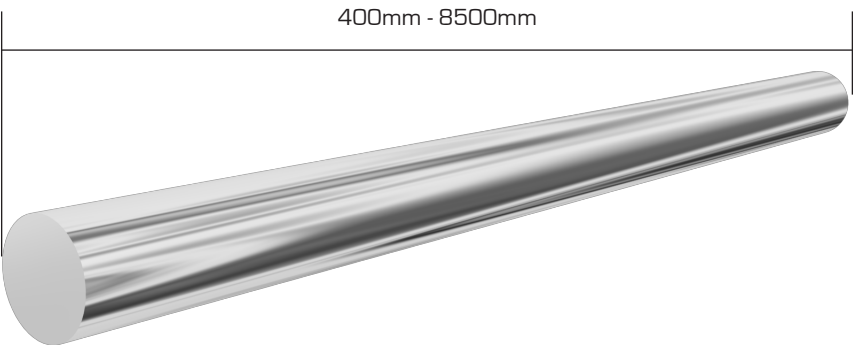
| Product | Major Alloys | Shape |
|----------------------------|--------------|---|
| Extrusion Ingots (Billets) | Soft Alloys: |  |
| | AA6060 | |
| | AA6063 | |
| | AA6463 | |
| | AA6005 | |
| | AA6005A | |
| | AA6101 | |
| | AA6105 | |
| | AA6106 | |
| | AA1070 | |
| | AA1050 | |
| | AA1100 | |
| | AA3103 | |
| | AA3003 | |
| | Hard Alloys: | |
| | AA6061 | |
| | AA6082 | |
| | AA6351 | |
| | AA6008 | |

| Product | Major Alloys | Shape |
|------------------------|--------------|--|
| Rolling Ingots (Slabs) | Soft Alloys: |  |
| | AA1070 | |
| | AA1050 | |
| | AA1100 | |
| | AA1145 | |
| | AA1200 | |
| | AA1235 | |
| | AA3003 | |
| | AA3104 | |
| | AA8011 | |
| | AA8079 | |
| | AA8150 | |
| | Hard Alloys: | |
| | AA5005 | |
| | AA5052 | |
| | AA6022 | |
| | AA6111 | |

| Product | Major Alloys | Shape |
|----------------------------------|---|---|
| T-Ingots | Al-7%Si-Mg AlSi3 AA1070 (P1020 grade) |  |
| Open Mold 10 kg Standard Ingots | AlSi7Mg (A356.2) AlSi11 AlSi10Mn AlSi7Mg (Mn, Cu) AlSi3 AA1070 |  |
| Open mold 22.5kg standard ingots | AlSi7Mg (A356.2) AlSi11 AlSi10Mn AlSi7Mg (Mn, Cu) AlSi3 AA1070 |  |
| Closed Mold Properzi Bars 9.7kg | AlSi7Mg (A356.2) AlSi11 AlSi10Mn AlSi7Mg (Mn, Cu) AlSi3 |  |
| LME Sows | AA1070 AA1080 AA1085 AA1090 |  |
| Liquid Metal | AA1070 AA1080 AA1090 |  |

EXTRUSION INGOTS (BILLETS)

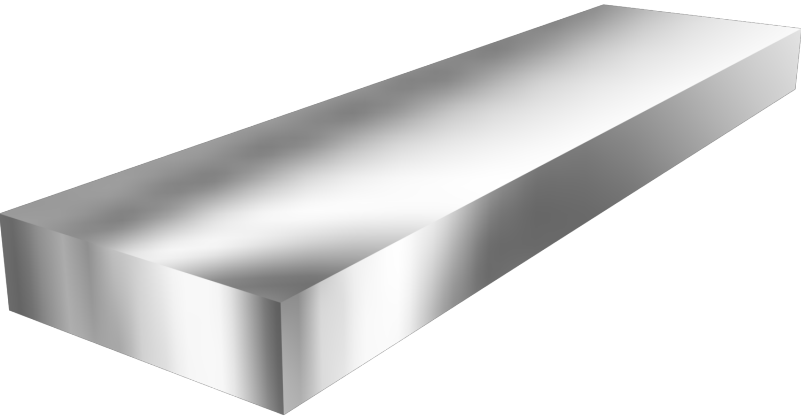
Our extrusion ingots are capable of being extruded into a range of profiles from soft to high strength applications and good surface finish for value added finishing applications such as anodizing and powder coating. Soft alloy applications include architectural applications, as well as building and kitchen sections. Hard alloys are used in a variety of engineering and transport applications.



ROLLING INGOTS (SLABS)

Rolling slabs are suitable for finished products such as ultra-light gauge foils as well as for cookware foil used for food wrapping. In lithographic applications, they are used in producing offset printing plates, and are also used in packaging, transport and aviation industries, construction and general engineering applications including paneling, flooring and roofing among others.

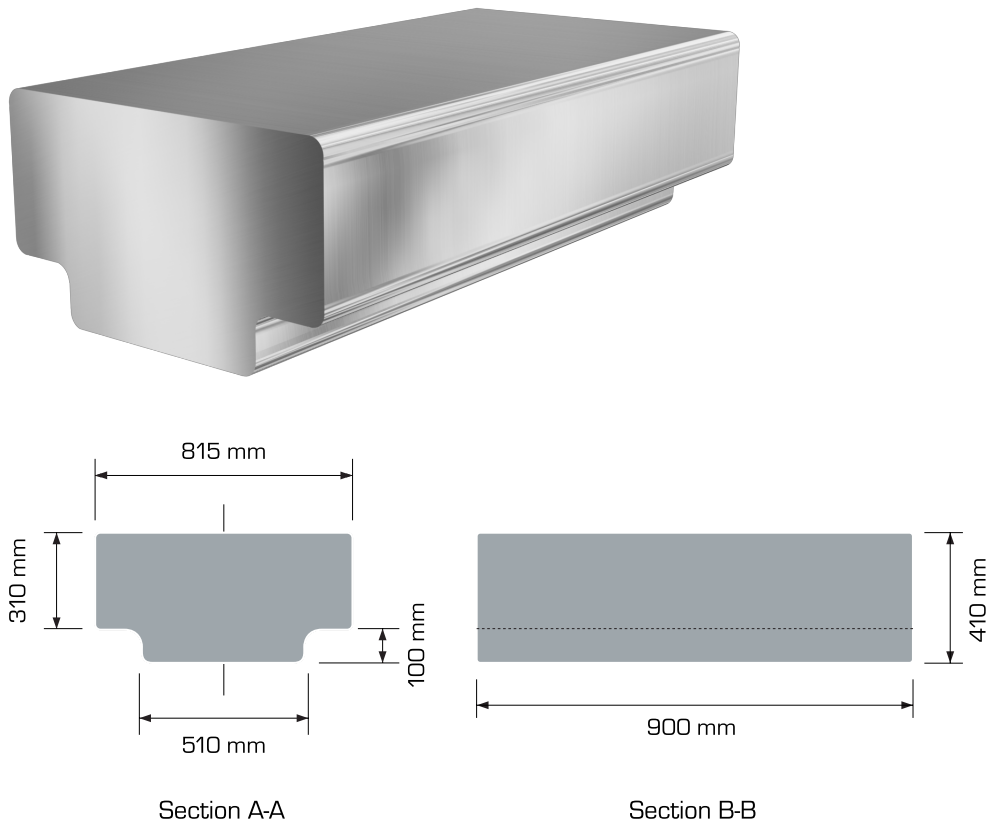
| | |
|----|---|
| 1. | Thickness: 460 mm |
| a. | Widths: 1030, 1100, 1200, 1290, 1350, 1500, 1650 mm |
| b. | Lengths: 4700 mm to 5000 mm |
| 2. | Thickness: 560 mm |
| a. | Widths: 1650 mm, 1750 mm, 1830 mm |
| b. | Lengths: 4500 mm to 10000 mm |
| 3. | Thickness: 610 mm |
| a. | Widths: 2100 mm |
| b. | Lengths: 4500 mm to 10000 mm |
| 4. | Thickness: 400 mm |
| a. | Widths: 1050, 1350, 1450, 1550 mm |
| b. | Lengths: 4500 mm to 10000 mm |



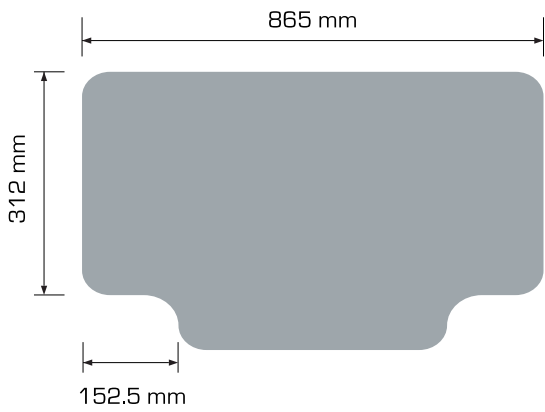
T-INGOTS

T-ingots in foundry alloys are produced using state-of-the-art casting and metal treatment systems, exceeding the most stringent of quality requirements. They are mainly used by the automotive industry for manufacturing high quality wheels and other chassis components. T-ingots in P1020 alloy are re-melted to produce a wide variety of end products covering the entire spectrum of aluminium applications.

Option 1:

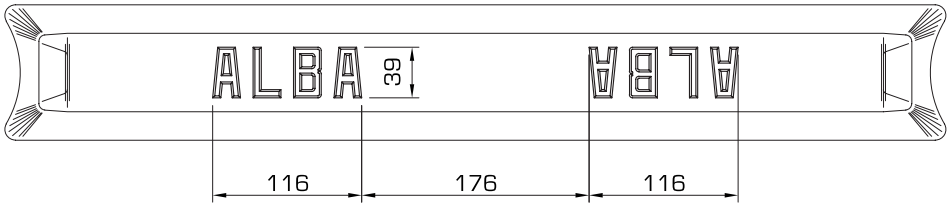
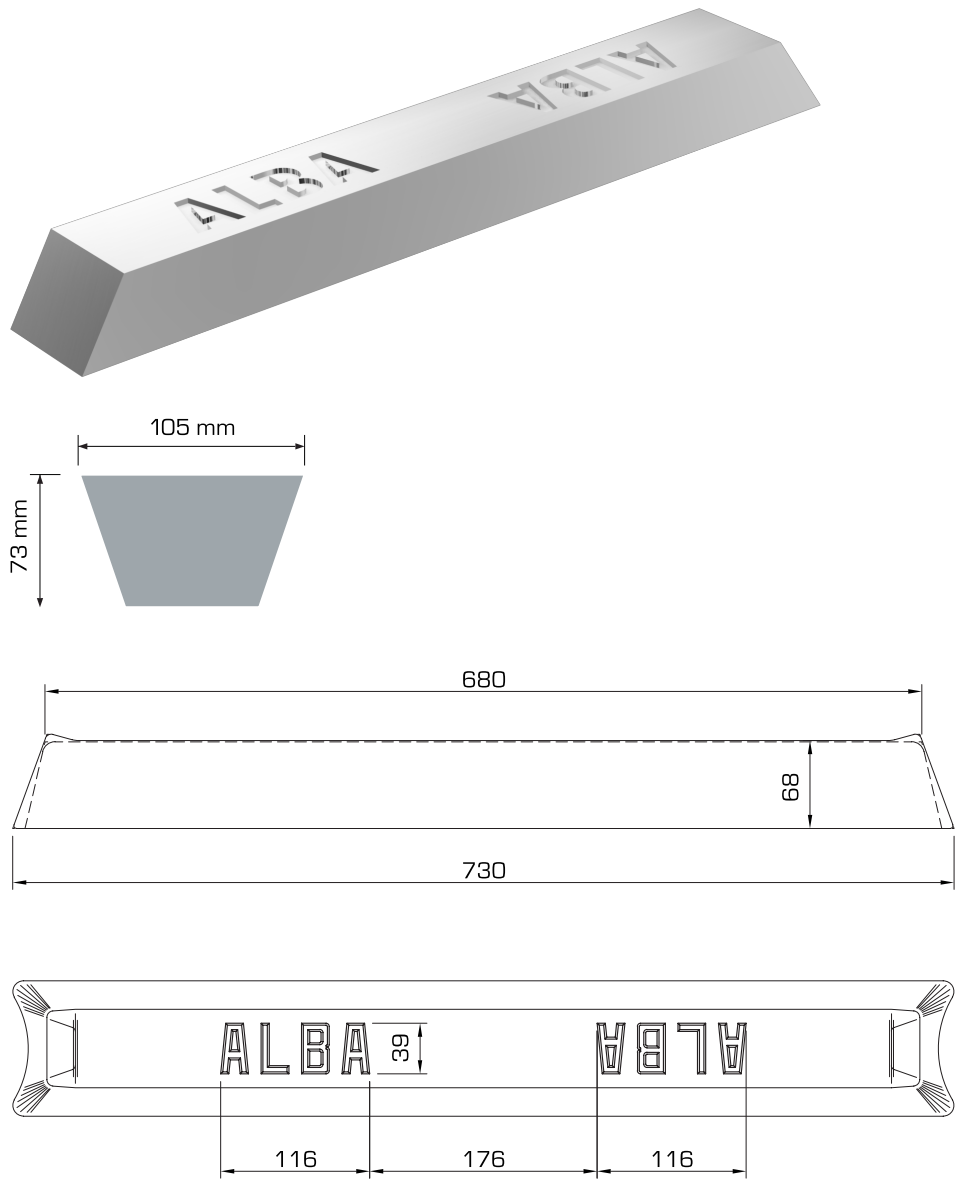


Option 2 (Unalloyed P1020 only):



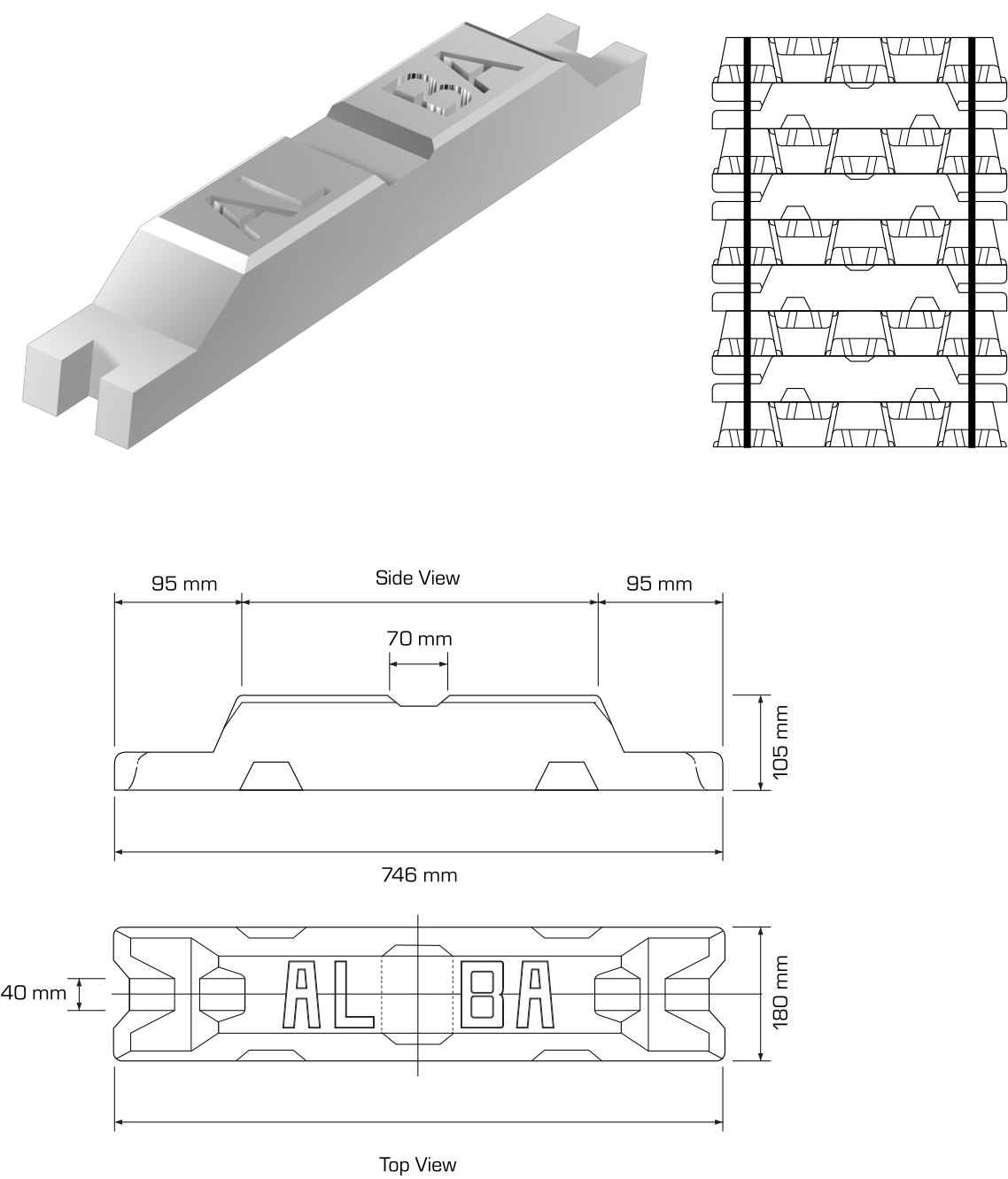
OPEN MOLD 10KG STANDARD INGOTS

10kg Standard Ingots in foundry alloys are produced using state-of-the-art casting and metal treatment systems, exceeding the most stringent of quality requirements. They are mainly used by the automotive industry for manufacturing high quality wheels and other chassis components. 10kg Standard Ingots in P1020 alloy are re-melted to produce a wide variety of end products covering the entire spectrum of aluminium applications.



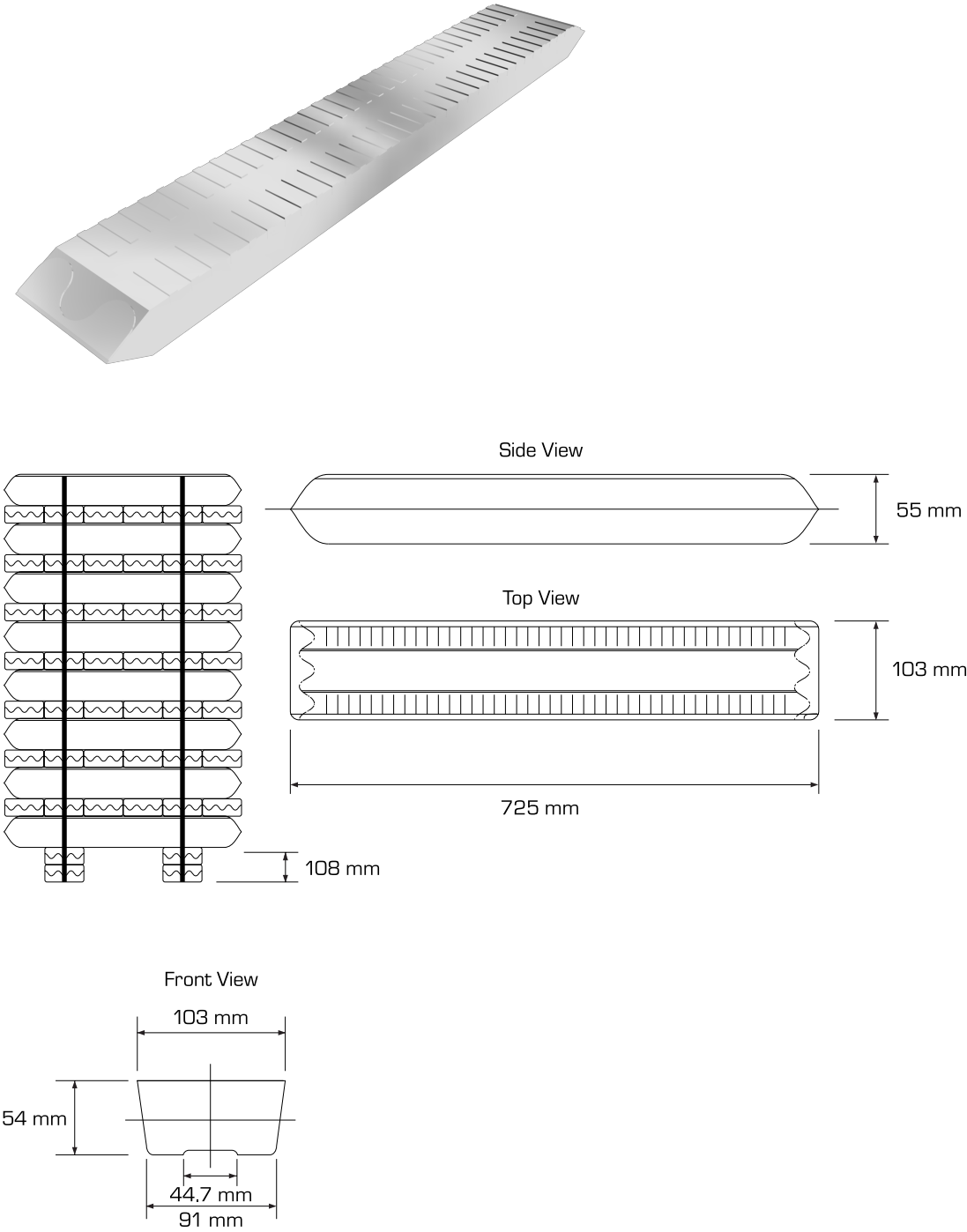
OPEN MOLD 22.5KG STANDARD INGOTS

22.5kg Standard Ingots in foundry alloys are produced using state of the art casting and metal treatment systems, exceeding the most stringent of quality requirements. They are mainly used by the automotive industry for manufacturing high quality wheels and other chassis components. 22.5kg Standard Ingots in P1020 alloy are re-melted to produce a wide variety of end products covering the entire spectrum of aluminium applications



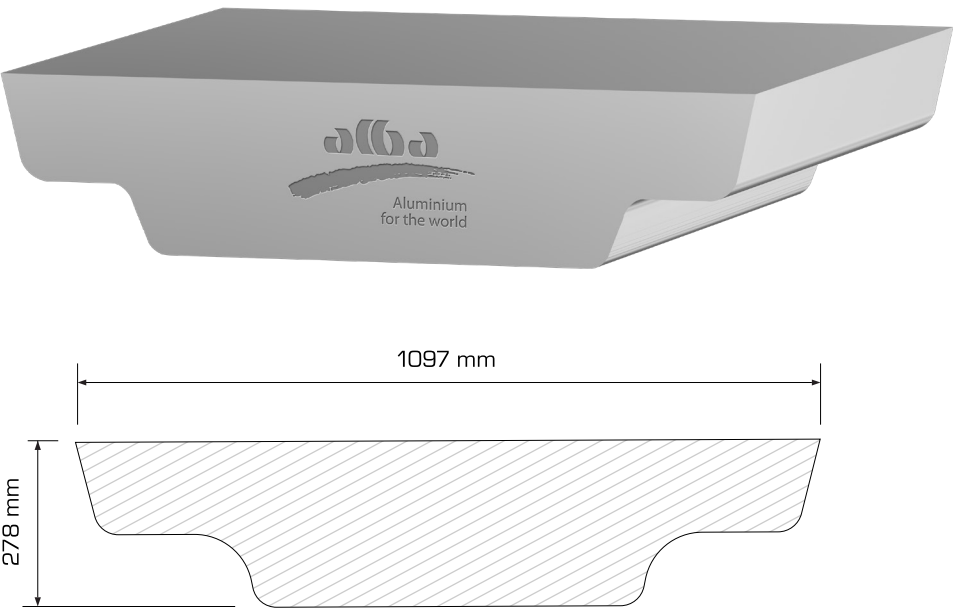
CLOSED MOLD PROPERZI BARS 9.7KG

Alba Properzi bars foundry alloys are produced using state-of-the-art casting and metal treatment systems, exceeding the most stringent of quality requirements. They are mainly used by the automotive industry for manufacturing high quality wheels and other chassis components.



LME SOWS

P1020 and higher grade LME Sows are conforming to London Metal Exchange standards and are used in many re-melting and casting applications including fabrication into various end-products such as pressure cookers and the facades of skyscrapers



LIQUID METAL

Liquid metal can be converted into a range of value-added products, primary aluminium based EC rods, alloy rods, and wire and alloy ingots. Other applications include aluminium powder and aluminium pellets, aluminium wires for electrical and mechanical use, curved line conductors, aluminium clad steel (ACS) wires for transmission lines, solid conductors and aluminium casting for cars and trucks wheels.

Alloys In Aluminium Association (AA)

Table # 1: Alloy specification of -1070.02alloy

| 1070.02 | SI | FE | CU | MN | MG | CR | NI | ZN | B | GA | V | TI | OTHER | T.OTHS | AL |
|---------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|--------|-------|
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.70 |
| Max | 0.10 | 0.20 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.005 | 0.03 | 0.03 | 0.03 | 0.03 | 0.10 | 99.99 |

Table # 2: Alloy specification of -1080.00alloy

| 1080.00 | SI | FE | CU | MN | MG | CR | NI | ZN | B | GA | V | TI | OTHER | T.OTHS | AL |
|---------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|--------|-------|
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.80 |
| Max | 0.08 | 0.10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.005 | 0.02 | 0.02 | 0.02 | 0.02 | 0.10 | 99.99 |

Table # 3: Alloy specification of -1090.02alloy

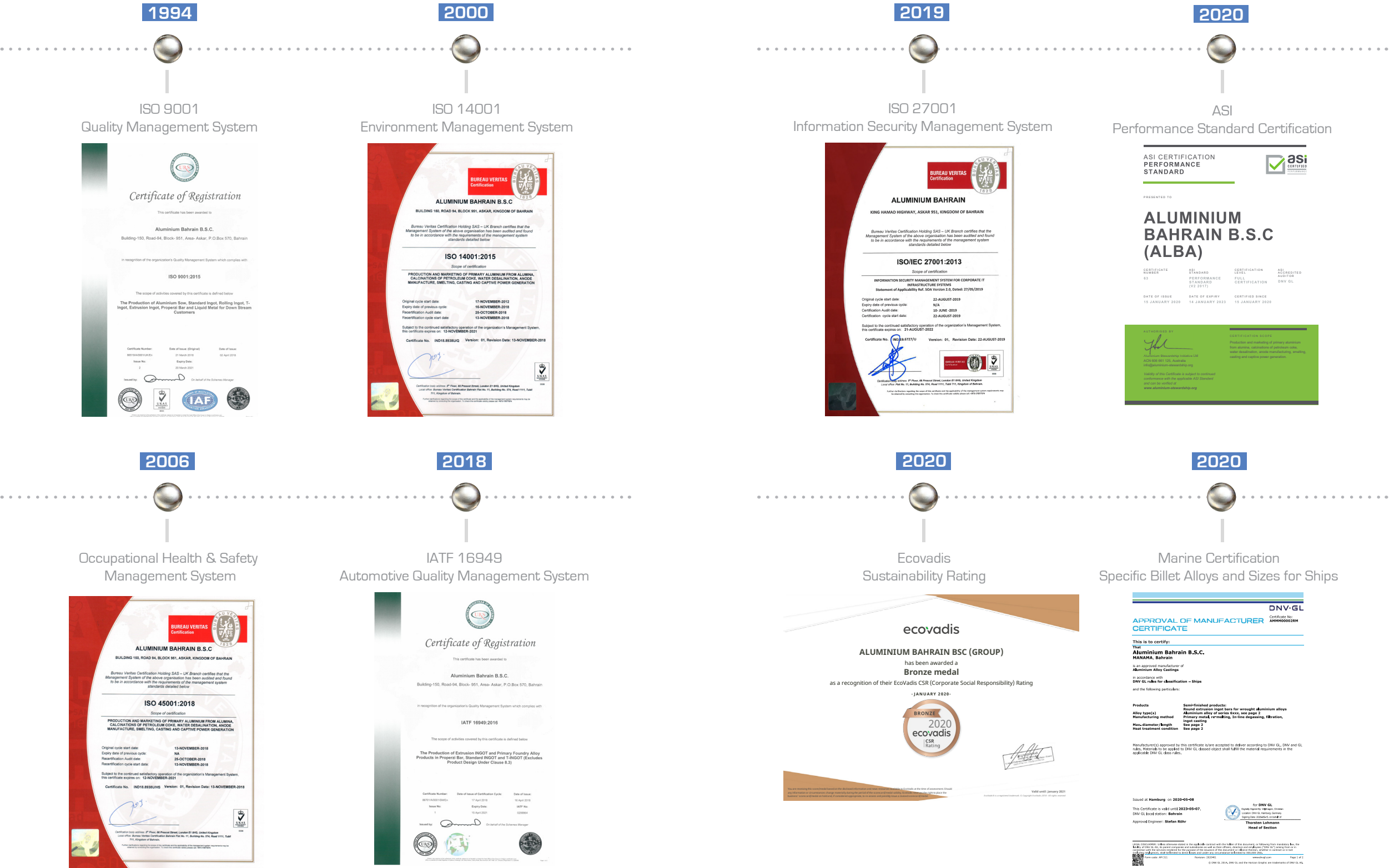
| 1090.02 | SI | FE | CU | MG | CR | NI | V | AL |
|---------|------|--------|-------|------|------|------|------|-------|
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 |
| Max | 0.06 | 0.0650 | 0.005 | 0.01 | 0.01 | 0.01 | 0.01 | 99.99 |



Condition: Skimmed
Crucible Net Weight Options: 5 MT, 11 MT, and 13.5 MT

ALBA CERTIFICATION*

Aluminium Bahrain B.S.C (Alba) management system is a proud recipient of several certifications in the fields of safety, environment, quality, and sustainability.



*The year refers to when Alba has received the certification for the first time

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Customer Technical Support

Our Customer Technical Service team, as part of the Metallurgy Department, strives for proactive customer technical support. In this process we conduct extrusion and foundry alloy workshops for our customers, operational surveys at customers sites to recommend areas of improvement and

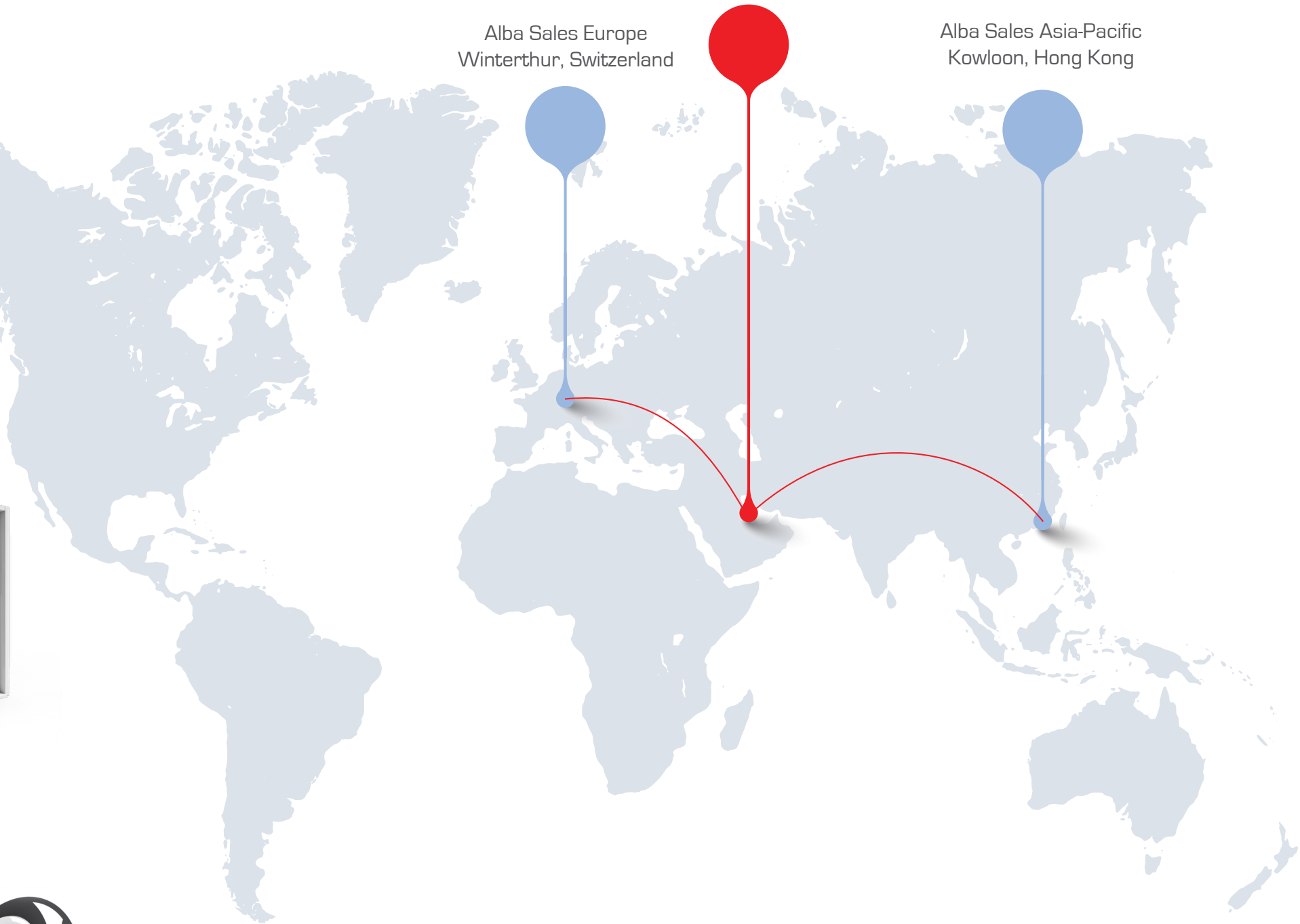
also collaborate with our customers in developing alloys with enhanced performance in their production operations. Alba's metallurgical testing and analytical facility is available at call to our customers and potential new customers for detailed study of the processes and product characteristics.



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