

Welcome

Established in 1974, All Metal Services (AMS) became part of the Reliance Steel and Aluminium Group during 2014. AMS are now part of the largest metal stockholding group in the world with revenues exceeding 15 billion dollars.

AMS offer total material management solutions to leading OEMs and their subcontractors on a truly global basis.

II ALUMINIUMII STEELII TITANIUMII NICKEL ALLOYSII ALUMINIUM BRONZE





ABOUT ALL METAL SERVICES

With an annual turnover of over \$200m, our team of more than 300 staff operate from 8 strategically located sites, each situated to best serve the needs of our international customer base.

Sites in Belfast, Birmingham and Bristol are complemented by our global service centres in France, Malaysia and China. We also support customers throughout North America with consignment stock held, processed, and delivered by partner companies within the Reliance group.

Our customers have access to one of the widest and most comprehensive ranges of aerospace metals that includes:

- ALUMINIUM
- STEEL
- **II** TITANIUM
- NICKEL ALLOYS
- ALUMINIUM BRONZE

All of our service centres have state of the art processing equipment offering full or cut-tosize materials, with the further option of utilising our centrally located in-house machining and water-jet cutting facilities for your more complex items.

At All Metal Services, we believe in working in partnership with our customers to offer a uniquely tailored service that meets their specific demands. We have a proven and award winning track record of successfully managing the requirements of the world's leading OEMs and their multi-tiered supply chains whilst offering a cost of purchase that allows our customers to remain competitive in today's global marketplace.

OUR COMMITMENT TO EACH OF OUR CUSTOMERS IS THAT WE WILL STRIVE FOR EXCELLENCE IN ALL THAT WE DO.



4 mtr bed CNC machine



Customer specific packing



Plate cutting up to 600mm thick



Measuring performance



PROCESSES

PLATE CUTTING

All Metal Services is equipped to provide the Aerospace and Defence Industries with the latest technology in plate sawing and with 17 plate saws we can offer:

- Cut to size blanks with a tolerance of +/- 0.2mm
- 4 metre maximum length
- Cutting of up to 600mm thick plate
- Profiled shapes as well as standard rectangles
- All plate hard stamped with identification references
- Bespoke packaging requirements accommodated
- Nesting facility to maximise utilisation



We are able to offer cut to size aluminium, steel and titanium sheet up to 6mm thick.

- Stocking up to 6 mtr x 2 mtr size sheets
- Cut to size tolerance of +/- 0.1mm
- Shearing up to 6 mtr length
- Nesting facility to maximise utilisation
- Profiled and finished part size
- · Identification to match customer requirements
- Vacuum handling equipment



We can offer plastic coating for prime or cut to size sheet.

- 2 mtr maximum width
- Coating on one or both sides
- A variety of different grades of coating (e.g Nitto)

CNC MACHINING

We are equipped with CNC machining facilities and can offer the following:

- Surface machining up to 4 mtr x 2 mtr
- Full billet preparation
- Nesting facilities to reduce lead times and maximise material utilisation
- Drilling / Tapping / Counter-boring

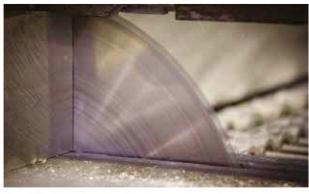


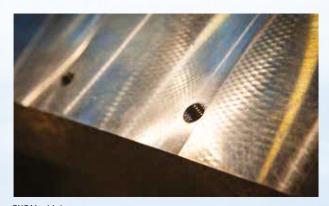
Plate Cutting



Cut to Size Sheet



Plastic Coating



CNC Machining



PROCESSES

BAR CUTTING

We operate automatic band saws enabling the supply of the following:

- Up to 400mm dia
- Cut to size billets
- Tolerance of +/- 0.5mm
- All billets hard stamped
- Deburring facilities
- Chamfering of bar ends

WATERJET CUTTING

- From Shim up to 200mm in thickness
- With machines up to 6m x 3m in size
- Virtually and material and any shape
- Can dramatically improve material utilisation over other methods of cutting

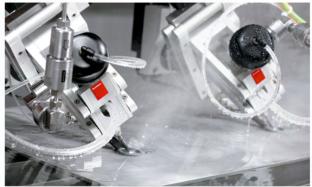
TUBE CUTTING

All Metal Services specialise in supplying drawn seamless tubes for fuel and hydraulic applications. Additionally we also supply extruded heavy wall tubing.

- · Precision cutting to length of thin wall tubes
- Sawing of extruded tubes
- Deburring
- Bore Cleaning
- Kitting
- Custom Packing
- Bar coded labelling
- Special inspection techniques including Eddy Current testing at source



Bar Cutting



Waterjet Cutting



Tube Cutting



Tube Cutting



APPROVALS

3RD PARTY APPROVALS

EN ISO 9001

AS9100

AS9120

AMS ARE ALSO APPROVED SUPPLIERS TO

Airbus

Aircelle

ASCO

BAE Systems

Bombardier

Dassault

Embraer

Eurocopter

FACC

Fokker Aerospace

GE Aviation

GKN Aerospace

Honeywell

Meggitt

Moog

Leonardo

Rolls Royce

Ruag

Spirit Aerosystems

Sonaca

UTC Aerospace Systems

KEY SUPPLIERS

STEELS

ATI

Bohler

Liberty Steel

Universal Stainless

Arconic

Carpenter Technology

DEW

Gloria Material Technology Corp

Outokumpu

ALUMINIUM

ALERIS

ARCONIC

CONSTELLIUM

AMAG

KAISER

UAC

KUMZ

ALRO

TITANIUM

TIMET

VSMP0

ATI

SUMITOMO

ARCONIC

YELLOW METALS

LE BRONZE INDUSTRIEL

EXPORT MARKETS

Argentina

Australia Austria

Belgium

Brazil

Bulgaria

Canada

Chile

PR China

Czech Republic

Denmark

Finland

France

Germany

Greece

Hungary

Indonesia

India

Israel

Italy

Japan

Republic of Korea

Malaysia

Mexico

7-1-1-1

Morocco

Netherlands

New Zealand

Norway

Poland

Portugal

Republic of Ireland

Romania
Singapore
South Africa
Spain
Switzerland
Sweden
Taiwan
Thailand
Tunisia
Turkey
UAE

USA





SPECIFICATIONS BY COUNTRY

	Specification	Alloy	Temper
USA	AMS 4025/4026/4027	6061	0/T451/T651
	AMS 4028/4029	2014	0/T65I
	AMS 4035/4037	2024	0/T35I
	AMS 4044/4045/4078	7075	0/T651/T7351
	AMS 4050/4201	7050	T7451/T7651
	AMS 4089/4090/4202	7475	T765I/T65I/T735I
	AMS 4101	2124	T851
	AMS 4203/4204/4205	7010	T735I/T765I/T745I
	AMS 4252	7150	T775I
	AMS QQ-A-250/4	2024	0/T35I/T85I
	AMS QQ-A-250/11	6061	0/F/T451/T651
	AMS QQ-A-250/12	7075	0/F/T651/T7351
	AMS QQ-A-250/24	7075	T765I
	AMS QQ-A-250/29	2124	T351/T851
	AMS QQ-A-250/30	2219	0/T35I/T37/T87/T85I
RANCE	AIR 9048.610/.620	2214	T451/T451(T651)/T651
10.11.02	AIR 9048.630	2024	T351
	AIR 9048.640	2618A	T351(T851)/T851
	AIR 9048.680/.690/.700/.710	7075	T65I/T735I/T735I/T765
	AIR 9048.720/.730	7475	T735I/T765I
	AIR 9048.740	7050	T745I
GERMANY	3.1354	2024	T351/T851
	3.1924	2618A	T65I
	3.3214	6061	T451/T651
	3.4144	7050	T745I
	3.4364	7075	T65I/T735I
	3.4384	7475	T735I
	3.4394	7010	T745I
JNITED KINGDOM	L93	2014A	T65I
SNITED KINGDOM	L95*	7075	T651
	L97	2024	T35I
	LII5	6082	T65I
	DTD 5010	2014A	T651
	DTD 5120	7010	T765I
	DTD 5120	7010	T745I
UROPE	EN 2123	2618A	T35I/T85I
COROFE	EN 2124	2214	T451/T651
	EN 2126	7075	W5I(T65I)
	EN 2419	2024	T35I
			T35I
	EN 2422 EN 2511	2124 7075	T735I
	EN 2512	7175	T7351
	EN 2684/2687	7010	W5I(T765I)/T745I
	EN 2805/4457	7475	T7651/T7351
	EN 3982/3983	7050	T7451/T7651
	EN 4213	6061	T651
	EN 4214	7010	T651
	EN 6000!	2024	T35I

Notes:

() normal end use temper; ! close tolerance flatness; HDT High Damage Tolerance; ¥ source must be Boeing approved

* similar to, but not direct equivalent of 7075; the T7451 temper was formerly known as T73651

AIMS 03-05-030 7050-t76511 is an alternative rib material



ALUMINIUM PLATE

SPECIFICATIONS BY COMPANY

ASN-A-300 7075 177 ASN-A-301 2024 173 ASN-A-301 2024 173 ASN-A-3050 7175 177 ASN-A-3355 2618A 18 AIMS 03-02-004/0200 2024 173 AIMS 03-02-004/0200 2024 173 AIMS 03-02-009 7475 177 AIMS 03-02-009 7475 177 AIMS 03-02-01/026 7150 176 AIMS 03-02-01/026 7150 176 AIMS 03-02-01/026 7150 176 AIMS 03-02-01/026 7150 176 AIMS 03-02-01/026 7150 177 AIMS 03-02-01/026 7150 177 AIMS 03-02-01/026 7150 177 AIMS 03-02-01/026 7150 177 AIMS 03-02-01/027 7055 177 AIMS 03-02-021 2618A 18 AIMS 03-02-021 2618A 18 AIMS 03-02-021 7010/7050 177 AIMS 03-02-021 7040 177 AIMS 03-02-021 7055 177 AIMS 03-02-025 7085 177 AIMS 03-02-031 7056 177 AIMS 03-02-032 7040 177 AIMS 03-02-032 12124 18 AIMS 03-02-032 12124 18 AIMS 03-02-032 12124 18 AIMS 03-02-033 7056 177 AIMS 03-02-032 12124 18 AIMS 03-02-033 7056 177 AIMS 03-02-031 12027 173 AIMS 03-02-032 12124 18 AIMS 03-02-031 12027 173 AIMS 03-02-032 12124 18 AIMS 03-02-031 12027 173 AIMS 03-02-0	Temper	
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DMS 2184 7475 T7 DMS 2233 7050 W! BOMBARDIER BAMS/CMS 516-001 A2MS 7050 T7 BAMS/CMS 516-002 A2MS 7475 T7 BAMS/CMS 516-003 A2MS 7050 T7 BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4: CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7		
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BAMS/CMS 516-001 A2MS 7050 T7 BAMS/CMS 516-002 A2MS 7475 T7 BAMS/CMS 516-003 A2MS 7050 T7 BAMS/CMS 516-006 A2MS 7050 T7 BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	7351	
BAMS/CMS 516-002 A2MS 7475 T7 BAMS/CMS 516-003 A2MS 7050 T7 BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	V5I(T765I)(T745I)	
BAMS/CMS 516-003 A2MS 7050 T7 BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-021 A2MS 7055 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	7651	
BAMS/CMS 516-006 A2MS 7150 T7 BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	7351	
BAMS/CMS 516-021 A2MS 7040 T7 BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	7451	
BAMS/CMS 516-017 A2MS 7055 T7 CR 1.1.0.31 2214 T4. CR 1.1.0.36 2024 T3 CR 1.1.0.42 2618A T3 CR 1.1.0.76 7075 T6. CR 1.1.0.87 7010 T7 CR 1.1.0.98 7050 T7	7751	
DASSAULT CR I.I.0.3I 22I4 T4. CR I.I.0.36 2024 T3 CR I.I.0.42 26I8A T3 CR I.I.0.76 7075 T6. CR I.I.0.87 7010 T7. CR I.I.0.98 7050 T7.	7451	
CR I.I.0.36 2024 T3 CR I.I.0.42 2618A T3 CR I.I.0.76 7075 T6. CR I.I.0.87 7010 T7 CR I.I.0.98 7050 T7	7751	
CR I.I.0.36 2024 T3 CR I.I.0.42 2618A T3 CR I.I.0.76 7075 T6. CR I.I.0.87 7010 T7 CR I.I.0.98 7050 T7	451/T651	
CR I.I.0.42 2618A T3 CR I.I.0.76 7075 T6. CR I.I.0.87 7010 T7 CR I.I.0.98 7050 T7	351	
CR I.I.0.76 7075 T6. CR I.I.0.87 7010 T7. CR I.I.0.98 7050 T7.	351/T651	
CR 1.1.0.87 7010 T7- CR 1.1.0.98 7050 T7-	651/T7351	
CR 1.1.0.98 7050 T7	7451	
	7451	
	7351	
	7451	
	7651	
	745I 651	

Notes:

() normal end use temper; ! close tolerance flatness; HDT High Damage Tolerance;

¥ source must be Boeing approved * similar to, but not direct equivalent of 7075; the T7451 temper was formerly known as T73651

AIMS 03-05-030 7050-T76511 is an alternative rib material



ALUMINIUM SHEET

SPECIFICATIONS BY COUNTRY

	Specification	Alloy	Temper
USA	AMS QQ-A-250/2	3003	O/HI4
	AMS QQ-A-250/3	2014 clad	O/ T4/ T6
	AMS QQ-A-250/4	2024	O/T3
	AMS QQ-A-250/5	2024 clad	O/T3
	AMS QQ-A-250/II	6061	O/ T4/ T6
	AMS QQ-A-250/12	7075	O/T6
	AMS QQ-A-250/I3	7075 clad	O/T6
	AMS QQ-A-250/24	7075	T76
	AMS QQ-A-250/25	7075	T76
		clad with 7072	1 2 2 2
	AMS QQ-A-250/26	7075 clad with 7011	T76
	AMS QQ-A-250/30	2219	O(T62)/T31 (T81)/T37(T87)
	AMS 4085	7475	T761
	AMS 4096	2219 clad	0
	AMS 4100	7475 clad	T76I
	AMS 4347	6013	T4
FRANCE	AIR 9048.010/.030/	2014	F(T42)/(T62)/
	AIR 9048.020/.040/.050	2014	T4/T6/T45I
	AIR 9048.060/.080/	2014 clad	F(T42)/F(T62)/
	AIR 9048.070/.090	2014 clad	T4/T6
	AIR 9048.100/.110/.120	2024	F(T42)/T3/T351
	AIR 9048.130/.140	2024 clad	F(T42)/T3
	AIR 9048.150	2618A	H28(T62)
	AIR 9048.170	2618A clad	H28(T62)
	AIR 9048.190/.200	5086	0/H111/H22/H32
	AIR 9048.210/.220/	6061	0/H111(T42)/T4/
	AIR 9048.230/.240	6061	0/H111(T62)/T6
	AIR 9048.260/.270	7075	T6/T76
	AIR 9048.280	7075 clad	T6
	AIR 9048.290	7475	T76
GERMANY	3.1254	2014A	T4/T6
	3.1354	2024	0(T42)/T3
	3.1364	2024 clad	0(T42)/T3
	3.3214	6061	0(T62)/T6
	3.4364	7075	T6 "
	3.4374	7075 clad	0(T62)/T6
	3.4377	7475 clad	T76
UNITED KINGDOM	L16/17	1200	H4/0
	L59/60/61	3103	H6/H2/0
	L80/81	5251	0/H6
	L88	7075 clad	T6
	L109/110	2024 clad	T3/F(T42)
	LII3	6082	T4/T6
	L156/157/158*/159*	2014A	T4/T6/T4/T6
	L163/164/165	2014A clad	T3/F(T42)/ T4/T6
	L166*/167*	2014A clad	F(T42)/ T4/T6
	DTD5070	2618A clad	T6



ALUMINIUM SHEET

SPECIFICATIONS BY COMPANY

	Specification	Alloy	Temper	
AIRBUS	ASN-A-3001/3046/3047	6061	O/T4/T6	
	ASN-A-3010/3045/3362/3373	2024	T3/T42/T351/T3	
	ASN-A-3012/3042/3374	2024 clad	T3/T42/T3	
	ASN-A-3043	2618A	T62	
	ASN-A-3044	5056	O/HIII	
	ASN-A-3051	7075 clad	T6	
	ASN-A-3397	7475 spf	0	
	ASN-A-3399		0	
	ASIN-A-3399 AIMS 03-04-009/013A/022AI	5083 spf	T351	
		2024 clad cmq		
	AIMS 03-04-010/012A/023A7	2024 clad	O/F(T42)	
	0352/037a2	2024 clad	O/ F(T42)	
	AIMS 03-04-011A/014/031A'	2024 clad	T3	
	AIMS 03-04-016A	5083 spf	F/O	
	AIMS 03-04-019A	7475 spf	T4(T762)	
	AIMS 03-04-022	2524	T351	
	AIMS 03-04-0242	2024 clad	T4	
	AIMS 03-04-027A	6056	T78	
	AIMS 03-04-029A	7475 clad cmq	T761	
	AIMS 03-04-030A	7475 clad	0(T762)	
	AIMS 03-04-033	7449 cmq	T7651	
	AIMS 03-04-034A	6013/6056 clad cmq	T4(T62)	
	AIMS 03-04-036	2618A clad	H28(T62)	
	AIMS 03-04-038	2024	T3	
	AIMS 03-04-040AI	6013/6156	T4(T62)	
	AIMS 03-04-04IA	2219 cmq	T3I(T8I)	
	AIMS 03-04-042	6061	0(T62)/ T4(T62)	
	AIMS 03-04-059	7475	T76I	
	AIMS 03-04-047	6063	T6	
	BAEM 0003/0004	2024 clad	T3/T4	
	BAEM 0120/ABM2-6027	6061	T4(T42)	
	BAEM 0133/ABM2-6028	6061	T4(T62)	
	BAEM 0155/0196/0197	2014A clad	F(T62)/F(T42)/00(T42)(T62)	
	BAEM 0163/0164	2024 clad	T3/T4	
		2014A		
	BAEM 0194/0195/1005/1006		F(T42)/00(T42)(T62)/T4/T6	
	BAEM 1007/ABM1-7018*	2014A clad	T4	
	BAEM 1008/ABM1-7019*	2014A clad	T6	
	BAEM 1009/ABM1-7067*	2024 clad	T3	
	BAEM 1010/ABM1-7068*	2024 clad	0(T42)	
	BAEM 1020/ABM1-6013*	2014A	T4	
	BAEM 1021/ABM1-6014*	2014A	T6	
	BAEM 1029/ABM1-6015	2024	T3	
	BAEM 4001/ABM3-7045	7050 clad	T76	
	BAEM 4049	2618A clad	F(T62)	
BOEING	BMS 7-302	7075 bare/clad	O high formability	
	BMS 7-305	2024 clad	O high formability	
	DMS 2234	7475 clad	0(T6I)(T76I)	
DASSAULT	CR 1.1.0.7	2024	F(T42)/T3	
	CR 1.1.0.8	2024 clad	F(T42)/ T3	
	CR 1.1.0.13	2014	F(T42)/ T4(T4/T6)	
	CR 1.1.0.18	5754	O/HIII	
	CR 1.1.0.26	2017A	F(T42)/T3	
	CR 1.1.0.48/60	2014 clad	T6/F(T42)/ T4(T4/ T6)	
	CR 1.1.0.56	5086	O/HIII	
MDDAED	CR 1.1.0.61	6061	Q(T42)/ T4/ T6	
MBRAER	MEP 02-012	7475	T76	
	MEP 02-015	2024 clad	O/T3/T4 high formability	
	MEP 02-019	2524 clad	O typeI/T3 type2	
	MEP 02-028	2024 clad	F high formability	

Notes:

() normal end use temper; ! close tolerance flatness; HDT High Damage Tolerance; \$\times\$ source must be Boeing approved

* similar to, but not direct equivalent of 7075; the T7451 temper was formerly known as T73651

AIMS 03-05-030 7050-t765 | I is an alternative rib material



ALUMINIUM BAR & TUBE

ALUMINIUM BAR INTERNATIONAL DESIGNATION

	UK	US FEDERAL AMS-QQ-A	AMS	ASN-A	Product Forms
2014A-T4511	LI02	200/2>			Round, Flat
6082-T6 T6511	LIII				Round, Flat
6082 T4				3097	
7075-T73 T735II	LI60	200/11	4167		Round, Flat
2014A-T6 T6511	LI68				Round, Flat
2024-T3511	ABS5055A				Round, Flat
2618A-T8511				3357	Round
2618A-T6511	DTD5014A MSRR8018				Round, Flat
2024 -T3 T3511 T8511		200/3	4152	3351	Round, Flat
2024-T35I		225/6	4120	3058	Round, Flat
2026/7-T3511	AIMS03-05-018				Flat
5086-HIII				3015/3018	Round
6061-T6/T6511		200/8		3277	Round, Flat
6061-T651		225/8	4117		Round, Flat
6061-T4			4116/4161		Round, Flat
7075-T6/T6511		200/11		3055	Round, Flat
7075-O/T651/T7351		225/9	4124		Round, Flat
7050-T74511			4342		Round, Flat
7050-T74511	ABS5239A				Round, Flat
7175-T73511				3388	Round
7449-T79511	AIMS03-05-015				Flat

ALUMINIUM TUBE INTERNATIONAL DESIGNATION

	BS	AIRBUS (ABM) or BS BAe (BACM) or Hawker Siddeley (S)	US FEDERAL AMS-WW-T	AMS
525I - O	L56			
2014A-T6	L63			
2014A-T4	L105	S07-1011/1012		
6082 - T4/T6	LII4			
6061-T6		ABM2 - 3025/3026 SLI7	700/6 AMS-T-7081	4083
6061-T4		ABM2 - 3023		
606I - O		BACM171	700/6	
2024 - O/T3/T4		ABM1-3008/3009	700/3	4088
5052 - O			700/4	4071
7075 - T6			700/7	
3003 - HI4			700/2	







Type	Generic	BS	US	German	Euro	Related
	Name	Spec.	Spec.	Spec.	Spec.	Spec.
						ABS-5455, ABS
Stainless	15/5PH VAR/ESR		AMS 5659	W1.4545	Z7CNU15.05	5750
Stainless	17/4PH AIR		AMS 5643	W1.4542	Z7CNU17.04	MSRR6601
Stainless	17/4PH VAR/ESR		AMS 5622	W1.4548	Z7CNU17.04	William Cool
Stainless	13/8Mo		AMS 5629	W1.4534	27011017101	ABS-5442 A / C
Stainless	\$80	S80	71113 3023	W1.4044	Z15CN17.03	431
Stainless	S130	S130	AMS 5646	W1.4546	Z6CNNb18.10	MSRR6522/3/4/5
Stainless	S143 TO S145	S143 TO S145	AMS 5719	***************************************	200111010.10	MSRR6647, FV520B
Stainless	JETHETE M152	JETHETE M152		W1.4939	Z12CNDV12	MSRR6502/3
Stainless	440C	JETTIETE WIESZ	AMS 5618/5630	W1.4125	Z100CD17	UNS44004
Stainless	304		AMS 5639	VV 1.4123	21000517	014344004
Stainless	304L		AMS 5647			
Stainless	303		AMS 5638	W1.4305	EZ6NCT25	MIL-S-7720
Stainless	303 Se		AMS 5738	W1.4305	Z8CND17.04	14112 3 7720
Stainless	321	S129	AMS 5645	VV1.4303	Z6CND17.04	
Stainless	A286	3129	AMS 5731/2,5895	W1.4943		EN2303
Stainless	Z8CND17.04		AIVIS 3731/2,3033	W1.4418		LIVESUS
Stainless	CUSTOM 455		AMS 5617	VV1.4410		
Stainless	CUSTOM 465		AMS 5936			ABS-5268, MLX17
Stainless	NITRONIC 60		AMS 5848			AD3-3208, IVILAT7
Stainless	BG-42		AMS 5749			
Jian ness	BG-42		AIVI3 3743			
Alloy	4130		AMS 6348/70			MIL-S-5626
Alloy	4140		AMS 6382		40CD4	MIL-S-5000,BMS 7-28
Alloy	4340 AIRMELT	S149	AMS 6409/15			
Alloy	4340 VAR		AMS 6414			BMS 7-26, 300M
Alloy	4340Mod	S155	AMS 6417/19 6257			BMS 7-122
Alloy	4330Mod		AMS 6411			
Alloy	9310 AIRMELT		AMS 6260			
Alloy	9310 VAR		AMS 6265			
Alloy	8620		AMS 6274			
Alloy	8740	S147	AMS 6322			
Alloy	30NCD16	5147	, 413 0322	W1.6747	30NCD16	
Alloy	35NCD16			., 1.0, 4,	35NCD16	MAT 135
Alloy	32CDV13		AMS 6481	W1.7765	32CDV13	IVIAT 155
Alloy	S97	S97	AIVIS 0461	VV1.7703	32CDV13	S140/153/154
Alloy	S154	\$154				MSRR6043 S140/153/154 MSRR6043
Alloy	S98/S99	S98/S99		W1.6745		
Alloy	S106	\$106				MSRR6001/2/3 MAT 123
Alloy	S132	S132		W1.8523	40CDV12	MSRR6011/12 MAT122
Alloy	S156	S156		W1.6722/3	16NCD17	MSRR6009/10/55
Alloy	S157	S157		W1.6657	16NCD13	
Alloy	S162	S162	AMS 6512	W1.6359		DTD 5212, MAT 102

Our stock profile is constantly evolving so if you cannot identify the grade you require, please call us $01675\ 430\ 307$



STEEL SHEET, PLATE & TUBE

STEEL SHEET & PLATE

Туре	BS Spec.	US Spec.	German Spec.	Similar Gen. Eng. Spec.	Related Specs.
Carbon	S510		1.1151	EN3A/CR4/MILD STEEL	MSRR 6057
Carbon	S511			EN2A deep draw	MSRR 6058
Carbon	S514/515		1.1169	EN14A	
Stainless	S527	AMS 5512	1.4546	Type347SI7	MSRR 6523 / EN3488
Stainless	S532/533				MSRR 6628 / BACM II
Alloy	S534/5	AMS 6350	1.7214	4130	
Stainless		AMS 5510	1.4541/44	Type 321	ASNA3106
Stainless		AMS 5512	1.5446	Type 347	MIL-S-6721
Stainless		AMS 5513	1.4301	Type 304	FED-QQ-S-766
Stainless		AMS 5517	1.4310	Type 301 1/4 H	MIL-S-5059
Stainless		AMS 5518	1.4310	Type 301 1/2H	MIL-S-5059
Stainless		AMS 5519	1.4310	Type 301 FH	MIL-S-5059
Stainless		AMS 5525			A286
Stainless		AMS 5528		17-7 PH	MIL-S-25043 / EN2540
Stainless		AMS 5604	1.4548	17-4 PH	
Stainless		AMS 5862	1.4542	15-5 PH	
Stainless				Jethete	MSRR 6504
Alloy		AMS 6345	1.7216	AISI 4130 norm.	MIL-S-18729
Alloy		AMS 6350/I	1.7214	AISI 4130 ann.	MIL-S-18729
Alloy		AMS 6359		AISI4340	
Alloy				FV607	MSRR 6514

STEEL TUBE

Туре	BS Spec.	US Spec.	European Spec.	Similar Gen. Eng. Spec.	Related Specs.
Carbon	T45		TU52B E355		E355/Tu52B
Alloy	T60	AMS6371		4130	MIL-T-6736
Carbon	T64				
Stainless	T66	AMS5556	ZIOCNNb 18.11	Type 347	EN3680
Stainless	T68		ZIOCNNb 18.11	Type 347	
Stainless	T72	AMS5556	ZIOCNNb 18.11	Type 347	MSRR6524/ EN3680
Stainless		AMS 5561		21/06/2009	BMS 7-185
Stainless		AMS 5565		Type 304	MIL-T-8504/6
Stainless			ZIOCNTI8.iI	Type 321	1.4541
Alloy			I5CDV6		1.7734
Alloy			25CD4S		1.7214
Alloy		AISI4I30			MIL-T-6736B / AMS637I







TITANIUM PRODUCTS

	UK	US	German	ABS	Code	AIMS	Other
Grade	1						
Sheet	TAI		3.72024				
Grade	2						
(99.6%)							
Sheet	TA2	AMS4902	3.7034	5142	А	03-18-002	ASN-A 3201
		AMS-T-9046 CP 3					T40
		MIL-T-9046 CP 3					
Plate	N/A	AMS4902					
Bar	TA3	N/A		5773	А	03-18-013	
Tube	N/A	AMS4941,4942		5012	А	03-23-001	
Grade	4						
(99.6%)							
Sheet	TA6	AMS4901	3.7064	5142	В	03-18-015	T60
		AMS-T-9046 CP I					
		MIL-T-9046 CP I					
Plate	N/A	AMS4901	3.7064				
Bar	TA7	AMS492I	3.7064				
Grade	5						
(6 A I/4 V)							
Sheet	TA10,59	AMS4911	3.7164	5326	А	03-18-003	TA6V
				5326	С	03-18-004	
Plate	2TA56	AMS4911	3.7164	5125	А	03-18-001	ASN-A 3304
		AMS-T-9046 ABI		5125	В	03-18-006	
		MIL-T-9046 ABI		5125	С	03-18-007	
Bar	3TA11,12	AMS4928,65,67	3.7164	5453	А	03-18-010	BS7252
		AMS6931					ISO5832
		AMS-T-9047					ASN-A-3307
		MIL-T-9047G					
Grade	9						
(3AI/2.5V)							
Tube	N/A	AMS4944,45		5004		03-15-001	





YELLOW METALS

Туре	UK Spec.	US Spec.	Related Spec.	Product Forms
Silicon Aluminium Bronze		AMS 4631/4	QQ-C-465	ROUND
CuAl7Si2			C64200	
Aluminium Bronze	B23 (DTD197A)		CAI04	round, flat
CuAII0Ni5Fe4			2.0966	HEXAGON
Nickel Aluminium Bronze	NES 833 (DGS 1043)	AMS 4590 AMS 4640	QQ-C-465 C63000	VARIOUS
Silicon Aluminium Bronze	NES 834 (DGS 1044)		CAI07	ROUND
CuAl6Si2Fe				
Phosphor Bronze	NES838	AMS 4625	PB102	VARIOUS
CuSn5			C51000	
Phospor Bronze	DTD265A		PB104	VARIOUS
CuSn8P			C52100	
Brass (cartridge)	CZI06		C26000	FLAT
CuZn30			2.0265	
Brass (leaded)	CZI2I		C35300	ROUND, FLAT
CuZn39Pb3			2.0321	HEXAGON
Brass (free cutting)	CZI24	AMS 4610	C36000	ROUND
CuZn36Pb3			2.0375	HEXAGON
Brass	CZI3I (DTD627)			ROUND
CuZn35Pb2				
Brass (naval)	CZII2		C46400	ROUND
CuZn38Snl			2.053	
Brass (high tensile)	CZII5			ROUND
CuZn40MnlPblFeSn				
Brass (leaded Muntz metal)	CZI37		C36500	ROUND
CuZn39Pb0.5			2.0371	
Brass (yellow)	CZI08		C27400	ROUND
CuZn37				
Tungum	DTD5019		C17200	TUBE
CuZnBAllNilSil	CZI27			
Copper Beryllium		AMS4533		ROUND
CuBe2	1			



NICKEL ALLOYS / MISC. PRODUCTS

Туре	BS Spec.	US Spec. (AMS)	German Spec.	French Spec.	Related Spec. R.R. Spec. MSRR	Gen. Eng. Spec.	Comments
Stainless	DTD 189 A						Locking Wire
Carbon	S201						Spring Steel Wire
Magnetic							DTD 5092/5102
Soft Iron							
Nickel Alloy	HR206	5872		NCK20D	7036	C263	
Nickel Alloy		5886	2.465	NCK20D	7035		C263
Nickel Alloy		5666	2.4856	NC22DNb			INCONEL 625
Nickel Alloy		5662	2.4668	NCI9FeNb	7115		INCONEL718
Nickel Alloy		5663	2.4668	NCI9FeNb			INCONEL 718HT
Nickel Alloy	HR5		2.463	NC20T	7004		NIMONIC 75
Nickel Alloy	HRI/601		2.4631	NC20TA	7011/7013		NIMONIC 80A



LOCATIONS

UNITED KINGDOM SITES



BIRMINGHAM

HEAD OFFICE
UNIT 5, MIDPOINT PARK
MINWORTH
SUTTON COLDFIELD
B76 I AF
FACILITY AREA: 13987m2 / 130'000Sqr ft

TEL +44 (0)1675 430307 E-MAIL exportsales@allmetal.co.uk

BRISTOL

AIRBUS / GKN SERVICE CENTRE
UNIT RI, CABOT PARK
ST ANDREWS ROAD
AVONMOUTH
BRISTOL
BS I I 0YW
FACILITY AREA: 2323m² / 25,000ft²

BELFAST

A220 SERVICE CENTRE, UNIT D, SYDENHAM BUSINESS PARK BELFAST BT3 9LE FACILITY AREA: 3066m² / 33,000ft²



INTERNATIONAL SITES



FRANCE

ZA DU GABARDAN 40240 LOSSE FRANCE FACILITY AREA: 3000m² / 32,300ft²

TEL +33 (0)558 936800 E-MAIL francesales@allmetal.co.uk

CHINA

12TH FENG CHENG ROAD SHAANXI XI'AN EXPORT PROCESSING ZONE XI'AN 710016 CHINA FACILITY AREA: 4000m² / 43,000ft²

TEL +86 (0)29 8612 5300 E-MAIL chinasales@allmetal.co.uk

MALAYSIA

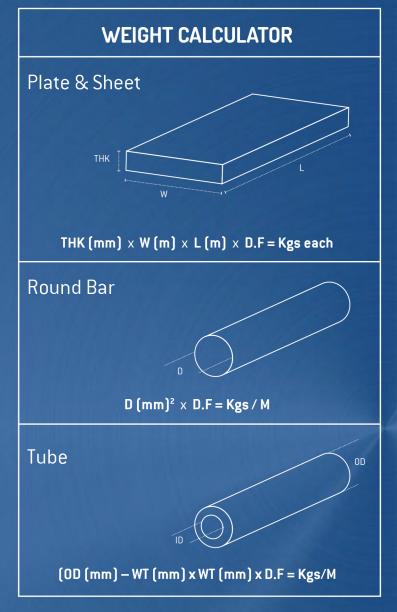
NO. 2A
JALAN HAKIM
HICOM-GLENMARIE INDUSTRIAL PARK
40150 SHAH ALAM
SELANGOR DARUL EHSAN
MALAYSIA
FACILITY AREA: 3355m² / 36,100ft²

TEL +60 378 035 643
E-MAIL malaysiasales@allmetal.co.uk





USEFUL INFO



DENSITY FACTOR (D.F)			
Aluminium	Stainless Steel	Titanium	
2.82	7.90	4.51	
0.00219	0.0061	0.0035	
0.0087	0.0240	0.0140	

CONVERSION CHART*

inches	mm	
0	0.00	
1/8	3.18	
1/4	6.35	
3/8	9.53	
1/2	12.70	
5/8	15.88	
3/4	19.05	
7/8	22.23	
1	25.40	
1 ¹ /8	28.58	
1 1/4	31.75	
1 ³ /8	34.93	
1 1/2	38.10	
1 ⁵ /8	41.28	
1 ³ / ₄	44.45	
1 ⁷ /8	47.63	
2	50.80	

1 2 2 2	
inches	mm
2 1/8	53.98
2 1/4	57.15
2 3/8	60.33
2 1/2	63.50
2 5/8	66.68
2 3/4	69.85
2 ⁷ / ₈	73.03
3	76.20
3 1/8	79.38
3 ¹ / ₄ 3 ³ / ₈	82.55
3 3/8	85.73
3 1/2	88.90
3 5/8	92.08
3 3/4	95.25
3 7/8	98.43
4	101.60
4 1/8	104.77

inches	mm
4 1/4	107.95
4 ³ / ₈	111.12
4 1/2	114.30
4 ⁵ / ₈	117.47
4 3/4	120.65
4 ⁷ /8	123.82
5	127.00
5 ¹ / ₈	130.17
5 1/4	133.35
5 ³ / ₈	136.52
5 1/2	139.70
5 ⁵ / ₈	142.87
5 3/4	146.05
5 7/8	149.22
6	152.40
6 1/8	155.57
6 1/4	158.75

inches	mm
6 ³ / ₈	161.92
6 1/2	165.10
6 ⁵ / ₈	168.27
6 3/4	171.45
6 7/8	174.62
7	177.80
7 ¹ /8	180.97
7 1/4	184.15
7 3/8	187.32
7 1/2	190.50
7 5/8	193.67
7 3/4	196.85
7 7/8	200.02
8	203.20
8 1/8	206.37
8 1/4	209.55
8 3/8	212.72

inches	mm
8 1/2	215.90
8 5/8	219.07
8 3/4	222.25
8 7/8	225.42
9	228.60
9 1/8	231.77
9 1/4	234.95
9 3/8	238.12
9 1/2	241.30
9 5/8	244.47
9 3/4	247.65
9 7/8	250.82
10	254.00
1-5-6	

^{*}Errors and omissions excepted (E&OE)

Sites in Belfast, Birmingham and Bristol are complemented by our global service centres in France, Malaysia and China, with customers throughout North America supported by our strategic stock, located in Kansas and California.

UK



CALIFORNIA KANSAS FRANCE XI'AN, CHINA MALAYSIA





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