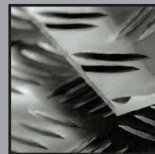
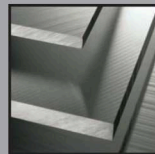
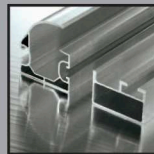
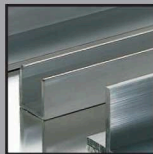


## STOCK PROGRAMME & SERVICES



ALUMINIUM | BRASS | COPPER | BRONZE | GREY CAST IRON | PLASTICS





Head Office - Location I



Location II

# STEP BY STEP TOGETHER INTO THE FUTURE!

Welcome to RASCH METALLE!

Please keep this catalogue in your hand and take some time to get to know our company!

*On April 1, 1973, my first stock programme was distributed among our clients, consisting of only twelve pages and few dimensions. From then on, two employees and I started our business activity as a wholesaler for non-ferrous metals with the greatest heartbeat you can ever imagine. Most of our competitors presumed we would fail at once.*

*In fact, quite the contrary happened. Through the years we were growing continuously however with a calculable risk. Today, more than 36 years later, our company is well known and recognised with the reputation of being a serious partner; in Germany as well as in Europe, as much for our clients as for our suppliers.*

*Certain principles such as punctuality, honesty, straightness, reliability and trust still represent our company's values. This is the reason why the old precept «IT'S THE SPOKEN WORD THAT COUNTS!» still represents our core quality of doing business today.*

*The great commitment of my two daughters, Claudia and Cordula, and their decision to take our company into a bright future, fulfils me with pride. I am convinced that our family owned company will continue as successful as it did in the past. Gildo Rasch*



«TO STAND STILL IS TO GO BACKWARDS!»

*As you can see on the photo, we do not only LOOK but also MOVE forward and in the meantime we are proud to look up to our father.*

*There is nothing left for us to add besides the following:*

*We both hope und wish that our family will create our company's future as long as possible all together. We are sure that our father will stand by our side and keep on providing us with his precious advice and support as he always already did in the past.*

*From our point of view, our father's former vision «WITHOUT PARTNERSHIP NO SUCCESS» is still as prevalent as in the past. It represents the link which unites our shared past with our shared future. Claudia & Cordula Rasch*

«THE FUTURE BEGINS TODAY!»

Your Management  
**RASCH METALLE**  
Claudia Rasch, Gildo Rasch, Cordula Rasch (LTR)



## PLEASE NOTE!

Our stock list is structured according to our customer service teams:

### OUR PRODUCTS

Please find the complete overview of our wide assortment as well as of some technical information!

### OUR SERVICES

Discover our broad additional services! We offer product-related processing through to prefabricated components.

### MATERIAL CHAPTERS

Inform yourself about our semi-finished products!

We supply you with bars/tubes/profiles as well as sheets/plates of aluminium, brass, copper, bronze, grey cast iron and industrial plastics.

We can also provide customised profiles according to drawing.



All data based on the valid standards on printing date (11/2009). The listed weights per meter or sheet are reference values (basis: specific weights). Deviations possible within permissible tolerances.

All contents are provided after careful examination and are based on the current general trading conditions (please refer to our homepage: [www.rasch-metalle.com](http://www.rasch-metalle.com)). Mistakes and intermediate sales reserved.

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# BARS / TUBES / PROFILES

## ALUMINIUM

EN AW-	EN-Alloy
--------	----------

### ● Round bars, drawn \_\_\_\_\_ 23

2007/2030	AlCu4PbMgMn
2011	AlCu6BiPb
2017A	AlCu4MgSi(A)
6061	AlMg1SiCu
6082	AlSi1MgMn
7075	AlZn5,5MgCu

### ● Round bars, extruded \_\_\_\_\_ 24

2007/2030	AlCu4PbMgMn
2011	AlCu6BiPb
2017A	AlCu4MgSi(A)
5083	AlMg4,5Mn0,7
5754	AlMg4
6060	AlMgSi
6061	AlMg1SiCu
6082	AlSi1MgMn
7022	AlZn5Mg3Cu
7075	AlZn5,5MgCu

### ● Round bars, casted\* \_\_\_\_\_ 26

2007	AlCu4PbMgMn
2017A	AlCu4MgSi(A)
5083	AlMg4,5Mn0,7
6082	AlSi1MgMn

### ■ Flat bars, extruded \_\_\_\_\_ 28

2007/2030	AlCu4PbMgMn
2017A	AlCu4MgSi(A)
6060	AlMgSi
6082	AlSi1MgMn

### ■ Square bars, extruded \_\_\_\_\_ 32

2007/2030	AlCu4PbMgMn
2017A	AlCu4MgSi(A)
5754	AlMg3
6060	AlMgSi
6082	AlSi1MgMn

### ■ Square bars, drawn \_\_\_\_\_ 33

2007/2030	AlCu4PbMgMn
2011	AlCu6BiPb
2017A	AlCu4MgSi(A)
6061	AlMg1SiCu
6082	AlSi1MgMn

## ALUMINIUM

EN AW-	EN-Alloy
--------	----------

### ● Hexagonal bars, drawn \_\_\_\_\_ 33

2007/2030	AlCu4PbMgMn
2017A	AlCu4MgSi(A)
6082	AlSi1MgMn

### ○ Round tubes, extruded \_\_\_\_\_ 34

2007/2030	AlCu4PbMgMn
6005A	AlSiMg(A)
6060	AlMgSi
6082	AlSi1MgMn

### ■ Rectangular tubes, extruded \_\_\_\_\_ 37

6060	AlMgSi
------	--------

### └ Angles, extruded \_\_\_\_\_ 38

6060	AlMgSi
------	--------

### └ Tee sections, extruded \_\_\_\_\_ 39

6060	AlMgSi
------	--------

### └ Channels, extruded \_\_\_\_\_ 40

6060	AlMgSi
------	--------

## BRASS

EN-No.	EN-Alloy
--------	----------

### ● Round bars, drawn/extruded/casted \_\_\_\_\_ 42

CW614N	CuZn39Pb3
CW713R	CuZn37Mn3Al2PbSi

### ■ Flat bars, drawn/extruded \_\_\_\_\_ 43

CW614N	CuZn39Pb3
--------	-----------

### ■ Square bars, drawn/extruded \_\_\_\_\_ 44

CW614N	CuZn39Pb3
--------	-----------

### ● Hexagonal bars, drawn/extruded \_\_\_\_\_ 45

CW614N	CuZn39Pb3
--------	-----------

## BRASS

EN-No.	EN-Alloy
--------	----------

### ○ Round tubes, drawn/extruded \_\_\_\_\_ 46

CW508L	CuZn37
CW614N	CuZn39Pb3

### └ Angles, drawn/extruded \_\_\_\_\_ 47

CW617N	CuZn40Pb2
--------	-----------

## COPPER

PER

EN-No.	EN-Alloy
--------	----------

### ● Round bars, drawn/extruded/casted \_\_\_\_\_ 48

CW004A	Cu-ETP
--------	--------

### ■ Flat bars, drawn/extruded \_\_\_\_\_ 49

CW004A	Cu-ETP
--------	--------

### ■ Square bars, drawn/extruded \_\_\_\_\_ 50

CW004A	Cu-ETP
--------	--------

### ○ Round tubes, drawn \_\_\_\_\_ 51

CW024A	Cu-DHP
--------	--------

## BRONZE

EN-No.	EN-Alloy
--------	----------

### ● Round bars, extruded/casted \_\_\_\_\_ 52

CW307G	CuAl10Ni5Fe4
CW453K	CuSn8
CC483K	CuSn12
CC493K	CuSn7Zn4Pb7

### ■ Flat bars, casted \_\_\_\_\_ 53

CC483K	CuSn12
CC493K	CuSn7Zn4Pb7

### ■ Square bars, casted \_\_\_\_\_ 53

CC483K	CuSn12
CC493K	CuSn7Zn4Pb7

## BRONZE

EN-No.	EN-Alloy
--------	----------

### ○ Round tubes, casted \_\_\_\_\_ 54

CC483K	CuSn12
CC493K	CuSn7Zn4Pb7

## GREY CAST IRON

EN-No.	EN-Alloy
--------	----------

### ● Round bars, casted \_\_\_\_\_ 72

JL1040	GJL-250
JS1030	GJS-400-15

### ■ Flat bars, casted \_\_\_\_\_ 73

JL1040	GJL-250
--------	---------

### ■ Square bars, casted \_\_\_\_\_ 73

JL1040	GJL-250
--------	---------

## INDUSTRIAL PLASTICS

Mat. Code	Material
-----------	----------

### ● Round bars, extruded/planed/casted/glass fibre-reinforced \_\_\_\_\_ 74

PA6	Polyamide 6
PA66	Polyamide 66
POM-C	Polyoxymethylene
PE1000	Polyethylene
PTFE	Polytetrafluorethylene
PVC	Polyvinylchloride

## SPECIAL PROFILES

specific profiles produced from sketch/sample \_\_\_\_\_ 56



# SHEETS / PLATES

## ALUMINIUM

EN AW-	EN-Alloy
--------	----------

**Sheets, cold-rolled** \_\_\_\_\_ **60**

<b>1050A</b>	Al99,5
<b>2017A</b>	AlCu4MgSi(A)
<b>5083</b>	AlMg4,5Mn0,7
<b>5754</b>	AlMg3
<b>6082</b>	AlSi1MgMn

**Sheets, cold-rolled, anodised, coated** \_\_\_\_\_ **61**

<b>5005A</b>	AlMg1
--------------	-------

**Tread plates, hot-rolled** \_\_\_\_\_ **61**

<b>5754</b>	AlMg3
-------------	-------

**Plates, hot-rolled** \_\_\_\_\_ **62**

<b>2017A</b>	AlCu4MgSi(A)
<b>5083</b>	AlMg4,5Mn0,7
<b>5754</b>	AlMg3
<b>6082</b>	AlSi1MgMn
<b>7075</b>	AlZn5,5MgCu

**Plates, casted/rolled, milled, with protection film\*** \_\_\_\_\_ **63**

<b>5083</b>	AlMg4,5Mn0,7
<b>7019</b>	AlZn4Mg2Mn

**Plates, casted, cut all sides\*** \_\_\_\_\_ **63**

<b>5083</b>	AlMg4,5Mn0,7
-------------	--------------

## RASCH-PLAN

AA-5083 Precision plates, casted, milled both sides, with protection film \_\_\_\_\_ **64**

## UNIDAL®

AA-7019 High-strength precision plates, rolled, milled both sides, with protection film \_\_\_\_\_ **65**

## BRASS

EN-No.	EN-Alloy
--------	----------

**Sheets, cold rolled** \_\_\_\_\_ **68**

<b>CW508L</b>	CW612N
<b>CW612N</b>	CuZn39Pb2

**Plates, hot-rolled** \_\_\_\_\_ **69**

<b>CW612N</b>	CuZn39Pb2
---------------	-----------

## COPPER

EN-No.	EN-Alloy
--------	----------

**Sheets, cold-rolled** \_\_\_\_\_ **70**

<b>CW024A</b>	Cu-DHP
---------------	--------

**Plates, hot-rolled** \_\_\_\_\_ **70**

<b>CW021A</b>	Cu-HCP
---------------	--------

## BRONZE

EN-No.	EN-Alloy
--------	----------

**Sheets, cold rolled** \_\_\_\_\_ **71**

<b>CW452K</b>	CuSn6
---------------	-------

## INDUSTRIAL PLASTICS

Mat. Code	Material
-----------	----------

**Plates, extruded/planed/casted/ glass fibre-reinforced** \_\_\_\_\_ **76**

<b>PA6</b>	Polyamide 6
<b>PA66</b>	Polyamide 66
<b>POM-C</b>	Polyoxymethylene
<b>PE1000</b>	Polyethylene
<b>PVC</b>	Polyvinylchloride

# Colour coding of aluminium alloys

Overview of aluminium colour coding according to WGM colour chart.

EN AW-	Alloy EN (DIN)	Color identification					
1050A	Al99,5 (Al99,5)	Red (RAL 3020) Black (RAL 9004)	3.0255	A-5	1B	4507	A1
2007	AlCu4PbMgMn (AlCuMgPb)	Black (RAL 9004)	3.1645	–	–	573-3	–
2011	AlCu6BiPb (AlCuBiPb)	Red (RAL 3020)	3.1655	A-U5PbBi	FC1	6362-68	–
2014	AlCu4SiMg (AlCuSiMn)		3.1255	A-U4SG	–	3581	PA33
2017A	AlCu4MgSi(A) (AlCuMg1)	Green (RAL 6002)	3.1325	A-U4G	–	3579	PA6
2024	AlCu4Mg1 (AlCuMg2)	Orange (RAL 2004)	3.1355	A-U4G1	–	3583	PA7
5005A	AlMg1(C) (AlMg1)		3.3315	–	–	5734	PA43
5083	AlMg4,5Mn0,7 (AlMg4,5Mn)	Brown (RAL 8002)	3.3547	A-G4,5MC	N8	7790	PA13
5754	AlMg3 (AlMg3)	Yellow (RAL 1023)	3.3535	A-G3M	–	3575	PA11
6012	AlMgSiPb (AlMgSiPb)	White (RAL 9010)	3.0615	–	–	–	–
6060	AlMgSi (AlMgSi0,5)	Colorless	3.3206	A-GS	HE 9	3569-66	PA38
6082	AlSi1MgMn (AlMgSi1)	Blue (RAL 5010)	3.2315	A-SGM0,7	H30	3571	PA4
7020	AlZn4,5Mg1 (AlZn4,5Mg1)	Pink (RAL 3015)	3.4335	A-Z5G	H17	7791	PA47
7022	AlZn5Mg3Cu (AlZnMgCu0,5)	Light grey (RAL 7035)	3.4345	–	–	–	–
7075	AlZn5,5MgCu (AlZnMgCu1,5)	Violet (RAL 4005)	3.4365	A-Z5GU	–	3735	PA9



## TOGETHER WE ARE STRONG FOR YOU!

We all have one common goal: **SATISFACTION** based on **TRUST**.

You will benefit from the future-oriented synergies of competence and innovation. Experienced employees and highly qualified junior team members combine experience with new ideas. For this reason, dynamic teamwork acts as a multiplier and becomes the basis for long-term motivation and continuous success.

We guarantee an **INDIVIDUAL AND PERSONAL** service.

For us «The customer comes first». That is why we promise you to continue measuring ourselves with your needs. It is our strong commitment to meet your requirements.

We believe that a successful **PARTNERSHIP** is the pillar of our existence!



Become one of our partners!

Today more than 6.000 international and national small, medium-sized and large companies belong among our customers.

As one of the largest stock-holding specialists for non-ferrous metals in Europe we provide several branches of craft, trade and industry with our variety of products, for example:

- Automation**
- Automotive**
- Building**
- Conveyor technology**
- Electricity**
- Hydraulics**
- Mechanical engineering**
- Metal construction**
- Solar and power engineering**
- Tool and mould construction**
- Turning and milling technology**





## ABOUT US

### WE ARE FASTER – YOU TOO CAN BENEFIT!

From our logistics center in Bielefeld we deliver our goods not only all over Europe but also worldwide, reliably and on time. Due to our company's fleet as well as our longtime cooperations with subcontractors and forwarding agents we can guarantee short reaction times and utmost flexibility, for small and large quantities!

Ensure YOUR HEAD START and just take advantage of OUR TEMPO!

**Worldwide deliveries**

**Short reaction /delivery times**

**Regular tours**

**Cost-optimised conditions**

**Direct deliveries**



### WE TURN DEFECTS INTO QUALITY!

Trust in our high quality standards! Since our first QM certification procedures in 1997, our methods and processes are regularly being audited by accredited institutions.

With the objective of improving the quality of products and services constantly, our quality management (QM) is based on the principles of the Continuous Improvement Process (CIP).

The orientation towards CIP ensures the constant monitoring and analysis of all processes. By means of technical documentation deviations are instantly defined and patched.

Optimised procedures avoid the repetition of mistakes and guarantee the process safety.

Please find our current QM certificate on [www.rasch-metalle.com](http://www.rasch-metalle.com).





## OUR SERVICES



## RASCHMETALLE: ONE SOURCE FOR YOUR NEEDS!

As your partner and service supplier we offer you more than „Stocking and Delivering“. We adapt ourselves to your needs and requirements.

Our services do not only include the cutting of non-ferrous metals, grey cast iron and industrial plastics:

Specialised service teams realise the production as well as product-related processing through to the prefabricated product, also according to drawing.

In longterm cooperations with specialised partners we also provide you with various products and services such as:

**Steel**

**Stainles steel**

**Wires**

**Coils**

**Processing**

## OUR SERVICES

<b>Cutting center</b>	<b>16</b>
Sheets / Plates	<b>17</b>
Bars / Tubes / Profiles	<b>18</b>
<b>Prefabrication</b>	<b>19</b>
<b>Warehousing</b>	<b>20</b>





## OUR SERVICES CUTTING CENTER

### PRECISE AND INDIVIDUAL: BLANKS, CIRCLES & RINGS!

In our high speed cutting centers we cut bars/tubes/profiles as well as sheets/plates of non-ferrous metals, grey cast iron and industrial plastics to size. We provide you with tailored solutions of blanks whatever the shape in small, middle and large series.

Due to our precise and on time manufacturing, you may considerably reduce your costs of prefabrication, as well as your metal scraps.

Electronically controlled high performance cutting machines enable us to meet your highest quality requirements, for example a clean sectional view and closest tolerances.

Efficient warehouse logistics combined with a large stock guarantee you short reaction times, a rapid preparation of your orders and short-term delivery dates, cost-efficient and effective. That's RASCHMETALLE!

## OUR SERVICES CUTTING CENTER SHEETS / PLATES

On our high precision saws we can customise almost all materials to your desired measure! With regards to your requirements we cut to size individual blanks out of each dimension and standard format.

We also offer circular and ring blanks which are produced following your specific measures and drawings.

#### Sawn Blanks

- ◆ Thickness max. 200 mm
- ◆ Format max. 3400 x 3400 mm
- ◆ Tolerances  $\pm 0,1$  mm
- ◆ Individual blanks/Series

#### Circles/Rings

- ◆ Up to  $\varnothing 1500$  mm
- ◆ Tolerances on request





## OUR SERVICES CUTTING CENTER BARS/TUBES/PROFILES

### WHAT TURNS AROUND COMES ROUND!

On our high speed saws we tailor your customised fixed lengths of bars/tubes/profile in all standard formats of semi-finished products.

At short notice we produce not only specific rod sections but also small, middle and large series within closest tolerances.

We provide you with sections in each required length and quantity, always produced precisely and cost-optimised.

#### Sections from bar products

- ◆ All semi-finished materials
- ◆ Bar sections up to Ø 500 mm
- ◆ Series up to Ø 430 mm
- ◆ Short term reaction/delivery
- ◆ Closest tolerances
- ◆ Cost-efficiency

## OUR SERVICES PREFABRICATION

### LET US WORK FOR YOU!

In Cooperation with certified specialist among our long-term clients we are more than a full-range-supplier for non-ferrous metals. We are also your partner for short-term and precise further processing of all common semi-finished materials, on request also through to prefabricated components and finished products (individual parts or series). You have current requirements? Send us your drawings!

Our PREFABRICATION team will help you realising (among others):

- Turning/Milling
- Laser Cutting
- Water jet cutting
- Bending/Forming
- Drilling
- Welding
- Surface treatment





## OUR SERVICES WAREHOUSING

## OUR STOCK IS YOUR STOCK!

As your specialist for semi-finished products of non-ferrous materials we stock a broad and deep variety of all forms and dimensions. The outstanding and continuously growing capacities of our company owned locations make us one of the leading metal distributors with own warehouses.

Take the advantage of an immediate access to small and large quantities!

We stock for you!

In cooperation with us you can decide, when and where you need your goods. We supply you with the requested quantity. On demand and if needed just-in-time.

**You are looking for products, alloys or dimensions not found in our catalogue?**

We will obtain and stock them for you, quickly and at fair conditions.

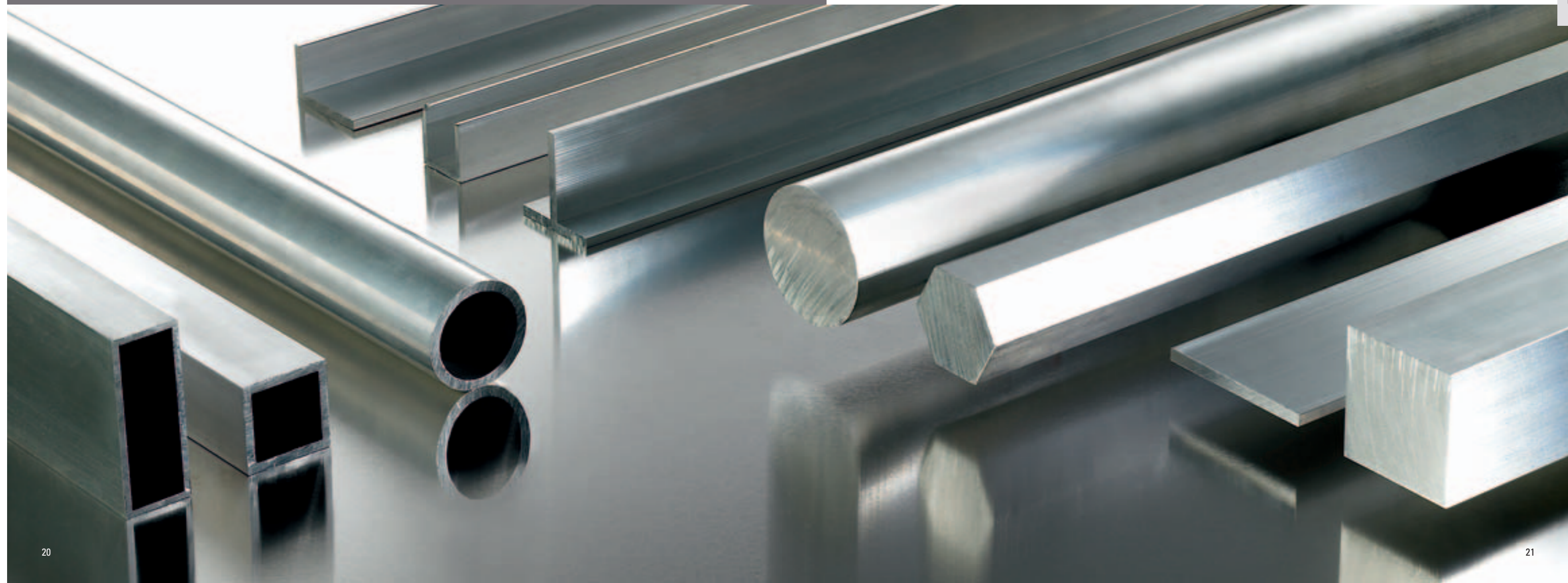


## BARS/TUBES/PROFILES

Aluminium	22
Brass	42
Copper	48
Bronze	52

Non-ferrous metals

Bars/Tubes/Profiles





# ROHS COMPLIANT ALLOYS & LEAD FREE ALLOYS!

You need materials according to the current EU-directives?

All of the alloys you can find in our aluminium assortment meet the RoHS and automotive standards, except the alloys EN AW-2007/2030.

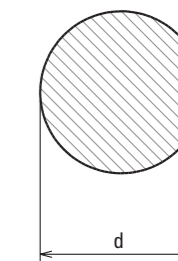
In addition to the above named, we provide you with alternative lead free as well as lead reduced alloys, in dependence of the specific application.

With respect to your specific needs and technical requirements, we will help you choosing the right alloy, always considering among others:

- Machinability**
- Anodising quality**
- Corrosion resistance**
- Procurement times**
- Cost optimisation**
- Framework contract**



## Round bars, drawn



drawn, partly chamfered, in manufacturing lengths

EN-Number	AW-2007/2030	AW-2011	AW-2017A	AW-6061	AW-6082	AW-7075	
EN-Alloy	AlCu4PbMgMn	AlCu6BiPb	AlCu4MgSi(A)	AlMg1SiCu	AlSi1MgMn	AlZn5,5MgCu	
EN-Temper	T3/T351	T8	T3	T6	T6	T6	
DIN-Number	3.1645	3.1655	3.1325	3.3211	3.2315	3.4365	
DIN-Alloy	AlCuMgPb	AlCuBiPb	AlCuMg1	AlMg1SiCu	AlMgSi1	AlZnMgCu1,5	
DIN-Temper	F38	F37	F40	F29	F31	F54	
Dimension d (mm)	Weight (~ kg/m)						
6	0,08	●	●	○	○	●	○
8	0,14	●	●	○	○	●	○
9	0,17	●	○	○	○	○	○
10	0,22	●	●	○	○	●	●
11	0,26	●	○	○	○	○	○
12	0,31	●	●	○	○	●	○
13	0,36	●	○	○	○	○	○
14	0,42	●	●	○	○	●	○
15	0,49	●	●	○	○	●	●
16	0,55	●	●	○	○	●	○
17	0,62	●	●	○	○	○	○
18	0,70	●	●	○	○	●	○
19	0,78	●	○	○	○	○	○
20	0,86	●	●	●	○	●	○
21	0,95	●	○	○	○	○	○
22	1,04	●	●	●	○	●	○
23	1,14	●	○	○	○	○	○
24	1,24	●	○	○	○	●	○
25	1,35	●	●	●	○	●	○
26	1,46	●	●	○	○	○	○
27	1,57	●	●	●	○	○	○
28	1,69	●	●	●	○	●	○
29	1,82	●	○	○	○	○	○
30	1,94	●	●	●	○	●	○
31	2,07	○	○	○	○	○	○
32	2,21	●	●	●	○	●	○
33	2,35	●	○	○	○	○	○
34	2,50	●	○	○	○	○	○
35	2,64	●	●	●	○	●	○
36	2,80	●	●	●	○	○	○
37	2,96	○	○	○	○	○	○
38	3,12	●	●	●	○	○	○
39	3,28	○	○	○	○	○	○
40	3,45	●	●	●	○	●	○
41	3,63	●	○	○	○	○	○
42	3,81	●	●	●	○	○	○
43	3,99	○	○	○	○	○	○
44	4,18	○	○	○	○	○	○
45	4,37	●	●	●	○	○	○
46	4,57	○	○	○	○	○	○
47	4,77	○	○	○	○	○	○
48	4,97	●	●	●	○	○	○
49	5,18	○	○	○	○	○	○
50	5,40	●	●	●	○	○	○
51	5,61	○	○	○	○	○	○
52	5,84	●	●	●	○	○	○
53	6,06	○	○	○	○	○	○
54	6,29	○	○	○	○	○	○
55	6,53	●	●	●	○	●	○
56	6,77	●	○	○	○	○	○
57	7,01	○	○	○	○	○	○
58	7,26	○	○	○	○	○	○
59	7,51	○	○	○	○	○	○
60	7,77	●	○	○	○	○	○

EN 573-3 Chemical composition      EN 754-2 Mechanical properties  
 EN 754-1 Technical conditions for inspection and delivery      EN 754-3 Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request



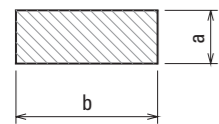








Flat bars, extruded



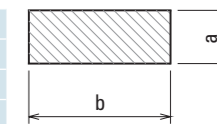
extruded,  
in manufacturing lengths

EN-Number	AW-2007/2030	AW-2017A	AW-6060	AW-6082
EN-Alloy	AlCu4PbMgMn	AlCu4MgSi(A)	AlMgSi	AlSi1MgMn
EN-Temper	T4/T4511	T4	T66	T6
DIN-Number	3.1645	3.1325	3.3206	3.2315
DIN-Alloy	AlCuMgPb	AlCuMg1	AlMgSi0,5	AlMgSi1
DIN-Temper	F33-F37	F36-F40	F22	F27-F31
Dimension b x a (mm)	Weight (~ kg/m)			
8 5	0,11		●	
10 2	0,06		●	
10 3	0,08		●	
10 4	0,11		●	
10 5	0,14		●	
10 6	0,17		●	
10 8	0,22		●	●
12 3	0,10		●	
12 4	0,13		●	
12 5	0,17		●	
12 6	0,20		●	
12 8	0,26		●	
12 10	0,33	●		
15 2	0,08		●	
15 3	0,12		●	●
15 4	0,17		●	
15 5	0,21	●	●	●
15 6	0,25		●	●
15 8	0,33	●	●	●
15 10	0,41	●	●	
15 12	0,50	●	●	
20 2	0,11		●	●
20 3	0,17		●	
20 4	0,22		●	●
20 5	0,28	●	●	●
20 6	0,33	●	●	●
20 8	0,44	●	●	●
20 10	0,55	●	○	●
20 12	0,66	●	○	○
20 15	0,83	●	○	●
25 2	0,14		●	●
25 3	0,21		●	
25 4	0,28		●	●
25 5	0,34	●	●	
25 6	0,41	●	●	
25 8	0,55	●	●	●
25 10	0,69	●	○	●
25 12	0,83	●	●	●
25 15	1,03	●	○	○
25 20	1,38	●	○	●
30 2	0,17		●	●
30 3	0,25		●	●
30 4	0,33		●	●
30 5	0,41	●	●	●
30 6	0,50	●	●	
30 8	0,66	●	●	
30 10	0,83	●	○	●
30 12	0,99	●	○	●
30 15	1,24	●	○	●
30 20	1,65	●	○	●
30 25	2,06	●	○	●
35 2	0,19		●	
35 3	0,29		●	
35 4	0,39		●	●
35 5	0,48		●	

EN 573-3 Chemical composition    EN 755-2 Mechanical properties  
 EN 755-1 Technical conditions for inspection and delivery    EN 755-5 Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request

Flat bars, extruded



extruded,  
in manufacturing lengths

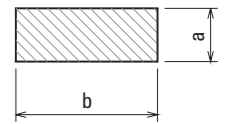
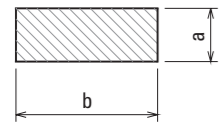
EN-Number	AW-2007/2030	AW-2017A	AW-6060	AW-6082
EN-Alloy	AlCu4PbMgMn	AlCu4MgSi(A)	AlMgSi	AlSi1MgMn
EN-Temper	T4/T4511	T4	T66	T6
DIN-Number	3.1645	3.1325	3.3206	3.2315
DIN-Alloy	AlCuMgPb	AlCuMg1	AlMgSi0,5	AlMgSi1
DIN-Temper	F33-F37	F36-F40	F22	F27-F31
Dimension b x a (mm)	Weight (~ kg/m)			
35 6	0,58		●	
35 8	0,77	●	●	
35 10	0,96	●	●	
35 12	1,16	●	●	●
35 15	1,44	●	●	●
35 20	1,93	●	○	●
35 25	2,41	●	○	○
40 2	0,22		●	
40 3	0,33		●	●
40 4	0,44		●	●
40 5	0,55	●	●	●
40 6	0,66	●	○	●
40 8	0,88	●	○	●
40 10	1,10	●	○	●
40 12	1,32	●	○	●
40 15	1,65	●	○	●
40 20	2,20	●	○	●
40 25	2,75	●	○	●
40 30	3,30	●	○	●
45 3	0,37		●	
45 5	0,62		●	
45 6	0,74		●	
45 8	0,99		●	
45 10	1,24		●	
45 15	1,86	●		
45 20	2,48	○	○	○
45 25	3,09	●	○	○
45 30	3,71	●	○	○
50 2	0,28		●	
50 3	0,41		●	
50 4	0,55		●	
50 5	0,69	●	●	●
50 6	0,83	●	●	●
50 8	1,10	●	○	●
50 10	1,38	●	○	●
50 12	1,65	●	○	●
50 15	2,06	●	○	●
50 20	2,75	●	○	●
50 25	3,44	●	○	●
50 30	4,13	●	○	●
50 35	4,81	●	○	○
50 40	5,50	●	○	●
60 2	0,33		●	
60 3	0,50		●	
60 4	0,66		●	●
60 5	0,83	●	●	●
60 6	0,99	●	○	●
60 8	1,32	●	○	●
60 10	1,65	●	○	●
60 12	1,98	●	○	●
60 15	2,48	●	○	●
60 20	3,30	●	○	●
60 25	4,13	●	○	●
60 30	4,95	●	○	●
60 35	5,78	●	○	○

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request



Flat bars, extruded

Flat bars, extruded



extruded,  
in manufacturing lengths

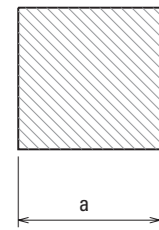
extruded,  
in manufacturing lengths

EN-Number		AW-2007/2030	AW-2017A	AW-6060	AW-6082
EN-Alloy		AlCu4PbMgMn	AlCu4MgSi(A)	AlMgSi	AlSi1MgMn
EN-Temper		T4/T4511	T4	T66	T6
DIN-Number		3.1645	3.1325	3.3206	3.2315
DIN-Alloy		AlCuMgPb	AlCuMg1	AlMgSi0,5	AlMgSi1
DIN-Temper		F33-F37	F36-F40	F22	F27-F31
Dimension b x a (mm)	Weight (~ kg/m)				
60	40	6,60	●	○	●
60	50	8,25	●	○	●
70	2	0,39			●
70	3	0,58			●
70	5	0,96			●
70	6	1,16			●
70	8	1,54			●
70	10	1,93	●	○	●
70	12	2,31	●		●
70	15	2,89	●	○	●
70	20	3,85	●	○	●
70	25	4,81	●	○	●
70	30	5,78	●	○	●
70	35	6,74	●	○	○
70	40	7,70	●	○	●
70	50	9,63	●	○	○
70	55	10,59	●	○	○
70	60	11,55	●	○	○
80	2	0,44			●
80	3	0,66			●
80	4	0,88			●
80	5	1,10	●		●
80	6	1,32	●		●
80	8	1,76	●	○	●
80	10	2,20	●	○	●
80	12	2,64	●		●
80	15	3,30	●	○	●
80	20	4,40	●	○	●
80	25	5,50	●	○	●
80	30	6,60	●	○	●
80	40	8,80	●	○	●
80	50	11,00	●	○	●
80	60	13,20	●	○	●
90	5	1,24			●
90	8	1,98			●
90	10	2,48	●	○	○
90	15	3,71	●	○	○
90	20	4,95	●	○	●
90	25	6,19	●	○	○
90	30	7,43	●	○	○
90	40	9,90	●	○	○
90	50	12,38	●	○	○
90	60	14,85	●	○	○
90	70	17,33	●	○	○
100	2	0,55			●
100	3	0,83			●
100	4	1,10			●
100	5	1,38	●		●
100	6	1,65	●		●
100	8	2,20	●	○	●
100	10	2,75	●	○	●
100	12	3,30	●	○	●
100	15	4,13	●	○	●
100	20	5,50	●	○	●
100	25	6,88	●	○	●
100	30	8,25	●	○	●

EN-Number		AW-2007/2030	AW-2017A	AW-6060	AW-6082
EN-Alloy		AlCu4PbMgMn	AlCu4MgSi(A)	AlMgSi	AlSi1MgMn
EN-Temper		T4/T4511	T4	T66	T6
DIN-Number		3.1645	3.1325	3.3206	3.2315
DIN-Alloy		AlCuMgPb	AlCuMg1	AlMgSi0,5	AlMgSi1
DIN-Temper		F33-F37	F36-F40	F22	F27-F31
Dimension b x a (mm)	Weight (~ kg/m)				
100	35	9,63	●		●
100	40	11,00	●	○	●
100	50	13,75	●	○	●
100	60	16,50	●	○	●
100	80	22,00	●	○	●
110	10	3,03			●
120	5	1,65			●
120	6	1,98			●
120	8	2,64	○	○	●
120	10	3,30	●	○	●
120	12	3,96	○	○	●
120	15	4,95	●	○	●
120	20	6,60	●	○	●
120	25	8,25	○	○	○
120	30	9,90	●	○	●
120	40	13,20	●	○	●
120	50	16,50	●	○	○
120	60	19,80	●	○	○
120	80	26,40	●		
130	45	16,09	●		
130	90	32,18	●		
140	10	3,85	●		●
140	15	5,78	○	○	○
140	20	7,70	○	○	○
150	5	2,06			●
150	8	3,30			●
150	10	4,13	●	○	●
150	12	4,95			●
150	15	6,19	●	○	●
150	20	8,25	●	○	●
150	25	10,31	●	○	●
150	30	12,38	●	○	●
150	40	16,50	●	○	●
150	50	20,63	●	○	○
150	60	24,75	●	○	○
160	10	4,40	○	○	●
160	12	5,28			●
160	15	6,60	○	○	○
160	20	8,80	○	○	●
180	40	19,80	●	○	○
200	8	4,40			●
200	10	5,50	●	○	●
200	15	8,25	●	○	●
200	20	11,00	●	○	●
200	25	13,75	○	○	●
200	40	22,00	○	○	●

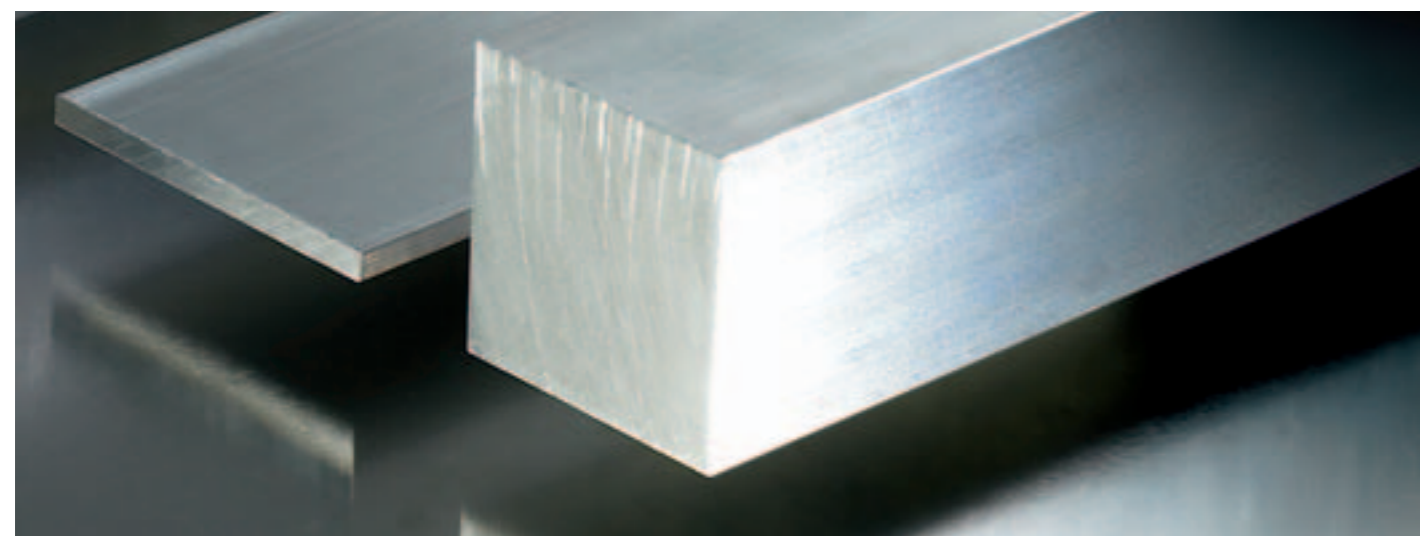


### Square bars, extruded



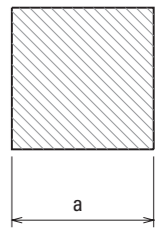
extruded,  
in manufacturing lengths

EN-Number	AW-2007/2030	AW-2017A	AW-5754	AW-6060	AW-6082
EN-Alloy	AlCu4PbMgMn	AlCu4MgSi(A)	AlMg3	AlMgSi	AlSi1MgMn
EN-Temper	T4/T4511	T4	H111/H112	T66	T6
DIN-Number	3.1645	3.1325	3.3535	3.3206	3.2315
DIN-Alloy	AlCuMgPb	AlCuMg1	AlMg3	AlMgSi0,5	AlMgSi1
DIN-Temper	F33-F37	F36-F40	F18	F22	F27-F31
Dimension a (mm)	Weight (~ kg/m)				
8	0,18			●	
10	0,28	●	○	●	●
12	0,40	●	○	○	●
15	0,62	●	○	○	●
16	0,70	●	○	○	○
20	1,10	●	○	●	●
22	1,33	●			
25	1,72	●	○	●	●
30	2,48	●	○	●	●
32	2,82	●	○	○	●
35	3,37	●	○	○	●
40	4,40	●	○	●	●
45	5,57	●	○	○	●
50	6,88	●	○	●	●
55	8,32	●	○	○	○
60	9,90	●	○	●	●
65	11,62	●	○	○	●
70	13,48	●	○	○	●
75	15,47	●	○	○	○
80	17,60	●	○	●	●
90	22,28	●	○	○	●
100	27,50	●	○	●	●
110	33,28	●	○	○	○
115	36,37	●	○	○	○
120	39,60	●	○	○	○
130	46,48	●	○	○	○
140	53,90	●	○	○	○
150	61,88	●	○	○	○
160	70,40	●	○	○	○
180	89,10	●	○	○	○
200	110,00	●	○	○	○



- EN 573-3 Chemical composition
- EN 755-1 Technical conditions for inspection and delivery
- EN 755-2 Mechanical properties
- EN 755-4 Tolerances on dimensions and form

### Square bars, drawn



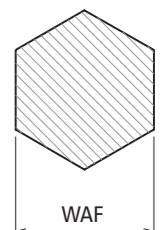
drawn,  
in manufacturing lengths

EN-Number	AW-2007/2030	AW-2011	AW-2017A	AW-6061	AW-6082
EN-Alloy	AlCu4PbMgMn	AlCu6BiPb	AlCu4MgSi(A)	AlMg1SiCu	AlSi1MgMn
EN-Temper	T3	T8	T3	T6	T6
DIN-Number	3.1645	3.1655	3.1325	3.3211	3.2315
DIN-Alloy	AlCuMgPb	AlCuBiPb	AlCuMg1	AlMg1SiCu	AlMgSi1
DIN-Temper	F37	F37	F40	F29	F31
Dimension a (mm)	Weight (~ kg/m)				
8	0,18	●			
10	0,28	●	○	○	○
12	0,40	●	○	○	○
14	0,54	○	○	○	○
15	0,62	●	○	○	○
16	0,70	●	○	○	○
20	1,10	●	○	○	○
22	1,33	○	○	○	○
25	1,72	●	○	○	○
30	2,48	●	○	○	○
35	3,37	●	○	○	○
40	4,40	●	○	○	○
45	5,57	●	○	○	○
50	6,88	●	○	○	○

- EN 573-3 Chemical composition
- EN 754-1 Technical conditions for inspection and delivery
- EN 754-2 Mechanical properties
- EN 754-4 Tolerances on dimensions and form

- EN 573-3 Chemical composition
- EN 754-1 Technical conditions for inspection and delivery
- EN 754-2 Mechanical properties
- EN 754-6 Tolerances on dimensions and form

### Hexagonal bars, drawn



WAF = Width across flats

drawn,  
in manufacturing lengths

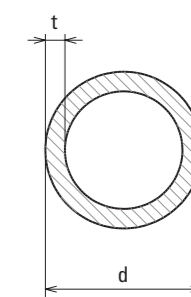
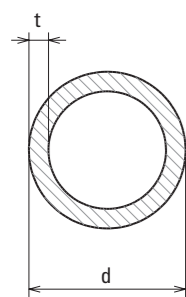
EN-Number	AW-2007/2030	AW-2017A	AW-6082
EN-Alloy	AlCu4PbMgMn	AlCu4MgSi(A)	AlSi1MgMn
EN-Temper	T3	T3	T6
DIN-Number	3.1645	3.1325	3.2315
DIN-Alloy	AlCuMgPb	AlCuMg1	AlMgSi1
DIN-Temper	F37	F40	F31
Dimension WAF (mm)	Weight (~ kg/m)		
10	0,23	●	○
11	0,28	●	
13	0,39	●	○
14	0,46	●	○
17	0,67	●	○
19	0,84	●	○
22	1,13	●	○
24	1,35	●	○
27	1,70	●	○
30	2,10	●	○
32	2,39	●	○
36	3,03	●	○
41	3,93	●	○
46	4,94	●	○
60	8,41	○	○

- EN 573-3 Chemical composition
- EN 754-1 Technical conditions for inspection and delivery
- EN 754-2 Mechanical properties
- EN 754-6 Tolerances on dimensions and form



Round tubes, extruded

Round tubes, extruded



extruded,  
in manufacturing lengths

extruded,  
in manufacturing lengths

EN-Number		AW-2007/2030	AW-6005A	AW-6060	AW-6082
EN-Alloy		AlCu4PbMgMn	AlSiMg(A)	AlMgSi	AlSi1MgMn
EN-Temper		T4/T4511	T6	T66	T6
DIN-Number		3.1645	3.3210	3.3206	3.2315
DIN-Alloy		AlCuMgPb	AlMgSi0,7	AlMgSi0,5	AlMgSi1
DIN-Temper		F37	F26	F22	F29-F31
Dimension d x t (mm)	Weight (~ kg/m)				
6	1	0,04		●	
8	1	0,06		●	
10	1	0,08		●	
10	1,5	0,11		●	
10	2	0,14		●	
10	2,5	0,16		●	
12	1	0,09		●	
12	1,5	0,14		●	
12	2	0,17		●	
13	1,5	0,15		●	
14	2	0,21		●	
15	1	0,12		●	
15	1,5	0,17		●	
15	2	0,22		●	
16	1	0,13		●	
16	1,5	0,19		●	
16	2	0,24		●	●
16	3	0,34		●	●
18	1	0,15		●	
18	1,5	0,21		●	
18	2	0,28		●	
18	3	0,39		●	
20	1	0,16		●	
20	1,5	0,24		●	
20	2	0,31		●	●
20	2,5	0,38		●	●
20	3	0,44		●	●
20	4	0,55		●	●
20	5	0,65		●	●
22	1,5	0,27		●	
22	2	0,35		●	
22	2,5	0,42		●	
22	5	0,73		●	●
24	2	0,38		●	
25	1	0,21		●	
25	1,5	0,30		●	
25	2	0,40		●	
25	2,5	0,49		●	●
25	3	0,57		●	●
25	4	0,73		●	●
25	5	0,86		●	●
28	1,5	0,34		●	
28	2	0,45		●	●
30	2	0,48		●	●
30	2,5	0,59		●	●
30	3	0,70		●	●
30	4	0,90		●	●
30	5	1,08	●	●	●
32	1	0,27		●	
32	2	0,52		●	
32	3	0,75		●	●
32	4	0,97		●	●
35	1,5	0,43		●	
35	2	0,57		●	
35	2,5	0,70		●	
35	3	0,83		●	

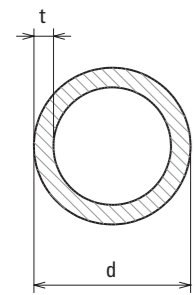
EN-Number		AW-2007/2030	AW-6005A	AW-6060	AW-6082
EN-Alloy		AlCu4PbMgMn	AlSiMg(A)	AlMgSi	AlSi1MgMn
EN-Temper		T4/T4511	T6	T66	T6
DIN-Number		3.1645	3.3210	3.3206	3.2315
DIN-Alloy		AlCuMgPb	AlMgSi0,7	AlMgSi0,5	AlMgSi1
DIN-Temper		F37	F26	F22	F29-F31
Dimension d x t (mm)	Weight (~ kg/m)				
35	5	1,30		●	●
38	1,5	0,47		●	
38	2	0,62		●	
38	4	1,17		●	
40	1,5	0,50		●	
40	2	0,66		●	
40	2,5	0,81		●	●
40	3	0,96		●	●
40	4	1,24		●	
40	5	1,51	●	●	●
40	6	1,76	●	●	●
40	8	2,21		●	●
40	10	2,59	●	●	●
42	1	0,35		●	
42	2	0,69		●	
42	3	1,01		●	●
42	6	1,87	●	●	●
45	2	0,74		●	
45	2,5	0,92		●	
45	4	1,42		●	●
45	5	1,73		●	●
48	3	1,17		●	●
50	1,5	0,63		●	
50	2	0,83		●	
50	2,5	1,03		●	
50	3	1,22		●	●
50	4	1,59		●	
50	5	1,94	●	●	●
50	6	2,28		●	
50	8	2,90		●	●
50	10	3,45	●	●	●
54	2	0,90		●	
55	2	0,92		●	
55	2,5	1,13		●	
55	3	1,35		●	
55	5	2,16		●	
60	2	1,00		●	
60	2,5	1,24		●	
60	3	1,48		●	●
60	5	2,37	●	●	●
60	8	3,59	●	●	●
60	10	4,32	●	●	●
60	15	5,83	●	●	●
62	6	2,90		●	●
65	2	1,09		●	
65	2,5	1,35		●	
65	5	2,59		●	
65	10	4,75	●	●	●
70	2	1,17		●	
70	3	1,74		●	
70	4	2,28		●	●
70	5	2,81		●	
70	10	5,18	●	●	●
70	15	7,12	●	●	●
75	2,5	1,57		●	
75	5	3,02		●	●

EN 573-3 Chemical composition    EN 755-2 Mechanical properties  
 EN 755-1 Technical conditions for inspection and delivery    EN 755-8,9 Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request



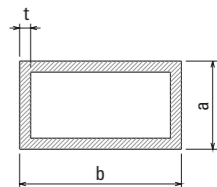
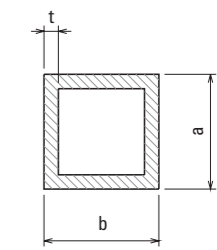
Round tubes, extruded



extruded,  
in manufacturing lengths

EN-Number	AW-2007/2030	AW-6005A	AW-6060	AW-6082
EN-Alloy	AlCu4PbMgMn	AlSiMg(A)	AlMgSi	AlSi1MgMn
EN-Temper	T4/T4511	T6	T66	T6
DIN-Number	3.1645	3.3210	3.3206	3.2315
DIN-Alloy	AlCuMgPb	AlMgSi0,7	AlMgSi0,5	AlMgSi1
DIN-Temper	F37	F26	F22	F29-F31
Dimension d x t (mm)	Weight (~ kg/m)			
75 10	5,61	●	●	●
80 2	1,35		●	
80 2,5	1,67		●	
80 3	1,99		●	
80 4	2,63		●	
80 5	3,24		●	●
80 6	3,83		●	●
80 10	6,04	●	●	●
80 15	8,42	●	●	●
80 20	10,4	●		●
81 8	5,04		●	
84 2	1,42		●	
85 5	3,45		●	
85 3	2,12		●	
90 2	1,52		●	
90 3	2,25		●	
90 4	2,97		●	
90 5	3,67	●	●	●
90 10	6,91	●		●
90 15	9,71	●	●	
100 2	1,69		●	
100 3	2,51		●	
100 5	4,10		●	●
100 6	4,87		●	●
100 10	7,77	●	●	●
100 15	11,0	●	●	●
100 20	13,8	●	●	●
106 3	2,67		●	
108 4	3,59		●	
110 5	4,53	●	●	●
110 10	8,64	●	●	●
120 3	3,03		●	
120 5	4,97		●	
120 8	7,74		●	
120 10	9,50	●	●	●
120 15	13,6	●		●
120 20	17,3	●		●
125 5	5,18		●	●
130 3	3,29		●	
130 5	5,40		●	●
135 5	5,61		●	●
140 5	5,83		●	
140 10	11,2	●	●	●
140 15	16,2	●	●	●
140 20	20,7	●	●	●
150 3	3,81		●	
150 5	6,26		●	●
150 10	12,1	●	●	●
160 5	6,69		●	●
160 10	13,0	●	●	●
170 5	7,12		●	●
170 10	13,8	●	●	●
180 5	7,56		●	●
180 10	14,7	●	●	●
200 3	5,10		●	●
200 5	8,42		●	●
200 30	44,0		●	●

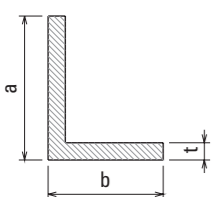
Rectangular tubes, extruded



extruded,  
in manufacturing lengths

EN-Number	AW-6060	
EN-Alloy	AlMgSi	
EN-Temper	T66	
DIN-Number	3.3206	
DIN-Alloy	AlMgSi0,5	
DIN-Temper	F22	
Dimension b x a x t (mm)	Weight (~ kg/m)	
15 15 2	0,28	●
20 10 2	0,28	●
20 15 1,5	0,26	●
20 20 1,5	0,30	●
20 20 2	0,39	●
25 15 2	0,39	●
25 20 2	0,44	●
25 25 2	0,50	●
25 25 3	0,71	●
30 10 1,5	0,30	●
30 15 2	0,44	●
30 20 2	0,50	●
30 30 2	0,60	●
30 30 3	0,87	●
30 30 4	1,12	●
34 34 3	1,00	●
35 15 2	0,50	●
35 20 2	0,55	●
35 35 2	0,71	●
35 35 3	1,04	●
40 10 2	0,50	●
40 15 2	0,55	●
40 20 2	0,60	●
40 20 3	0,87	●
40 25 2	0,66	●
40 30 2	0,71	●
40 30 3	1,04	●
40 30 4	1,34	●
40 40 2	0,82	●
40 40 2,5	1,01	●
40 40 3	1,20	●
40 40 4	1,56	●
45 25 2	0,71	●
50 15 2	0,66	●
50 20 2	0,71	●
50 20 4	1,34	●
50 25 2	0,77	●
50 30 2	0,82	●
50 30 3	1,20	●
50 40 2	0,93	●
50 40 2,5	1,15	●
50 40 4	1,77	●
50 50 2	1,04	●
50 50 3	1,52	●
50 50 4	1,99	●
60 20 2	0,82	●
60 25 3	1,28	●
60 30 2	0,93	●
60 30 3	1,36	●
60 40 2	1,04	●
60 40 2,5	1,28	●
60 40 3	1,52	●
60 40 4	1,99	●
60 40 5	2,46	●
60 40 6	2,93	●
60 40 7	3,40	●
60 40 8	3,87	●
60 40 9	4,34	●
60 40 10	4,81	●
60 40 11	5,28	●
60 40 12	5,75	●
60 40 13	6,22	●
60 40 14	6,69	●
60 40 15	7,16	●
60 40 16	7,63	●
60 40 17	8,10	●
60 40 18	8,57	●
60 40 19	9,04	●
60 40 20	9,51	●
60 40 21	9,98	●
60 40 22	10,45	●
60 40 23	10,92	●
60 40 24	11,39	●
60 40 25	11,86	●
60 40 26	12,33	●
60 40 27	12,80	●
60 40 28	13,27	●
60 40 29	13,74	●
60 40 30	14,21	●
60 40 31	14,68	●
60 40 32	15,15	●
60 40 33	15,62	●
60 40 34	16,09	●
60 40 35	16,56	●
60 40 36	17,03	●
60 40 37	17,50	●
60 40 38	17,97	●
60 40 39	18,44	●
60 40 40	18,91	●
60 40 41	19,38	●
60 40 42	19,85	●
60 40 43	20,32	●
60 40 44	20,79	●
60 40 45	21,26	●
60 40 46	21,73	●
60 40 47	22,20	●
60 40 48	22,67	●
60 40 49	23,14	●
60 40 50	23,61	●
60 40 51	24,08	●
60 40 52	24,55	●
60 40 53	25,02	●
60 40 54	25,49	●
60 40 55	25,96	●
60 40 56	26,43	●
60 40 57	26,90	●
60 40 58	27,37	●
60 40 59	27,84	●
60 40 60	28,31	●
60 40 61	28,78	●
60 40 62	29,25	●
60 40 63	29,72	●
60 40 64	30,19	●
60 40 65	30,66	●
60 40 66	31,13	●
60 40 67	31,60	●
60 40 68	32,07	●
60 40 69	32,54	●
60 40 70	33,01	●
60 40 71	33,48	●
60 40 72	33,95	●
60 40 73	34,42	●
60 40 74	34,89	●
60 40 75	35,36	●
60 40 76	35,83	●
60 40 77	36,30	●
60 40 78	36,77	●
60 40 79	37,24	●
60 40 80	37,71	●
60 40 81	38,18	●
60 40 82	38,65	●
60 40 83	39,12	●
60 40 84	39,59	●
60 40 85	40,06	●
60 40 86	40,53	●
60 40 87	41,00	●
60 40 88	41,47	●
60 40 89	41,94	●
60 40 90	42,41	●
60 40 91	42,88	●
60 40 92	43,35	●
60 40 93	43,82	●
60 40 94	44,29	●
60 40 95	44,76	●
60 40 96	45,23	●
60 40 97	45,70	●
60 40 98	46,17	●
60 40 99	46,64	●
60 40 100	47,11	●
60 40 101	47,58	●
60 40 102	48,05	●
60 40 103	48,52	●
60 40 104	48,99	●
60 40 105	49,46	●
60 40 106	49,93	●
60 40 107	50,40	●
60 40 108	50,87	●
60 40 109	51,34	●
60 40 110	51,81	●
60 40 111	52,28	●
60 40 112	52,75	●
60 40 113	53,22	●
60 40 114	53,69	●
60 40 115	54,16	●
60 40 116	54,63	●
60 40 117	55,10	●
60 40 118	55,57	●
60 40 119	56,04	●
60 40 120	56,51	●
60 40 121	56,98	●
60 40 122	57,45	●
60 40 123	57,92	●
60 40 124	58,39	●
60 40 125	58,86	●
60 40 126	59,33	●
60 40 127	59,80	●
60 40 128	60,27	●
60 40 129	60,74	●
60 40 130	61,21	●
60 40 131	61,68	●
60 40 132	62,15	●
60 40 133	62,62	●
60 40 134	63,09	●
60 40 135	63,56	●
60 40 136	64,03	●
60 40 137	64,50	●
60 40 138	64,97	●
60 40 139	65,44	●
60 40 140	65,91	●
60 40 141	66,38	●
60 40 142	66,85	●
60 40 143	67,32	●
60 40 144	67,79	●
60 40 145	68,26	●
60 40 146	68,73	●
60 40 147	69,20	●
60 40 148	69,67	●
60 40 149	70,14	●
60 40 150	70,61	●
60 40 151	71,08	●
60 40 152	71,55	●
60 40 153	72,02	●
60 40 154	72,49	●
60 40 155	72,96	●
60 40 156	73,43	●
60 40 157	73,90	●
60 40 158	74,37	●
60 40 159	74,84	●
60 40 160	75,31	●
60 40 161	75,78	●
60 40 162	76,25	●
60 40 163	76,72	●
60 40 164	77,19	●
60 40 165	77,66	●
60 40 166	78,13	●
60 40 167	78,60	●
60 40 168	79,07	●
60 40 169	79,54	●
60 40 170	80,01	●
60 40 171	80,48	●
60 40 172	80,95	●
60 40 173	81,42	●
60 40 174	81,89	●
60 40 175	82,36	●
60 40 176	82,83	●
60 40 177	83,30	●
60 40 178	83,77	●
60 40 179	84,24	●
60 40 180	84,71	●
60 40 181	85,18	●
60 40 182	85,65	●
60 40 183	86,12	●
60 40 184	86,59	●
60 40 185	87,06	●
60 40 186	87,53	●
60 40 187	88,00	●
60 40 188	88,47	●
60 40 189	88,94	●
60 40 190	89,41	●
60 40 191	89,88	●
60 40 192	90,35	●
60 40 193	90,82	●
60 40 194	91,29	●
60 40 195	91,76	●
60 40 196	92,23	●
60 40 197	92,70	●
60 40 198	93,17	●
60 40 199	93,64	●
60 40 200	94,11	●
60 40 201	94,58	●
60 40 202	95,05	●
60 40 203	95,52	●
60 40 204	95,99	●
60 40 205	96,46	●
60 40 206	96,93	●
60 40 207	97,40	●
60 40 208	97,87	●
60 40 209	98,34	●
60 40 210	98,81	●
60 40 211	99,28	●
60 40 212	99,75	●
60 40 213	100,22	●
60 40 214	100,69	●
60 40 215	101,16	●

### Angles, extruded

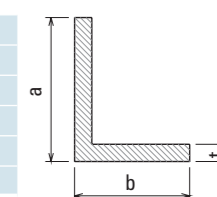


extruded,  
in manufacturing lengths

EN-Number				AW-6060					
EN-Alloy				AlMgSi					
EN-Temper				T66					
DIN-Number				3.3206					
DIN-Alloy				AlMgSi0,5					
DIN-Temper				F22					
Dimension a x b x t (mm)		Weight (~ kg/m)		Dimension a x b x t (mm)		Weight (~ kg/m)			
10	10	2	0,10	●	45	20	3	0,51	●
15	10	2	0,13	●	45	30	3	0,59	●
15	15	2	0,15	●	50	15	2	0,35	●
15	15	3	0,22	●	50	20	2	0,37	●
20	10	2	0,15	●	50	20	3	0,55	●
20	15	2	0,18	●	50	20	4	0,73	●
20	15	3	0,26	●	50	25	2	0,40	●
20	20	2	0,21	●	50	25	4	0,78	●
20	20	3	0,31	●	50	30	2	0,43	●
20	20	4	0,40	●	50	30	3	0,64	●
25	10	2	0,18	●	50	30	4	0,84	●
25	15	2	0,21	●	50	30	5	1,03	●
25	15	3	0,31	●	50	40	2	0,48	●
25	20	2	0,24	●	50	40	4	0,95	●
25	20	3	0,35	●	50	50	2	0,54	●
25	25	2	0,26	●	50	50	3	0,80	●
25	25	3	0,39	●	50	50	4	1,06	●
25	25	4	0,51	●	50	50	5	1,31	●
25	25	5	0,62	●	50	50	6	1,55	●
30	10	2	0,21	●	50	50	8	2,02	●
30	15	2	0,24	●	50	50	10	2,48	●
30	15	3	0,35	●	60	20	2	0,43	●
30	20	2	0,26	●	60	20	3	0,64	●
30	20	3	0,39	●	60	30	2	0,48	●
30	20	4	0,51	●	60	30	3	0,72	●
30	30	2	0,32	●	60	30	4	0,95	●
30	30	3	0,47	●	60	30	5	1,17	●
30	30	4	0,62	●	60	40	2	0,54	●
30	30	5	0,76	●	60	40	3	0,80	●
35	20	3	0,43	●	60	40	4	1,06	●
35	35	2	0,37	●	60	40	5	1,31	●
35	35	3	0,55	●	60	60	2	0,65	●
35	35	4	0,73	●	60	60	3	0,97	●
35	35	5	0,89	●	60	60	4	1,28	●
40	10	2	0,26	●	60	60	5	1,58	●
40	15	2	0,29	●	60	60	6	1,88	●
40	20	2	0,32	●	60	60	8	2,46	●
40	20	3	0,47	●	60	60	10	3,03	●
40	20	4	0,62	●	70	20	2	0,48	●
40	20	5	0,76	●	70	25	2,5	0,64	●
40	25	3	0,51	●	70	30	2	0,54	●
40	25	4	0,67	●	70	70	5	1,86	●
40	30	2	0,37	●	70	70	6	2,21	●
40	30	3	0,55	●	75	50	5	1,65	●
40	30	4	0,73	●	80	20	2	0,54	●
40	40	2	0,43	●	80	30	3	0,88	●
40	40	3	0,64	●	80	40	3	0,97	●
40	40	4	0,84	●	80	40	4	1,28	●
40	40	5	1,03	●	80	40	5	1,58	●
40	40	6	1,22	●	80	40	6	1,88	●
45	15	2	0,32	●	80	40	8	2,46	●

- EN 573-3 Chemical composition
- EN 755-1 Technical conditions for inspection and delivery
- EN 755-2 Mechanical properties
- EN 755-9 Tolerances on dimensions and form

### Angles, extruded

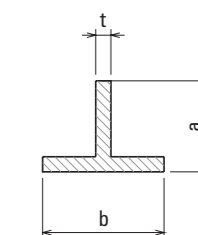


extruded,  
in manufacturing lengths

EN-Number				AW-6060					
EN-Alloy				AlMgSi					
EN-Temper				T66					
DIN-Number				3.3206					
DIN-Alloy				AlMgSi0,5					
DIN-Temper				F22					
Dimension a x b x t (mm)		Weight (~ kg/m)		Dimension a x b x t (mm)		Weight (~ kg/m)			
80	50	6	2,05	●	100	100	6	3,20	●
80	60	6	2,21	●	100	100	8	4,22	●
80	80	3	1,30	●	100	100	10	5,23	●
80	80	4	1,72	●	120	40	4	1,72	●
80	80	5	2,13	●	120	60	6	2,87	●
80	80	6	2,54	●	120	60	8	3,78	●
80	80	8	3,34	●	120	80	3	1,63	●
80	80	10	4,13	●	120	80	10	5,23	●
100	20	2	0,65	●	120	120	8	5,10	●
100	30	3	1,05	●	120	120	12	7,52	●
100	50	3	1,21	●	140	40	3	1,46	●
100	50	5	1,99	●	150	50	4	2,16	●
100	50	6	2,38	●	150	50	8	4,22	●
100	50	8	3,12	●	150	75	10	5,91	●
100	50	10	3,85	●	150	100	5	3,37	●
100	60	8	3,34	●	150	100	10	6,60	●
100	100	3	1,63	●	200	100	10	7,98	●
100	100	4	2,16	●					

- EN 573-3 Chemical composition
- EN 755-1 Technical conditions for inspection and delivery
- EN 755-2 Mechanical properties
- EN 755-9 Tolerances on dimensions and form

### Tee sections, extruded

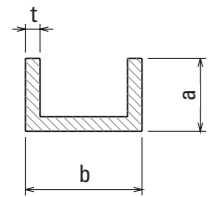


extruded,  
in manufacturing lengths

EN-Number				AW-6060			
EN-Alloy				AlMgSi			
EN-Temper				T66			
DIN-Number				3.3206			
DIN-Alloy				AlMgSi0,5			
DIN-Temper				F22			
Dimension b x a x t (mm)		Weight (~ kg/m)		Dimension b x a x t (mm)		Weight (~ kg/m)	
15	15	2	0,15	●			
20	20	2	0,21	●			
25	25	3	0,38	●			
30	30	2	0,31	●			
30	30	3	0,47	●			
40	40	3	0,63	●			
40	40	4	0,83	●			
50	50	5	1,82	●			
60	60	3	0,96	●			
60	60	4	1,27	●			
60	60	6	1,88	●			
100	100	10	5,22	●			



### Channels, extruded



extruded,  
in manufacturing lengths

EN-Number		AW-6060		EN-Number		AW-6060			
EN-Alloy		AlMgSi		EN-Alloy		AlMgSi			
EN-Temper		T66		EN-Temper		T66			
DIN-Number		3.3206		DIN-Number		3.3206			
DIN-Alloy		AlMgSi0,5		DIN-Alloy		AlMgSi0,5			
DIN-Temper		F22		DIN-Temper		F22			
Dimension a x b x t (mm)		Weight (~ kg/m)		Dimension a x b x t (mm)		Weight (~ kg/m)			
10	10	2	0,14	●	40	40	2,5	0,78	●
12	12	2	0,17	●	40	40	3	0,92	●
13	13	2	0,19	●	40	40	4	1,21	●
15	15	1,5	0,17	●	25	45	3	0,72	●
15	15	2	0,22	●	30	50	3	0,84	●
10	20	2	0,19	●	40	50	4	1,32	●
20	20	1,5	0,23	●	50	50	3	1,17	●
20	20	2	0,30	●	50	50	4	1,53	●
20	20	3	0,44	●	50	50	5	1,89	●
25	20	1,5	0,27	●	20	60	2	0,52	●
28	20	1,5	0,30	●	30	60	3	0,92	●
30	20	2	0,41	●	40	60	3	1,09	●
40	20	2	0,52	●	40	60	4	1,43	●
25	25	2	0,38	●	40	60	5	1,76	●
25	25	3	0,56	●	60	60	4	1,86	●
15	30	2	0,30	●	40	80	3	1,25	●
15	30	3	0,44	●	40	80	4	1,64	●
20	30	2	0,36	●	40	80	6	2,40	●
30	30	2	0,46	●	50	80	5	2,30	●
30	30	3	0,68	●	40	86	3	1,30	●
20	35	2	0,38	●	40	100	3	1,41	●
35	35	2	0,55	●	50	100	5	2,57	●
35	35	3	0,80	●	50	100	8	3,97	●
20	40	2	0,41	●	40	106	3	1,46	●
20	40	4	0,78	●	45	120	10	5,13	●
30	40	3	0,76	●	80	125	8	5,81	●
40	40	2	0,63	●					

We can also provide you with Z sections and specific profiles according to drawing and sample (see chapter "Special profiles").

## WE ARE NOT ONLY STRONG IN LIGHT METALS!

We complete our large choice of standard formats and dimensions in several aluminium alloys with a wide range of heavy metal products.

Benefit from a great variety of dimensions and intermediate sizes, even in millimeter steps!

In case we do not meet your requirements, in spite of our broad and deep stock programme, contact us! We will obtain the material for you!

In the following chapters please find out more about the available alloys and dimensions of all additional materials:

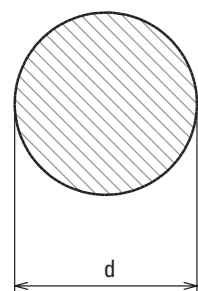
- Brass
- Copper
- Bronze
- Grey cast iron
- Industrial plastics



EN 573-3	Chemical composition	EN 755-2	Mechanical properties
EN 755-1	Technical conditions for inspection and delivery	EN 755-9	Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request

Round bars, drawn / extruded / casted

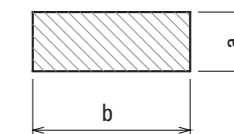


drawn/extruded/casted, partly chamfered, in manufacturing lengths

EN-Number	CW614N	CW713R	EN-Number	CW614N	CW713R
EN-Alloy	CuZn39Pb3	CuZn37Mn3Al2PbSi	EN-Alloy	CuZn39Pb3	CuZn37Mn3Al2PbSi
EN-Temper	drawn/extr./casted	drawn/extr.	EN-Temper	drawn/extr./casted	drawn/extr.
DIN-Number	2.0401	2.0550	DIN-Number	2.0401	2.0550
DIN-Alloy	CuZn39Pb3	CuZn40Al2	DIN-Alloy	CuZn39Pb3	CuZn40Al2
DIN-Temper	drawn/extr./casted	drawn/extr.	DIN-Temper	drawn/extr./casted	drawn/extr.
Dimension d (mm)	Weight (~ kg/m)		Dimension d (mm)	Weight (~ kg/m)	
2	0,03	●	35	8,08	●
3	0,06	●	36	8,55	●
4	0,11	●	38	9,52	●
5	0,16	●	40	10,55	●
6	0,24	●	42	11,63	●
7	0,32	●	45	13,35	●
8	0,42	●	48	15,19	●
9	0,53	●	50	16,49	●
10	0,66	●	52	17,83	●
11	0,80	●	55	19,95	●
12	0,95	●	60	23,74	●
13	1,11	●	65	27,86	●
14	1,29	●	70	32,31	●
15	1,48	●	75	37,09	●
16	1,69	●	80	42,20	●
17	1,91	●	85	47,64	●
18	2,14	●	90	53,41	●
19	2,38	●	95	59,51	●
20	2,64	●	100	65,94	●
21	2,91	●	110	79,79	●
22	3,19	●	120	94,95	●
23	3,49	●	130	111,44	●
24	3,80	●	140	129,24	●
25	4,12	●	150	148,37	●
26	4,46	●	160	168,81	●
27	4,81	●	170	190,57	●
28	5,17	●	180	213,65	●
30	5,93	●	200	263,76	●
32	6,75	●	250	412,13	●
33	7,18	●	300	593,46	●
34	7,62	●			

- EN 12164 Chemical composition
- EN 12164 Technical conditions for inspection and delivery
- EN 12164 Mechanical properties
- EN 12164 Tolerances on dimensions and form

Flat bars, drawn / extruded



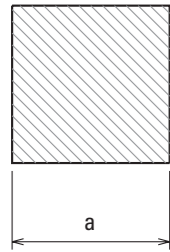
drawn/extruded, in manufacturing lengths

EN-Number	CW614N	EN-Number	CW614N	EN-Number	CW614N
EN-Alloy	CuZn39Pb3	EN-Alloy	CuZn39Pb3	EN-Alloy	CuZn39Pb3
EN-Temper	drawn/extr.	EN-Temper	drawn/extr.	EN-Temper	drawn/extr.
DIN-Number	2.0401	DIN-Number	2.0401	DIN-Number	2.0401
DIN-Alloy	CuZn39Pb3	DIN-Alloy	CuZn39Pb3	DIN-Alloy	CuZn39Pb3
DIN-Temper	drawn/extr.	DIN-Temper	drawn/extr.	DIN-Temper	drawn/extr.
Dimension b x a (mm)	Weight (~ kg/m)	Dimension b x a (mm)	Weight (~ kg/m)	Dimension b x a (mm)	Weight (~ kg/m)
8 4	0,27	●	30 6	1,53	●
10 2	0,17	●	30 8	2,04	●
10 3	0,26	●	30 10	2,55	●
10 4	0,34	●	30 12	3,06	●
10 5	0,43	●	30 15	3,83	●
10 6	0,51	●	30 20	5,10	●
10 8	0,68	●	30 25	6,38	●
12 4	0,41	●	35 5	1,49	●
12 5	0,51	●	35 6	1,79	●
15 2	0,26	●	35 8	2,38	●
15 3	0,38	●	35 10	2,98	●
15 4	0,51	●	35 15	4,46	●
15 5	0,64	●	35 20	5,95	●
15 6	0,77	●	35 30	8,93	●
15 8	1,02	●	40 3	1,02	●
15 10	1,28	●	40 4	1,36	●
20 2	0,34	●	40 5	1,70	●
20 3	0,51	●	40 6	2,04	●
20 4	0,68	●	40 8	2,72	●
20 5	0,85	●	40 10	3,40	●
20 6	1,02	●	40 12	4,08	●
20 8	1,36	●	40 15	5,10	●
20 10	1,70	●	40 20	6,80	●
20 12	2,04	●	40 25	8,50	●
20 15	2,55	●	40 30	10,20	●
25 2	0,43	●	45 20	7,65	●
25 3	0,64	●	50 4	1,70	●
25 4	0,85	●	50 5	2,13	●
25 5	1,06	●	50 6	2,55	●
25 6	1,28	●	50 8	3,40	●
25 8	1,70	●	50 10	4,25	●
25 10	2,13	●	50 15	6,38	●
25 12	2,55	●	50 20	8,50	●
25 15	3,19	●	50 25	10,63	●
25 20	4,25	●	50 30	12,75	●
30 2	0,51	●	60 3	1,53	●
30 3	0,77	●	60 4	2,04	●
30 4	1,02	●	60 5	2,55	●
30 5	1,28	●	60 6	3,06	●
			60 8	4,08	●
			60 10	5,10	●
			60 15	7,65	●
			60 20	10,20	●
			60 25	12,75	●
			60 30	15,30	●
			60 35	17,85	●
			60 40	20,40	●
			70 8	4,76	●
			70 10	5,95	●
			70 12	7,14	●
			70 15	8,93	●
			70 20	11,90	●
			70 30	17,85	●
			70 35	20,83	●
			70 40	23,80	●
			80 5	3,40	●
			80 8	5,44	●
			80 10	6,80	●
			80 15	10,20	●
			80 20	13,60	●
			80 25	17,00	●
			80 30	20,40	●
			80 40	27,20	●
			80 50	34,00	●
			80 60	40,80	●
			100 6	5,10	●
			100 8	6,80	●
			100 10	8,50	●
			100 15	12,75	●
			100 20	17,00	●
			100 30	25,50	●
			100 40	34,00	●
			100 50	42,50	●
			120 12	12,24	●
			120 20	20,40	●
			120 40	40,80	●
			120 50	51,00	●
			150 50	63,75	●

- EN 12167 Chemical composition
- EN 12167 Technical conditions for inspection and delivery
- EN 12167 Mechanical properties
- EN 12167 Tolerances on dimensions and form



Square bars, drawn / extruded

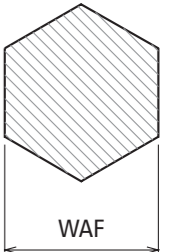


drawn/extruded,  
in manufacturing lengths

EN-Number			EN-Number		
EN-Alloy			EN-Alloy		
EN-Temper			EN-Temper		
DIN-Number			DIN-Number		
DIN-Alloy			DIN-Alloy		
DIN-Temper			DIN-Temper		
Dimension a (mm)	Weight (~ kg/m)		Dimension a (mm)	Weight (~ kg/m)	
3	0,08	●	40	13,6	●
5	0,21	●	45	17,2	●
6	0,31	●	50	21,3	●
8	0,54	●	55	25,7	●
10	0,85	●	60	30,6	●
12	1,22	●	65	35,9	●
14	1,67	●	70	41,7	●
15	1,91	●	75	47,8	●
18	2,75	●	80	54,4	●
20	3,40	●	90	68,9	●
24	4,90	●	100	85,0	●
25	5,31	●	110	103	●
30	7,65	●	120	122	●
32	8,70	●	130	144	●
35	10,4	●			

- EN 12164 Chemical composition
- EN 12164 Technical conditions for inspection and delivery
- EN 12164 Mechanical properties
- EN 12164 Tolerances on dimensions and form

Hexagonal bars, drawn / extruded

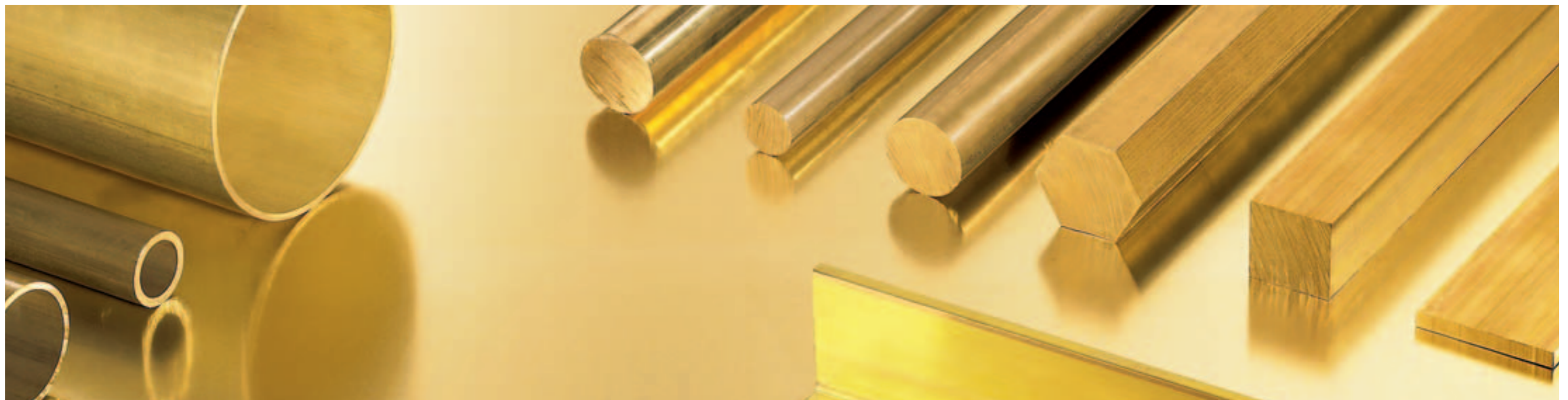


WAF = Width across flats

drawn/extruded,  
in manufacturing lengths

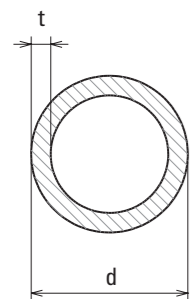
EN-Number			EN-Number		
EN-Alloy			EN-Alloy		
EN-Temper			EN-Temper		
DIN-Number			DIN-Number		
DIN-Alloy			DIN-Alloy		
DIN-Temper			DIN-Temper		
Dimension WAF (mm)	Weight (~ kg/m)		Dimension WAF (mm)	Weight (~ kg/m)	
6	0,27	●	27	5,37	●
7	0,36	●	30	6,63	●
8	0,47	●	32	7,54	●
9	0,60	●	34	8,50	●
10	0,74	●	36	9,54	●
11	0,89	●	38	10,6	●
12	1,06	●	41	12,4	●
13	1,24	●	46	15,6	●
14	1,44	●	50	18,4	●
15	1,65	●	55	22,3	●
16	1,88	●	60	26,5	●
17	2,13	●	65	31,1	●
19	2,66	●	70	36,0	●
20	2,95	●	80	47,0	●
22	3,56	●	85	53,0	●
24	4,24	●			

- EN 12164 Chemical composition
- EN 12164 Technical conditions for inspection and delivery
- EN 12164 Mechanical properties
- EN 12164 Tolerances on dimensions and form



Round tubes, drawn / extruded

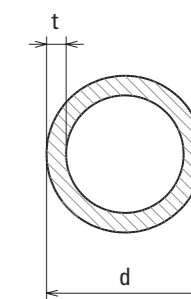
Round tubes, drawn / extruded



drawn/extruded, in manufacturing lengths

EN-Number	CW508L	CW614N	EN-Number	CW508L	CW614N
EN-Alloy	CuZn37	CuZn39Pb3	EN-Alloy	CuZn37	CuZn39Pb3
EN-Temper	hard, drawn	drawn/extruded	EN-Temper	hard, drawn	drawn/extruded
DIN-Number	2.0321	2.0401	DIN-Number	2.0321	2.0401
DIN-Alloy	CuZn37	CuZn39Pb3	DIN-Alloy	CuZn37	CuZn39Pb3
DIN-Temper	hard, drawn	drawn/extruded	DIN-Temper	hard, drawn	drawn/extruded
Dimension d x t (mm)	Weight (~ kg/m)		Dimension d x t (mm)	Weight (~ kg/m)	
2 0,5	0,02	●	24 5	2,51	●
3 0,5	0,03	●	25 2	1,21	●
4 0,5	0,05	●	25 2,5	1,48	●
5 0,5	0,06	●	25 4	2,22	●
5 1	0,11	●	25 5	2,64	●
6 0,5	0,07	●	25 7,5	3,46	●
6 1	0,13	●	26 2	1,27	●
7 0,5	0,09	●	26 3	1,82	●
7 1	0,16	●	26 4	2,32	●
8 0,5	0,10	●	27 1	0,69	●
8 1	0,18	●	28 1,5	1,05	●
8 1,5	0,26	●	28 2	1,37	●
9 1	0,21	●	28 3	1,98	●
10 0,5	0,13	●	28 4	2,53	●
10 1	0,24	●	30 1	0,76	●
10 1,5	0,34	●	30 2	1,48	●
10 3	0,55	●	30 2,5	1,81	●
11 0,5	0,14	●	30 3	2,14	●
11 1	0,26	●	30 5	3,30	●
12 0,5	0,15	●	32 2	1,58	●
12 1	0,29	●	32 3	2,29	●
12 1,5	0,42	●	32 4	2,95	●
12 2	0,53	●	33 2,5	2,01	●
12 3	0,71	●	33 3	2,37	●
13 1	0,32	●	34 3	2,45	●
13 3	0,79	●	34 4	3,17	●
14 1	0,34	●	35 2,5	2,14	●
14 2	0,63	●	35 5	3,96	●
14 3	0,87	●	36 2	1,79	●
15 1	0,37	●	36 3	2,61	●
15 1,5	0,53	●	36 4	3,38	●
15 2,5	0,82	●	38 3	2,77	●
16 1	0,40	●	38 4	3,59	●
16 2	0,74	●	38 6,5	5,40	●
16 3	1,03	●	40 1	1,03	●
16 4	1,27	●	40 2	2,00	●
17 3	1,11	●	40 2,5	2,47	●
18 1	0,45	●	40 3	2,93	●
18 1,5	0,65	●	40 5	4,62	●
18 2	0,84	●	40 10	7,91	●
18 3	1,19	●	40 12	8,86	●
20 1	0,50	●	42 3	3,09	●
20 1,5	0,73	●	42 3,5	3,55	●
20 2	0,95	●	42 4	4,01	●
20 2,5	1,15	●	42 7	6,46	●
20 3	1,35	●	42 9	7,83	●
20 5	1,98	●	44 5	5,14	●
21 3	1,42	●	45 2,5	2,80	●
22 3	1,50	●	45 5	5,28	●
24 1,5	0,89	●	46 3	3,40	●
24 4	2,11	●	46 4	4,43	●

EN 12168/12449	Chemical composition
EN 12168/12449	Technical conditions for inspection and delivery
EN 12168/12449	Mechanical properties
EN 12168/12449	Tolerances on dimensions and form

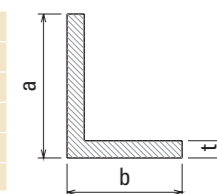


drawn/extruded, in manufacturing lengths

EN-Number	CW508L	CW614N	EN-Number	CW508L	CW614N
EN-Alloy	CuZn37	CuZn39Pb3	EN-Alloy	CuZn37	CuZn39Pb3
EN-Temper	hard, drawn	drawn/extruded	EN-Temper	hard, drawn	drawn/extruded
DIN-Number	2.0321	2.0401	DIN-Number	2.0321	2.0401
DIN-Alloy	CuZn37	CuZn39Pb3	DIN-Alloy	CuZn37	CuZn39Pb3
DIN-Temper	hard, drawn	drawn/extruded	DIN-Temper	hard, drawn	drawn/extruded
Dimension d x t (mm)	Weight (~ kg/m)		Dimension d x t (mm)	Weight (~ kg/m)	
48 4	4,64	●	75 5	9,23	●
50 2,5	3,13	●	78 5	9,63	●
50 5	5,93	●	80 2,5	5,11	●
50 10	10,55	●	80 3	6,09	●
52 6	7,28	●	80 15	25,72	●
55 5	6,59	●	90 5	11,21	●
56 3	4,19	●	100 2,5	6,43	●
60 2,5	3,79	●	100 5	12,53	●
60 5	7,25	●	100 6	14,88	●
65 2,5	4,12	●	100 10	23,74	●
65 5	7,91	●	100 20	42,20	●
70 5	8,57	●	105 5	13,19	●
70 10	15,83	●	110 10	26,38	●

Angles, drawn / extruded

EN-Number	CW617N	EN-Number	CW617N
EN-Alloy	CuZn40Pb2	EN-Alloy	CuZn40Pb2
EN-Temper	drawn/extr.	EN-Temper	drawn/extr.
DIN-Number	2.0402	DIN-Number	2.0402
DIN-Alloy	CuZn40Pb2	DIN-Alloy	CuZn40Pb2
DIN-Temper	drawn/extruded	DIN-Temper	drawn/extruded
Dimension a x b x t (mm)	Weight (~ kg/m)	Dimension a x b x t (mm)	Weight (~ kg/m)
20 20 2	0,65	40 20 3	1,45
20 20 3	0,94	40 20 4	1,90
25 25 2	0,82	40 40 3	1,96
25 25 3	1,20	40 40 4	2,58
25 25 5	1,91	40 40 5	3,19
30 15 2	0,73	50 25 4	2,41
30 30 3	1,45	50 25 5	2,98
30 30 4	1,90	50 50 5	4,04
40 20 2	0,99		

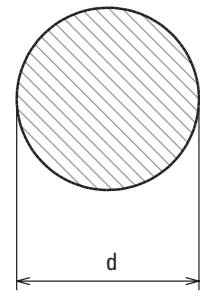


drawn/extruded, in manufacturing lengths

EN 12164	Chemical composition
EN 12164	Technical conditions for inspection and delivery
EN 12164	Mechanical properties
EN 12164	Tolerances on dimensions and form



Round bars, drawn / extruded / casted



drawn/extruded/casted, in manufacturing lengths

EN-Number	CW004A	EN-Number	CW004A		
EN-Alloy	Cu-ETP	EN-Alloy	Cu-ETP		
EN-Temper	drawn/extruded/casted	EN-Temper	drawn/extruded/casted		
DIN-Number	2.0065	DIN-Number	2.0065		
DIN-Alloy	E-Cu	DIN-Alloy	E-Cu		
DIN-Temper	drawn/extruded/casted	DIN-Temper	drawn/extruded/casted		
Dimension d (mm)	Weight (~ kg/m)	Dimension d (mm)	Weight (~ kg/m)		
1	0,01	● soft, in rings	35	8,56	●
2	0,03	● soft, in rings	40	11,2	●
3	0,06	●	45	14,1	●
4	0,11	●	50	17,5	●
5	0,17	●	55	21,1	●
6	0,25	●	60	25,2	●
8	0,45	●	65	29,5	●
10	0,70	●	70	34,2	●
12	1,01	●	75	39,3	●
14	1,37	●	80	44,7	●
15	1,57	●	90	56,6	●
16	1,79	●	100	69,9	●
18	2,26	●	110	84,5	●
20	2,79	●	120	101	●
22	3,38	●	130	118	●
25	4,37	●	140	137	●
26	4,72	●	150	157	●
28	5,48	●	160	179	●
30	6,29	●	180	226	●
32	7,15	●	200	279	●

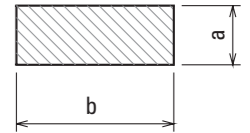
We also supply several forms and dimensions of the following copper alloys:

EN-Nr.	CW106C	CW101C	CW008A	CW118C
EN-Legierung	CuCr1Zr	CuBe2	Cu-OF	CuTeP
EN-Zustand	drawn/extr./casted	drawn/extr./casted	drawn/extr./casted	drawn/extr./casted
DIN-Nr.	2.1293	2.1247	2.0040	2.1546
DIN-Legierung	Copper-chromium-zircon	Copper-beryllium	OF-Cu	Copper-tellurium
DIN-Zustand	drawn/extr./casted	drawn/extr./casted	drawn/extr./casted	drawn/extr./casted

following EN 12165 for dimension 65-200 mm

- EN 13601 Chemical composition
- EN 13601 Technical conditions for inspection and delivery
- EN 13601 Mechanical properties
- EN 13601 Tolerances on dimensions and form

Flat bars, drawn / extruded



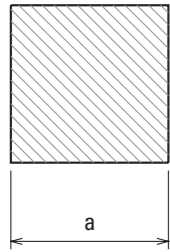
drawn/extruded, in manufacturing lengths

sharp-edged/  
rounded edges

EN-Number	CW004A	EN-Number	CW004A	EN-Number	CW004A						
EN-Alloy	Cu-ETP	EN-Alloy	Cu-ETP	EN-Alloy	Cu-ETP						
EN-Temper	drawn/extr.	EN-Temper	drawn/extr.	EN-Temper	drawn/extr.						
DIN-Number	2.0065	DIN-Number	2.0065	DIN-Number	2.0065						
DIN-Alloy	E-Cu	DIN-Alloy	E-Cu	DIN-Alloy	E-Cu						
DIN-Temper	drawn/extr.	DIN-Temper	drawn/extr.	DIN-Temper	drawn/extr.						
Dimension b x a (mm)	Weight (~ kg/m)	sharp-edged	rounded edges	Dimension b x a (mm)	Weight (~ kg/m)	sharp-edged	rounded edges	Dimension b x a (mm)	Weight (~ kg/m)	sharp-edged	rounded edges
10 3	0,27	●		40 4	1,42	●		70 30	18,69	●	
12 5	0,53	●		40 5	1,78	●	●	80 5	3,56	●	
12 10	1,07	●		40 6	2,14	●	●	80 10	7,12	●	●
15 2	0,27	●		40 8	2,85	●	●	80 15	10,68	●	
15 3	0,40	●		40 10	3,56	●	●	80 20	14,24	●	
15 5	0,67	●		40 15	5,34	●		80 30	21,36	●	
15 8	1,07	●		40 20	7,12	●		80 40	28,48	●	
20 3	0,53	●		40 30	10,68	●		80 50	35,60	●	
20 4	0,71	●		50 3	1,34	●		100 5	4,45	●	
20 5	0,89	●		50 4	1,78	●		100 6	5,34	●	
20 6	1,07	●		50 5	2,23	●	●	100 10	8,90	●	
20 8	1,42	●		50 6	2,67	●	●	100 15	13,35	●	
20 10	1,78	●		50 8	3,56	●	●	100 20	17,80	●	
20 15	2,67	●		50 10	4,45	●	●	100 30	26,70	●	
25 3	0,67	●	●	50 12	5,34	●		100 40	35,60	●	
25 4	0,89	●	●	50 15	6,68	●		100 50	44,50	●	
25 5	1,11	●	●	50 20	8,90	●		110 50	48,95	●	
25 6	1,34	●		50 30	13,35	●		120 10	10,68	●	
25 10	2,23	●		50 35	15,58	●		120 15	16,02	●	
25 15	3,34	●		50 40	17,80	●		120 20	21,36	●	
30 3	0,80	●	●	60 4	2,14	●		120 30	32,04	●	
30 4	1,07	●	●	60 5	2,67	●	●	120 40	42,72	●	
30 5	1,34	●	●	60 8	4,27	●	●	140 15	18,69	●	
30 6	1,60	●		60 10	5,34	●	●	150 15	20,03	●	
30 8	2,14	●		60 15	8,01	●		150 40	53,40	●	
30 10	2,67	●		60 20	10,68	●		160 10	14,24	●	
30 15	4,01	●		60 25	13,35	●		160 15	21,36	●	
30 20	5,34	●		60 30	16,02	●		160 30	42,72	●	
35 4	1,25		●	60 40	21,36	●		200 10	17,80	●	
40 3	1,07	●		60 50	26,70	●		200 20	35,60	●	

- EN 13601 Chemical composition
- EN 13601 Technical conditions for inspection and delivery
- EN 13601 Mechanical properties
- EN 13601 Tolerances on dimensions and form

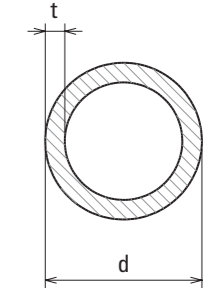
Square bars, drawn / extruded



drawn/extruded,  
in manufacturing lengths

EN-Number	CW004A	
EN-Alloy	Cu-ETP	
EN-Temper	drawn/extruded	
DIN-Number	2.0065	
DIN-Alloy	E-Cu	
DIN-Temper	drawn/extruded	
Dimension a (mm)	Weight (~ kg/m)	
6	0,32	●
8	0,57	●
10	0,89	●
12	1,28	●
15	2,00	●
20	3,56	●
25	5,56	●
30	8,01	●
35	10,9	●
40	14,2	●
45	18,0	●
50	22,3	●
60	32,0	●
70	43,6	●
80	57,0	●
90	72,1	●
100	89,0	●
120	128,2	●

Round tubes, drawn



drawn,  
in manufacturing lengths

EN-Number	CW024A	CW024A
EN-Alloy	Cu-DHP	Cu-DHP
EN-Temper	R290	R220
DIN-Number	2.0090	2.0090
DIN-Alloy	SF-Cu	SF-Cu
DIN-Temper	hard	soft
Dimension d x t (mm)	Weight (~ kg/m)	in rings
4 1	0,08	●
5 0,5	0,06	●
5 1	0,11	●
6 1	0,14	●
8 1	0,20	●
8 1,5	0,27	●
10 1	0,25	●
12 1	0,31	●
15 1	0,39	●
15 2	0,73	●
18 1,5	0,69	●

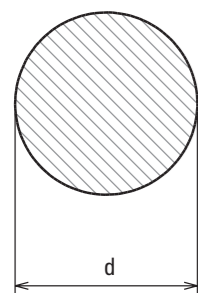


EN 13601	Chemical composition
EN 13601	Technical conditions for inspection and delivery
EN 13601	Mechanical properties
EN 13601	Tolerances on dimensions and form

EN 12449	Chemical composition
EN 12449	Technical conditions for inspection and delivery
EN 12449	Mechanical properties
EN 12449	Tolerances on dimensions and form



Round bars, extruded / casted



extruded/casted,  
in manufacturing lengths

EN-Number	CW307G	CW453K	CC483K	CC493K
EN-Alloy	CuAl10Ni5Fe4	CuSn8	CuSn12	CuSn7Zn4Pb7
EN-Temper	extruded/casted	extruded	casted	casted
DIN-Number	2.0966	2.1030	2.1052	2.1090
DIN-Alloy	CuAl10Ni5Fe4	CuSn8	CuSn12 (SnBz12)	CuSn7ZnPb (RG7)
DIN-Temper	extruded/casted	extruded	casted	casted
Dimension d (mm)	Weight (~ kg/m)		final size	final size
12	1,3	●	●	●
15	1,8	●	●	●
18	2,5			●
20	3,0	●	●	●
22	3,6			●
25	4,7	●	●	●
30	6,6	●	●	●
32	7,6			●
35	9,0	●	●	●
40	11,7	●	●	●
45	14,8	●	●	●
50	18,2	●	●	●
55	21,8	●	●	●
60	26,0	●	●	●
65	30,4	●	●	●
70	35,0	●	●	●
75	40,4	●	●	●
80	45,9	●	●	●
85	51,7	●	●	●
90	57,9	●	●	●
95	65,0			●
100	72,7	●	●	●
110	87,7	●	●	●
120	104	●	●	●
125	113			●
130	122		●	●
140	142	●	●	●
150	162	●	●	●
160	186		●	●
170	209	●	●	●
180	234		●	●
190	261		●	●
200	288	●	●	●
250	446		●	●
300	638			●
350	890			●
400	1128			●

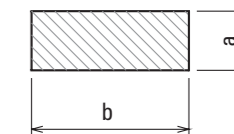
EN 1982 Chemical composition (for CC493K and CC483K)

EN 12163 Chemical composition

EN 12163 Technical conditions for inspection and delivery

EN 12163 Mechanical properties

Flat bars, casted

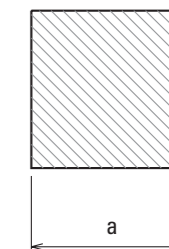


casted,  
in manufacturing lengths

EN-Number	CC483K	CC493K	EN-Number	CC483K	CC493K		
EN-Alloy	CuSn12	CuSn7Zn4Pb7	EN-Alloy	CuSn12	CuSn7Zn4Pb7		
EN-Temper	casted	casted	EN-Temper	casted	casted		
DIN-Number	2.1052	2.1090	DIN-Number	2.1052	2.1090		
DIN-Alloy	CuSn12 (SnBz12)	CuSn7ZnPb (RG7)	DIN-Alloy	CuSn12 (SnBz12)	CuSn7ZnPb (RG7)		
DIN-Temper	casted	casted	DIN-Temper	casted	casted		
Dimension b x a (mm)	Weight (~ kg/m)	final size	final size	Dimension b x a (mm)	Weight (~ kg/m)	final size	final size
25 13	3,5	●		70 16	12,3	●	●
35 15	5,6	●		70 20	15,0	●	●
50 10	5,6	●	●	80 10	9,6	●	●
50 16	8,3	●	●	80 16	14,0	●	●
50 20	10,2	●	●	80 20	17,0	●	●
60 10	6,6	●	●	100 10	11,9	●	●
60 16	10,0	●	●	100 16	17,4	●	●
65 16	11,0		●	100 20	21,4	●	●
65 30	19,1	●	●	120 20	25,2	●	●

EN 1982 Chemical composition

Square bars, casted



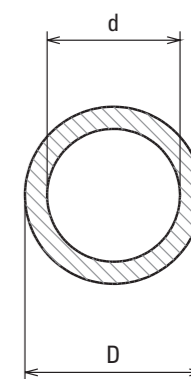
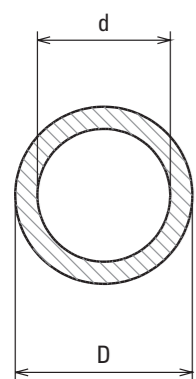
casted,  
in manufacturing lengths

EN-Number	CC483K	CC493K	EN-Number	CC483K	CC493K		
EN-Alloy	CuSn12	CuSn7Zn4Pb7	EN-Alloy	CuSn12	CuSn7Zn4Pb7		
EN-Temper	casted	casted	EN-Temper	casted	casted		
DIN-Number	2.1052	2.1090	DIN-Number	2.1052	2.1090		
DIN-Alloy	CuSn12 (SnBz12)	CuSn7ZnPb (RG7)	DIN-Alloy	CuSn12 (SnBz12)	CuSn7ZnPb (RG7)		
DIN-Temper	casted	casted	DIN-Temper	casted	casted		
Dimension a (mm)	Weight (~ kg/m)	final size	final size	Dimension a (mm)	Weight (~ kg/m)	final size	final size
30	9,1	●	●	70	47,5	●	●
40	15,7	●	●	80	61,5	●	●
50	24,0	●	●	100	95,0	●	●
60	34,2	●	●				

EN 1982 Chemical composition

Round tubes, casted

Round tubes, casted



casted,  
in manufacturing lengths

casted,  
in manufacturing lengths

EN-Number		CC483K	CC493K	EN-Number		CC483K	CC493K
EN-Alloy		CuSn12	CuSn7Zn4Pb7	EN-Alloy		CuSn12	CuSn7Zn4Pb7
EN-Temper		casted	casted	EN-Temper		casted	casted
DIN-Number		2.1052	2.1090	DIN-Number		2.1052	2.1090
DIN-Alloy		CuSn12 (SnBz12)	CuSn7ZnPb (RG7)	DIN-Alloy		CuSn12 (SnBz12)	CuSn7ZnPb (RG7)
DIN-Temper		casted	casted	DIN-Temper		casted	casted
Dimension D x d (mm)	Weight (~ kg/m)	final size	final size	Dimension D x d (mm)	Weight (~ kg/m)	final size	final size
25 15	3,3		●	65 55	11,0		●
25 18	2,7		●	70 20	33,0	●	●
28 20	3,3		●	70 30	30,0	●	●
30 15	5,4	●	●	70 35	28,5		●
32 20	5,2		●	70 40	25,0	●	●
35 15	7,9		●	70 45	22,5		●
35 25	5,4		●	70 50	19,0		●
36 18	7,8		●	70 55	15,5		●
38 27	5,9		●	70 60	11,7		●
40 15	10,5		●	75 30	34,8	●	●
40 20	9,2		●	75 40	31,3		●
40 25	8,1		●	75 45	28,0		●
40 30	6,3		●	75 50	25,0		●
45 15	13,5		●	75 55	20,8		●
45 20	12,5		●	75 60	16,9		●
45 25	11,2		●	75 65	11,8		●
45 30	9,3		●	80 30	41,5	●	●
45 35	7,2		●	80 40	37,0	●	●
50 15	16,8		●	80 50	31,0	●	●
50 20	15,9	●	●	80 55	27,4		●
50 25	14,5	●	●	80 60	23,5	●	●
50 30	12,7		●	82 70	16,9		●
50 35	11,6		●	85 40	42,5		●
50 40	8,1		●	85 50	36,8		●
55 25	18,5		●	85 60	29,0		●
55 30	17,0		●	85 65	25,0		●
55 35	14,5		●	85 70	20,8		●
55 40	12,0		●	90 30	53,5	●	●
55 45	9,2		●	90 40	49,5	●	●
60 20	23,7		●	90 50	43,0	●	●
60 25	23,0		●	90 60	35,5	●	●
60 30	20,5	●	●	90 70	26,5	●	●
60 35	18,0		●	90 75	21,0		●
60 40	16,0	●	●	90 80	16,5		●
60 45	13,0		●	95 60	41,0		●
60 50	10,0		●	95 75	28,5		●
65 30	23,5		●	95 80	23,2		●
65 35	22,8		●	100 30	68,0		●
65 40	20,3		●	100 40	63,0	●	●
65 45	17,5		●	100 50	56,5	●	●
65 50	14,3		●	100 60	49,0	●	●

EN-Number		CC483K	CC493K	EN-Number		CC483K	CC493K
EN-Alloy		CuSn12	CuSn7Zn4Pb7	EN-Alloy		CuSn12	CuSn7Zn4Pb7
EN-Temper		casted	casted	EN-Temper		casted	casted
DIN-Number		2.1052	2.1090	DIN-Number		2.1052	2.1090
DIN-Alloy		CuSn12 (SnBz12)	CuSn7ZnPb (RG7)	DIN-Alloy		CuSn12 (SnBz12)	CuSn7ZnPb (RG7)
DIN-Temper		casted	casted	DIN-Temper		casted	casted
Dimension D x d (mm)	Weight (~ kg/m)	final size	final size	Dimension D x d (mm)	Weight (~ kg/m)	final size	final size
100 70	40,5	●	●	160 120	90,0	●	●
100 75	35,5		●	160 130	73,0		●
100 80	30,0	●	●	160 140	54,5		●
100 85	24,2		●	170 90	154,0		●
100 90	18,5		●	170 100	142,0		●
110 50	70,9		●	170 120	113,5	●	●
110 60	64,0	●	●	170 140	78,0		●
110 70	55,4	●	●	180 80	193,0		●
110 80	45,0	●	●	180 100	167,0		●
110 90	33,6	●	●	180 110	153,0	●	●
110 100	20,4		●	180 120	138,5	●	●
115 100	28,4		●	180 140	101,0		●
120 40	93,0		●	180 150	83,0		●
120 50	87,9		●	190 110	180,5		●
120 60	80,5		●	190 150	109,0		●
120 70	71,7	●	●	190 160	87,7		●
120 80	61,5	●	●	200 80	244,0		●
120 90	49,9		●	200 100	223,0		●
120 100	36,9	●	●	200 140	155,0		●
130 50	105,7		●	200 150	135,0	●	●
130 60	98,3		●	200 180	68,5		●
130 70	89,5	●	●	210 180	97,0		●
130 80	79,3	●	●	220 100	277,0		●
130 90	67,7	●	●	220 140	214,0		●
130 100	54,7	●	●	220 160	174,0		●
130 110	43,1		●	230 180	159,0		●
140 60	116,0		●	240 140	278,0		●
140 70	108,7		●	250 150	293,0		●
140 80	98,5		●	250 200	175,0		●
140 90	86,9		●	260 190	236,0		●
140 100	74,0	●	●	270 220	196,0		●
140 110	59,6	●	●	280 180	343,0		●
140 120	43,7		●	300 200	390,0		●
150 60	137,0		●	300 250	236,0		●
150 70	129,2	●	●	350 250	470,0		●
150 80	119,0	●	●	400 250	740,0		●
150 90	107,5	●	●	400 300	560,0		●
150 100	94,5	●	●				
150 120	65,0	●	●				
160 80	140,0		●				
160 100	120,0		●				

EN 1982 Chemical composition



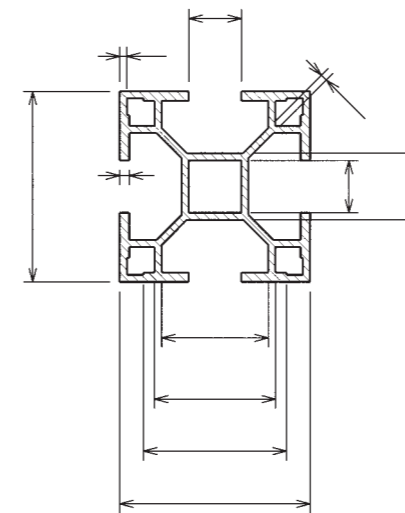
## LET'S PROFILE YOUR WISHES!

Strengthened by qualified cooperations with national and international producers we are your partner for special profiles, manufactured with high precision according to your drawings and samples.

On request we can also realise surface treatment as well as prefabrication. Profit from complete processing out of one hand!

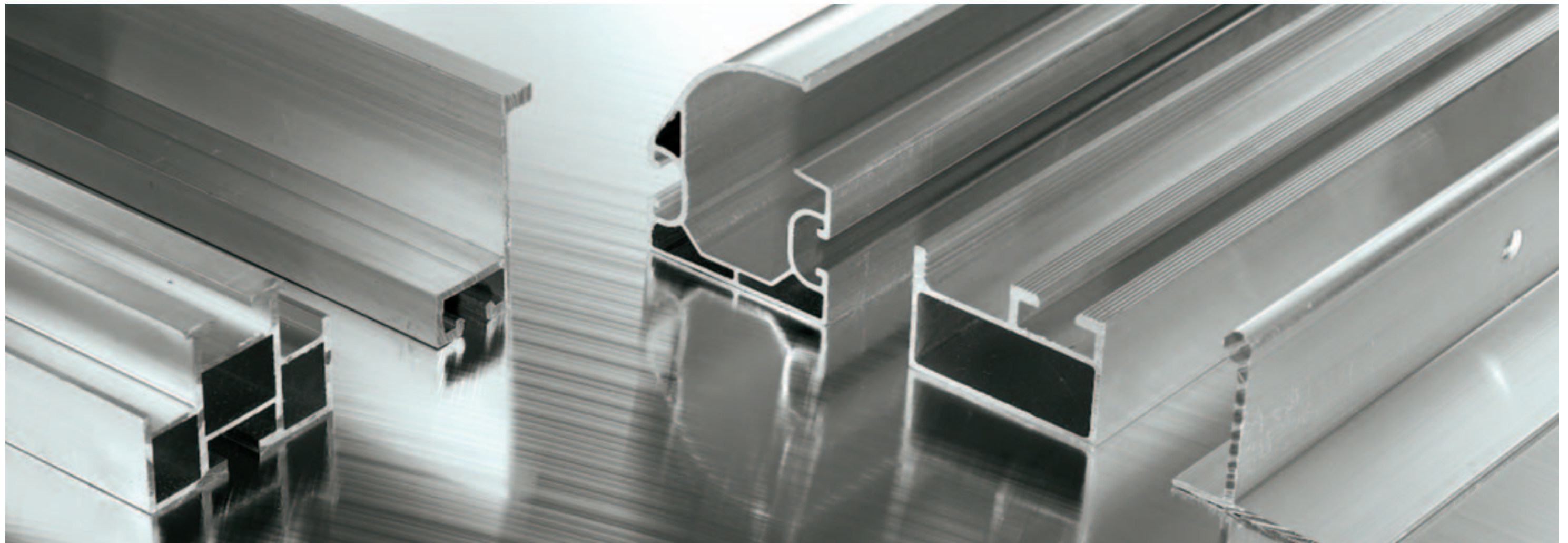
Examples for applications:

- Automotive**
- Furniture industry**
- Light advertising**
- Mechanical engineering**
- Metal construction**
- Solar and power engineering**
- Systems engineering**



You are looking for a specific profile which is not included in the range of standard dimensions? You need further information? We will assist you with the realisation of your requirements. Together we will find a solution for any technical problem!

Please send your drawings to our **SPECIAL PROFILES** team!





## MAKE YOUR CHOICE!

As a full-range-supplier we are reknown for our broad and deep assortment of products and formats.

In consequence, we also provide you with small, medium and large formats of sheets/plates of aluminium, brass, copper, bronze, grey cast iron as well as industrial plastics.

As a service provider we quickly produce your individually sized **cuttings** in each dimension and quantity.

### Sheets

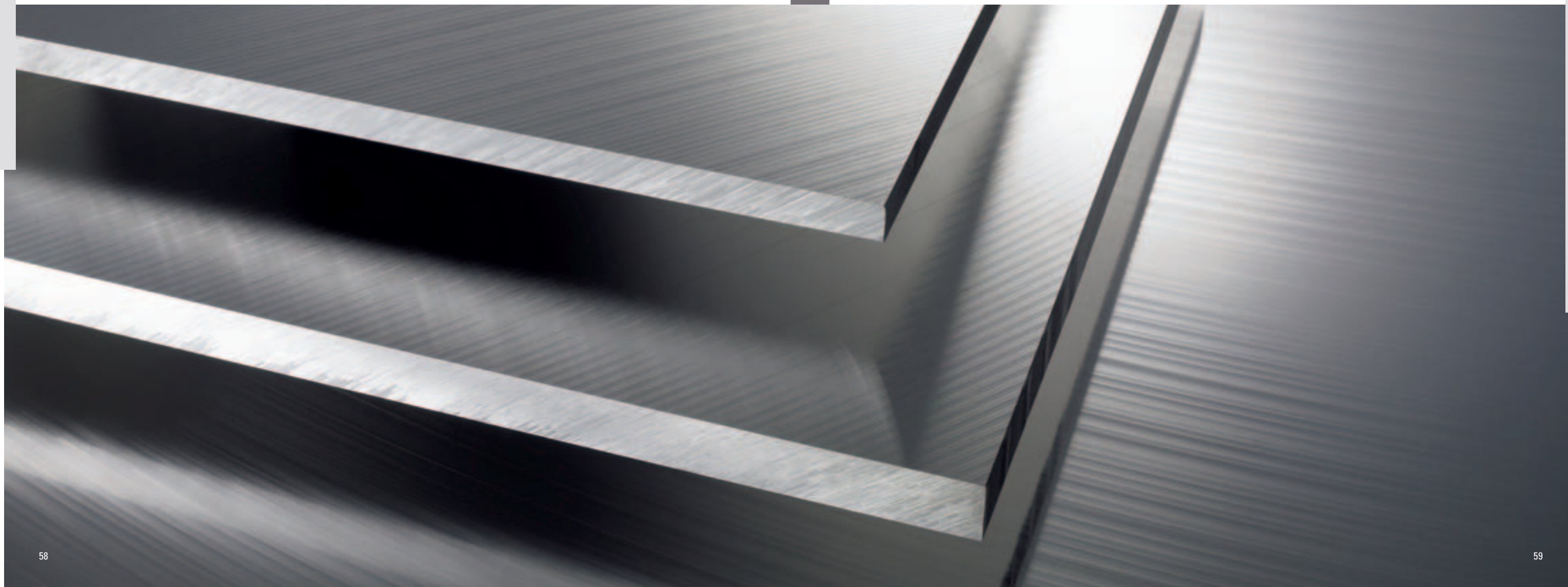
- ◆ raw
- ◆ anodised
- ◆ coated
- ◆ thread plates

### Plates

- ◆ cut all sides
- ◆ casted
- ◆ rolled
- ◆ milled

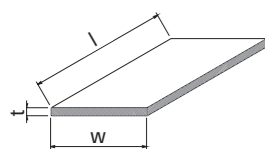
## SHEETS / PLATES

Aluminium	60
Brass	68
Copper	70
Bronze	71





Sheets, cold-rolled



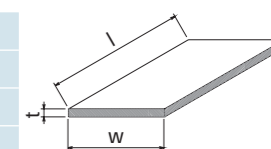
cold-rolled, in standard formats

EN-Number	AW-1050A		AW-2017A	AW-5083	AW-5754		AW-6082	
EN-Alloy	Al99,5		AlCu4MgSi(A)	AlMg4,5Mn0,7	AlMg3		AlSi1MgMn	
EN-Temper	H14/H24	H111	T4/T451	O/H111	H12/H22	H111	T6/T651	
DIN-Number	3.0255		3.1325	3.3547	3.3535		3.2315	
DIN-Alloy	Al99,5		AlCuMg1	AlMg4,5Mn	AlMg3		AlMgSi1	
DIN-Temper	F11/G11	W 7	F39	W28	F22/G22	W19	F31	
Dimension t x w x l (mm)	Weight (~ kg/Sheet)							
0,3	1000	2000	1,65	●	○			
0,3	1250	2500	2,58	○	○			
0,3	1500	3000	3,71	○	○			
0,5	1000	2000	2,75	●	○			
0,5	1250	2500	4,30	○	○			
0,5	1500	3000	6,19	○	○			
0,8	1000	2000	4,40	●	●			
0,8	1250	2500	6,88	○	○			
0,8	1500	3000	9,90	○	○			
1	1000	2000	5,50	●	●	●	●	●
1	1250	2500	8,59	●	●	●	●	○
1	1500	3000	12,38	●	●	○	●	○
1,2	1000	2000	6,60	●	●	●	○	○
1,2	1250	2500	10,31	●	●	○	●	○
1,2	1500	3000	14,85	●	●	○	●	○
1,5	1000	2000	8,25	●	●	●	●	●
1,5	1250	2500	12,89	●	●	●	●	○
1,5	1500	3000	18,56	●	●	○	●	○
2	1000	2000	11,00	●	●	●	●	●
2	1250	2500	17,19	●	●	●	●	○
2	1500	3000	24,75	●	●	○	●	○
2,5	1000	2000	13,75	●	●	●	○	○
2,5	1250	2500	21,48	●	●	●	○	○
2,5	1500	3000	30,94	●	●	○	●	○
3	1000	2000	16,50	●	●	●	●	●
3	1250	2500	25,78	●	●	●	●	○
3	1500	3000	37,13	●	●	○	●	○
4	1000	2000	22,00	●	●	●	●	●
4	1250	2500	34,38	●	●	●	●	○
4	1500	3000	49,50	●	●	○	●	○
5	1000	2000	27,50	●	●	●	●	●
5	1250	2500	42,97	●	●	○	●	○
5	1500	3000	61,88	●	●	○	●	○
6	1000	2000	33,00	●	○	●	●	●
6	1250	2500	51,56	○	○	○	●	○
6	1500	3000	74,25	○	○	○	●	○

All thicknesses in alloy 1050A and 5754 are also available with protection film.

- EN 573-3 Chemical composition
- EN 485-1 Technical conditions for inspection and delivery
- EN 485-2 Mechanical properties
- EN 485-4 Tolerances on dimensions and form

Sheets, cold-rolled, anodised, coated

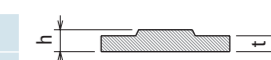


cold-rolled, anodised, coated, in standard formats

EN-Number	AW-5005A		EN-Number	AW-5005A							
EN-Alloy	AlMg1		EN-Alloy	AlMg1							
EN-Temper	H14/H24		EN-Temper	H14/H24							
DIN-Number	3.3315		DIN-Number	3.3315							
DIN-Alloy	AlMg1		DIN-Alloy	AlMg1							
DIN-Temper	F15/G15		DIN-Temper	F15/G15							
Dimension t x w x l (mm)	Weight (~ kg/Sheet)		Dimension t x w x l (mm)	Weight (~ kg/Sheet)							
1	1000	2000	5,50	●	○	2	1500	3000	24,75	●	●
1	1250	2500	8,60	○	○	2,5	1000	2000	13,75	●	○
1	1500	3000	12,40	○	○	2,5	1250	2500	21,50	●	○
1,5	1000	2000	8,25	●	●	2,5	1500	3000	30,90	●	○
1,5	1250	2500	12,90	○	●	3	1000	2000	16,50	●	○
1,5	1500	3000	18,60	●	●	3	1250	2500	25,80	●	○
2	1000	2000	11,00	●	●	3	1500	3000	37,15	●	○
2	1250	2500	17,20	●	●						

- EN 573-3 Chemical composition
- EN 1386 Technical conditions for inspection and delivery
- EN 1386 Mechanical properties
- EN 1386 Tolerances on dimensions and form

Tread plates, hot-rolled



hot-rolled, in standard formats

EN-Number	AW-5754		EN-Number	AW-5754							
EN-Alloy	AlMg3		EN-Alloy	AlMg3							
EN-Temper	H114		EN-Temper	H114							
DIN-Number	3.3535		DIN-Number	3.3535							
DIN-Alloy	AlMg3		DIN-Alloy	AlMg3							
DIN-Temper	W19		DIN-Temper	W19							
Dimension t/h x w x l (mm)	Weight (~ kg/Sheet)		Dimension t/h x w x l (mm)	Weight (~ kg/Sheet)							
1,5/2,0	1000	2000	9,1	○	○	3,5/5,0	1000	2000	20,6	●	●
1,5/2,0	1250	2500	15,2	●	○	3,5/5,0	1250	2500	32,1	●	●
1,5/2,0	1500	3000	21,2	○	○	3,5/5,0	1500	3000	46,3	●	●
2,5/4,0	1000	2000	15,2	●	●	5,0/6,5	1000	2000	28,7	●	●
2,5/4,0	1250	2500	23,8	●	●	5,0/6,5	1250	2500	44,9	●	●
2,5/4,0	1500	3000	34,2	●	●	5,0/6,5	1500	3000	64,5	●	●
3,0/4,5	1000	2000	18,0	●	●	8,0/9,5	1000	2000	44,9	●	●
3,0/4,5	1250	2500	28,0	●	●	8,0/9,5	1250	2500	70,2	●	●
3,0/4,5	1500	3000	40,3	●	●	8,0/9,5	1500	3000	101,0	●	●



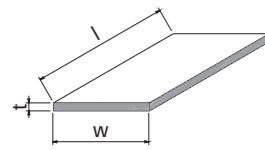
Two bars



Five bars

- EN 573-3 Chemical composition
- EN 1386 Technical conditions for inspection and delivery
- EN 1386 Mechanical properties
- EN 1386 Tolerances on dimensions and form

## Plates, hot-rolled

hot-rolled,  
in standard formats

EN-Number	AW-2017A	AW-5083	AW-5754	AW-6082	AW-7075
EN-Alloy	AlCu4MgSi(A)	AlMg4,5Mn0,7	AlMg3	AlSi1MgMn	AlZn5,5MgCu
EN-Temper	T451	O/H111	O/H111	T651	T651
DIN-Number	3.1325	3.3547	3.3535	3.2315	3.4365
DIN-Alloy	AlCuMg1	AlMg4,5Mn	AlMg3	AlMgSi1	AlZnMgCu1,5
DIN-Temper	F35-F39	W25-W28	W19	F27-F29	F36-F54
Dimension t x w x l (mm)	Weight (~ kg/Sheet)				
8 1000 2000	44	●	●	●	●
8 1250 2500	69	●	●	●	●
8 1500 3000	99	●	●	●	●
10 1000 2000	55	●	●	●	●
10 1250 2500	86	●	●	●	●
10 1500 3000	124	●	●	●	●
12 1000 2000	66	●	●	●	●
12 1250 2500	103	●	●	○	●
12 1500 3000	149	●	●	●	●
15 1000 2000	83	●	●	●	●
15 1250 2500	129	●	●	●	●
15 1500 3000	186	●	●	●	●
20 1000 2000	110	●	●	●	●
20 1250 2500	172	●	●	●	●
20 1500 3000	248	●	●	●	●
25 1500 3000	309	●	●	●	●
30 1500 3000	371	●	●	●	●
35 1500 3000	433	●	●	●	●
40 1500 3000	495	●	●	●	●
45 1500 3000	557	○	●	○	●
50 1500 3000	619	●	●	●	●
55 1500 3000	681	○	●	○	○
60 1500 3000	743	●	●	●	●
65 1500 3000	804	○	○	○	●
70 1500 3000	866	●	●	●	●
80 1500 3000	990	●	●	●	●
90 1500 3000	1114	●	●	○	●
100 1500 3000	1238	●	●	●	●
110 1500 3000	1361	○	●	●	●
120 1500 3000	1485	○	●	●	●
130 1500 3000	1609	○	●	●	●
140 1500 3000	1733	○	●	●	●
150 1500 3000	1856	○	●	●	●
160 1000 2000	880	○	●	●	●
180 1000 2000	990	○	●	○	●
200 1000 2000	1100	○	●	○	●

HOKO-TOL

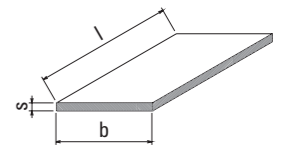
Our delivery programme also includes high-strength plates of special alloy EN AW-7050 "HOKO-TOL" (on basis AlZnMgCu, technical data sheet on request).

Tolerances for blanks of plates see technical data sheet (pages 66/67).

EN 573-3	Chemical composition	EN 485-2	Mechanical properties
EN 485-1	Technical conditions for inspection and delivery	EN 485-3	Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request

## Plates, milled

milled,  
in standard formats

Product	RASCH-PLAN	UNIDAL®
EN-Number	AA-5083	AA-7019
EN-Alloy	AlMg4,5Mn0,7	AlZn4Mg2Mn
EN-Temper	casted	T651
DIN-Number	3.3547	–
DIN-Alloy	AlMg4,5Mn	–
DIN-Temper	casted	hot-rolled
Thickness (mm)	≥ 5	≥ 10
Formats (~ mm)	1300/1500 x 3000	1500 x 3000
Product specification	precision plates, milled both sides, coated with protection film on both sides	high-strength rolled precision plates, milled both sides, coated with protection film on both sides

EN 573-3 Chemical composition (for RASCH-PLAN)

For detailed product information please refer to the technical data sheets (page 64/65).

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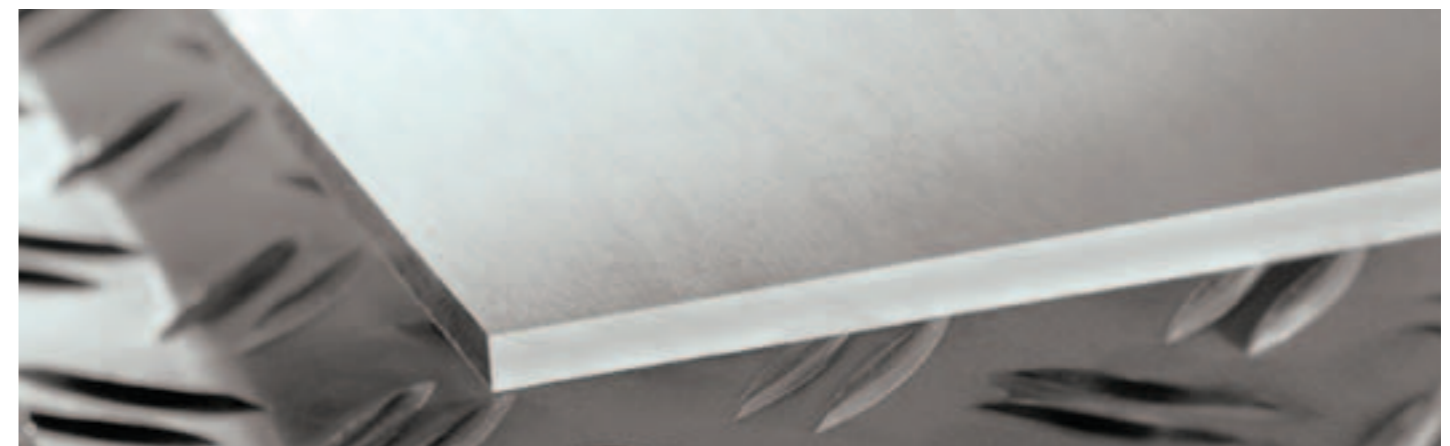
## Plates, casted

Aluminium casted plates, cut all sides:

EN-Number	AA-5083
EN-Alloy	AlMg4,5Mn0,7
EN-Temper	casted
DIN-Number	3.3547
DIN-Alloy	AlMg4,5Mn
Dimensions	all cuttings within available bar sizes

Characteristics:

- very good tensile strength properties
- stress relieved
- excellent flatness after sawing
- excellent corrosion resistance
- good anodising quality
- good welding properties
- good mechanical properties
- very good machinability



Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request



# RASCH-PLAN

## GENERAL PRODUCT INFORMATION

RASCH-PLAN are casted precision plates of aluminium alloy AA-5083. They are **milled both sides** within highly close production tolerances, coated with **protection film on both sides**. This usually avoids further additional costs for surfacing.

**Field of application:** all kind of devices, e.g. for

- precision parts
- aircraft construction
- welding
- drilling
- all kind of gauges, stencils, table and coordinate plates
- mounting plates
- base plates
- side and back walls and base plates of special machines
- applications where an extreme low stress in accordance to the tensile strength is required

## DIMENSIONS

Thickness (mm)	~ Width (mm)	~ Length (mm)
≥ 5	1300 - 1500	3000

We also manufacture individual blanks within available plate sizes.

## TECHNICAL DATA

<b>Temper</b>	casted
<b>Machinability</b>	very good (HSC excellent)
<b>Weldability (WIG / MIG / by resistance)</b>	good (with SG - AlMg4,5Mn - 5183)
<b>Protective anodizing</b>	good
<b>Decorative anodizing</b>	unsuitable
<b>Polishing properties</b>	good
<b>Corrosion resistance</b>	very good
<b>Chemical composition</b>	AA-5083 (AlMg4,5Mn0,7), DIN-Number 3.3547, according to DIN EN 573-3

## TOLERANCES

<b>Surface finish Ra</b>	≤ 0,5 µm
<b>Thickness deviation</b>	+/- 0,1 mm
<b>Flatness (relating to thickness ≥ 6 mm)</b>	Depending on thickness and size 0,15 - 0,50 mm. The flatness refers to the <b>total surface</b> of the plate and not just to linear subsections of a plate or blank. It will not be reduced proportionally to a divided size.

## TYPICAL PHYSICAL & MECHANICAL PROPERTIES (nominal values)

<b>Density</b>	2,66 g/cm <sup>3</sup>
<b>Thermal conductivity</b>	110 - 140 W (mK)
<b>Electrical conductivity</b>	16 - 19 MS/m (m/Ωmm <sup>2</sup> )
<b>Modules of elasticity</b>	~70000 N/mm <sup>2</sup>
<b>Coefficient of thermal expansion (20 - 100°C)</b>	24,2 x 10 <sup>-6</sup> /K
<b>Ultimate tensile strength R<sub>m</sub></b>	240 - 280 MPa (N/mm <sup>2</sup> )
<b>0,2% Yield strength R<sub>p0,2</sub></b>	110 - 130 MPa (N/mm <sup>2</sup> )
<b>Elongation A<sub>10</sub> %</b>	16
<b>Brinell hardness HB</b>	min. 65

# UNIDAL®

## GENERAL PRODUCT INFORMATION

UNIDAL® are high-strength rolled precision plates of aluminium alloy AA-7019. They are **milled both sides** within highly close production tolerances, coated **with protection film on both sides**. These plates offer a combination of **outstanding dimensional stability** and **high mechanical strength**. The very low internal stress drastically reduces the risk of deformation during machining, thereby reducing the need for extra operations like rough-milling, finishing or rework. High material strength also means no need for thread inserts for screwed elements, thereby further reducing the machining time and additional costs as well.

**Field of application:** all kind of devices, e.g.

- precision parts
- assembly devices
- all kind of gauges, moulding tools, rotary discs, plates for desk tops
- reference plates / transport tables / jigs / robot arms
- rear / side panels or base plates for special machinery
- applicable wherever very low internal stress combined with accordant tensile strength is required.

## DIMENSIONS

Thickness (mm)	~ Width (mm)	~ Length (mm)
≥ 10	1500	3000

We also manufacture individual blanks within available plate sizes.

## TECHNICAL DATA

<b>Temper</b>	T651 (quenched - stretched - artificially aged)							
<b>Machinability</b>	good							
<b>Weldability (WIG / MIG / by resistance)</b>	excellent							
<b>Protective / decorative anodizing</b>	excellent							
<b>Chemical composition (weight-%)</b>	<b>Si</b>	<b>Fe</b>	<b>Cu</b>	<b>Mn</b>	<b>Mg</b>	<b>Cr</b>	<b>Zn</b>	<b>Ti + Zr</b>
	max. 0,35	max. 0,45	max. 0,20	0,15	1,50	max. 0,20	3,50	0,10
				0,50	2,50		4,50	0,40

## TOLERANCES

<b>Roughness Ra</b>	max 0,40 µm (all thicknesses)
<b>Thickness tolerance</b>	+/- 0,1 mm (all thicknesses)
<b>Transverse and longitudinal flatness</b>	thickness 8 - 15 mm: max 0,50 mm/m thickness 15,1 mm - 80 mm: max 0,25 mm/m

## PHYSICAL PROPERTIES (nominal values)

<b>Density</b>	2,75 g/cm <sup>3</sup>
<b>Thermal conductivity (temper T651)</b>	135 - 150 W/mK
<b>Electrical conductivity (20°C, temper T651)</b>	19 - 23 MS/m (m/Ωmm <sup>2</sup> )
<b>Elastic modulus</b>	71000 MPa (N/mm <sup>2</sup> )
<b>Linear thermal expansion coefficient (20° - 100°C)</b>	23,6 10 <sup>-6</sup> K <sup>-1</sup>

## MECHANICAL STRENGTH (min. tensile properties, temper T651)

Thickness [mm]	R <sub>m</sub> [MPa]	R <sub>p0,2</sub> [MPa]	A50 [%]
> 7,9 - 15	410	350	8
> 15 - 35	400	340	8
> 35 - 60	400	340	8
> 60 - 80	390	330	8

## TYPICAL STRENGTH FOR VARIOUS THICKNESSES

Thickness [mm]	R <sub>m</sub> [MPa]	R <sub>p0,2</sub> [MPa]	A50 [%]	HB
> 7,9 - 15	420	370	13,0	125
> 15 - 35	410	355	12,5	125
> 35 - 60	415	365	12,0	130
> 60 - 80	410	360	10,5	125

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## Blanks of aluminium plates

### Tolerances on thickness, evenness, cutting and angles for blanks of aluminum plates

**Deviation of thickness:**

For rolled plates the **EN 485-3** applies in its current version. No influence by the sawing process.

**Deviation of evenness:**

For plates in standard formats the evenness tolerances in **EN 485-3** apply. For blanks of plates no regulations do exist yet.

Since these tolerances cannot be influenced by trade, the definition of evenness tolerances for blanks **is based on EN 485-3**.

In **EN 485-3** the definition is expressed as the percentage of the length L and / or the width W and / or the measured chord I.

$D_{max}$  = Total deviation in per cent.

#### Non-hardenable aluminium alloys (alloy group 1000, 3000 and 5000)

Nominal thickness (mm) More than up to	Total deviation / partial deviation in % on measuring length $D_{max} / L$	Partial deviation in % (with a chord I of at least 300 mm) $D_{max} / I$
6,0 50,0	0,4 (4 mm / 1000 mm)	0,4 at least 1,2 mm
50,0 200	0,4 (4 mm / 1000 mm)	On appointment

#### Hardenable aluminium alloys (alloy group 2000, 6000 and 7000)

Nominal thickness (mm) More than up to	Total deviation / partial deviation in % on measuring length $D_{max} / L$	Partial deviation in % (with a chord I of at least 300 mm) $D_{max} / I$
6,0 50,0	0,5 (5 mm / 1000 mm)	0,5 at least 1,5 mm
50,0	0,5 (5 mm / 1000 mm)	On appointment

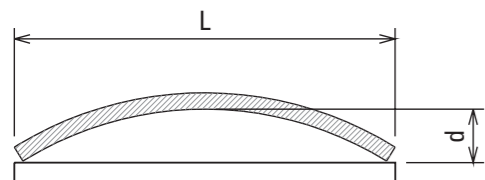
*Example:* EN AW-5083, plate thickness 20 mm, blank dimensions 550 x 890 mm.

Permissible unevenness:

0,4 % of the length => 890 mm x 0,4 % = 3,56 mm.

0,4 % of the width => 550 mm x 0,4 % = 2,2 mm.

This measurement is accomplished by the help of a straight, light ruler and a feeler gauge. The plate rests on a horizontal level surface with the concave side arranged upwards.



Legend:

d = Deviation of evenness

L = Blank width or length

## Blanks of aluminium plates

### Tolerances for widths and lengths of blanks

Since the definition of cutting tolerances is not part of the EN standards, blanks of plates are manufactured following the standards of the general engineering tolerances **DIN ISO 2768-m**.

Nominal size range (mm)	< 400	≥ 400 up to < 1000	≥ 1000 up to < 2000	≥ 2000 up to < 4000
Tolerance zone	1,0 mm	1,6 mm	2,5 mm	4,0 mm

The tolerance zone can be classified freely, e.g. instead of 1,0 mm it can be +/- 0,5 mm, or -0,3/+0,7 mm.

If not predetermined differently, blanks are always produced within plus tolerances. Special tolerances must be agreed upon before contract placing and are to be confirmed separately.

### Angle tolerances for blanks

Since the definition of angle tolerances is not part of the EN rules, blanks are manufactured following the standards of the general engineering tolerances **DIN ISO 2768-m**.

Nominal dimension range = shorter side length (mm)	< 10	≥ 10 up to < 50	≥ 60 up to < 120	≥ 120 up to < 400	≥ 400
permissible deviation (°) for shorter side length	+/- 1	+/- 0,5	+/- 0,33	+/- 0,17	+/- 0,08
permissible deviation (mm) for shorter side length per 100 mm length	1,75	0,87	0,58	0,29	0,15

The reference edge is always the longer side; nominal dimension is always the shorter side.

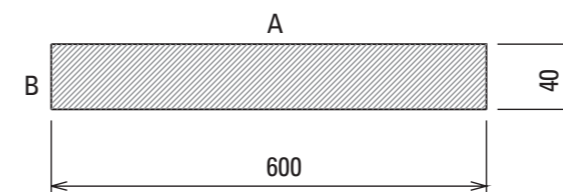
*Example:* Blank dimensions 600 x 40 mm.

Edge A = reference edge (longer side), edge B = nominal dimension (shorter side).

*Calculation of the tolerable deviation for side B:*

Permissible deviation (mm) for nominal dimension 40 mm (per 100 mm length) x nominal dimension 40 mm / 100 mm.

Result from above table values: 0,87 mm x 0,4 = 0,35 mm as a tolerable angle tolerance.

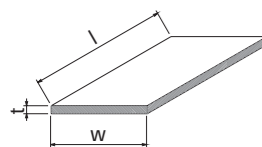


**Please feel free to contact us for your current requirements or further technical information!**

**Our service team will be glad to help you and is looking forward to receiving your enquiries and orders!**



## Sheets, cold-rolled

cold-rolled,  
in standard formats

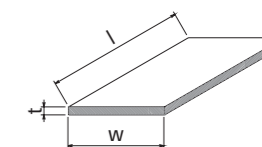
		EN-Number	CW508L	CW508L	CW612N
		EN-Alloy	CuZn37	CuZn37	CuZn39Pb2
		EN-Temper	R350	R300	R490
		DIN-Number	2.0321	2.0321	2.0380
		DIN-Alloy	CuZn37	CuZn37	CuZn39Pb2
		DIN-Temper	F37	F30	F49
Dimension t x w x l (mm)		Weight (~ kg/Sheet)			
0,2	600	2000	2,02	●	
0,3	600	2000	3,02	●	
0,4	600	2000	4,03	●	
0,5	600	2000	5,04	●	●
0,6	600	2000	6,05	●	
0,7	600	2000	7,06	●	
0,8	600	2000	8,06	●	
1	600	2000	10,1	●	●
1	1000	2000	16,8	●	●
1,2	600	2000	12,1	●	
1,5	600	2000	15,1		●
1,5	1000	2000	25,2	●	●
2	600	2000	20,2	●	●
2	1000	2000	33,6	●	
2,5	600	2000	25,2		●
2,5	1000	2000	42,0	●	
3	600	2000	30,2	●	●
3	1000	2000	50,4	●	●
4	600	2000	40,3		●
4	1000	2000	67,2	●	
5	600	2000	50,4		●
5	1000	2000	84,0	●	
6	600	2000	60,5		●*
6	1000	2000	100,8	●	
7	600	2000	70,6		●*

EN 1652 Chemical composition  
EN 1652 Technical conditions for inspection and delivery

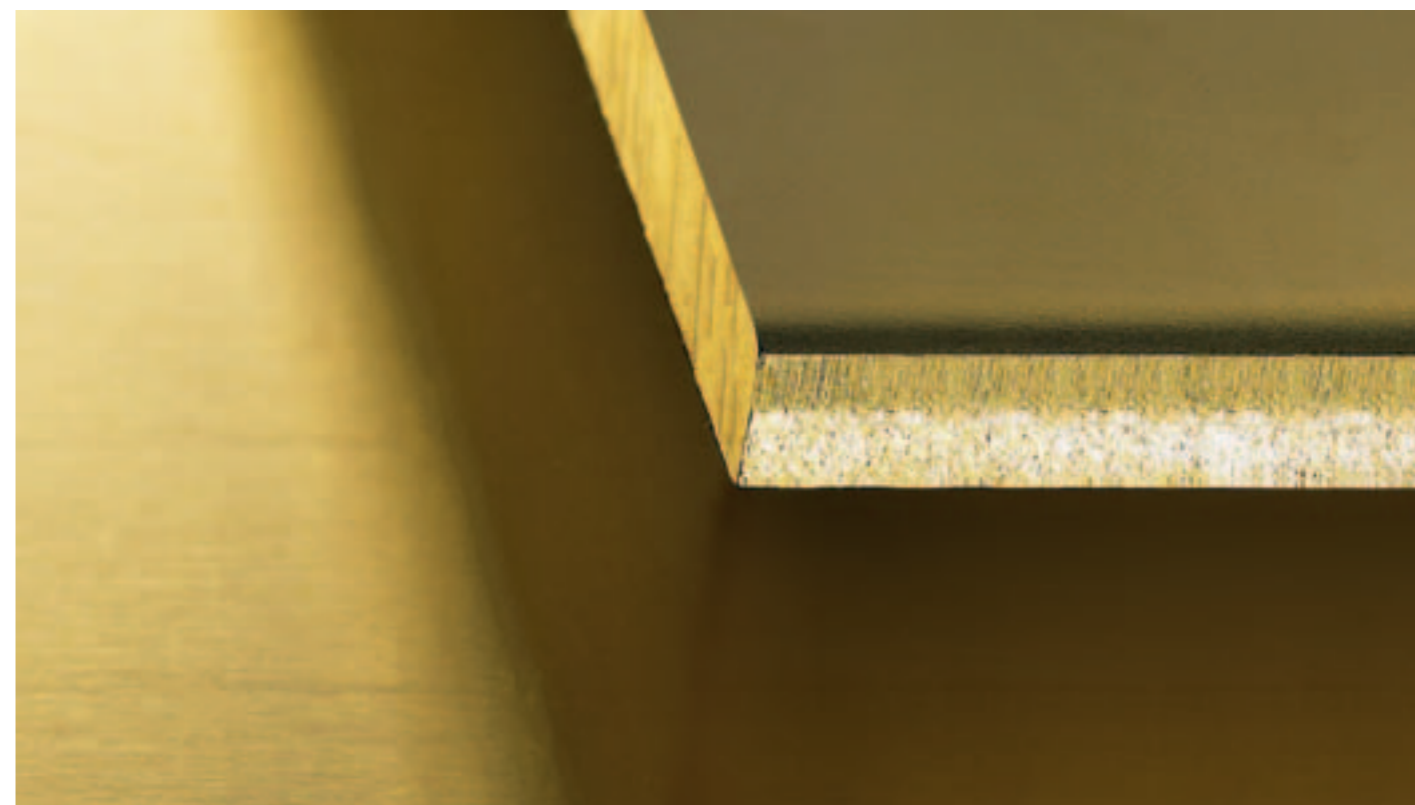
EN 1652 Mechanical properties  
EN 1652 Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request \* following EN 1652

## Plates, hot-rolled

hot-rolled,  
in standard formats

		EN-Number	CW612N	
		EN-Alloy	CuZn39Pb2	
		EN-Temper	as rolled	
		DIN-Number	2.0380	
		DIN-Alloy	CuZn39Pb2	
		DIN-Temper	as rolled	
Dimension t x w x l (mm)		Weight (~ kg/Sheet)		
12	1000	2000	202	●
15	1000	2000	252	●
20	1000	2000	336	●
25	1000	2000	420	●
30	1000	2000	504	●
40	1000	2000	672	●
50	1000	2000	840	●
60	1000	2000	1008	●
70	1000	2000	1176	●
80	1000	2000	1344	●
100	1000	2000	1680	●
120	1000	2000	2016	●
150	1000	2000	2520	●

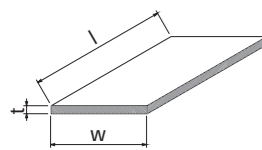


EN 1652 Chemical composition  
EN 1652 Technical conditions for inspection and delivery

EN 1652 Mechanical properties  
EN 1652 Tolerances on dimensions and form

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request

## Sheets, cold-rolled

cold-rolled,  
in standard formats

	EN-Number	CW024A	CW024A
	EN-Alloy	Cu-DHP	Cu-DHP
	EN-Temper	R220	R240
	DIN-Number	2.0090	2.0090
	DIN-Alloy	SF-Cu	SF-Cu
	DIN-Temper	soft	half-hard
Dimension t x w x l (mm)	Weight (~ kg/Sheet)		
0,5	1000 2000	8,9	●
0,6	1000 2000	10,7	●
0,7	1000 2000	12,5	●
0,8	1000 2000	14,2	●
0,8	1250 2500	22,3	●
1	1000 2000	17,8	●
1	1250 2500	27,8	●
1,5	1000 2000	26,7	●
1,5	1250 2500	41,7	●
2	1000 2000	35,6	●
2,5	1000 2000	44,5	●
3	1000 2000	53,4	●
4	1000 2000	71,2	●
5	1000 2000	89,0	●
6	1000 2000	106,8	●
8	1000 2000	142,4	●

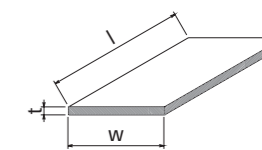
EN 1652 Chemical composition

EN 1652 Technical conditions for inspection and delivery

EN 1652 Mechanical properties

EN 1652 Tolerances on dimensions and form

## Sheets, cold-rolled

cold-rolled,  
in standard formats

	EN-Number	CW452K
	EN-Alloy	CuSn6
	EN-Temper	H180
	DIN-Number	2.1020
	DIN-Alloy	CuZn39Pb2
	DIN-Temper	hard
Dimension t x w x l (mm)	Weight (~ kg/Sheet)	
0,2	300 2000	1,06
0,25	300 2000	1,32
0,3	300 2000	1,58
0,4	300 2000	2,11
0,5	300 2000	2,64
0,8	300 2000	4,22
1,0	300 2000	5,28
1,5	300 2000	7,92
3,0	300 2000	15,84
4,0	300 2000	21,12
5,0	300 2000	26,40

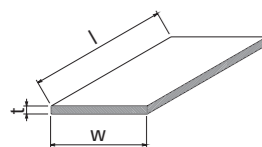
EN 1652 Chemical composition

EN 1652 Technical conditions for inspection and delivery

EN 1652 Mechanical properties

EN 1652 Tolerances on dimensions and form

## Plates, hot-rolled

hot-rolled,  
in standard formats

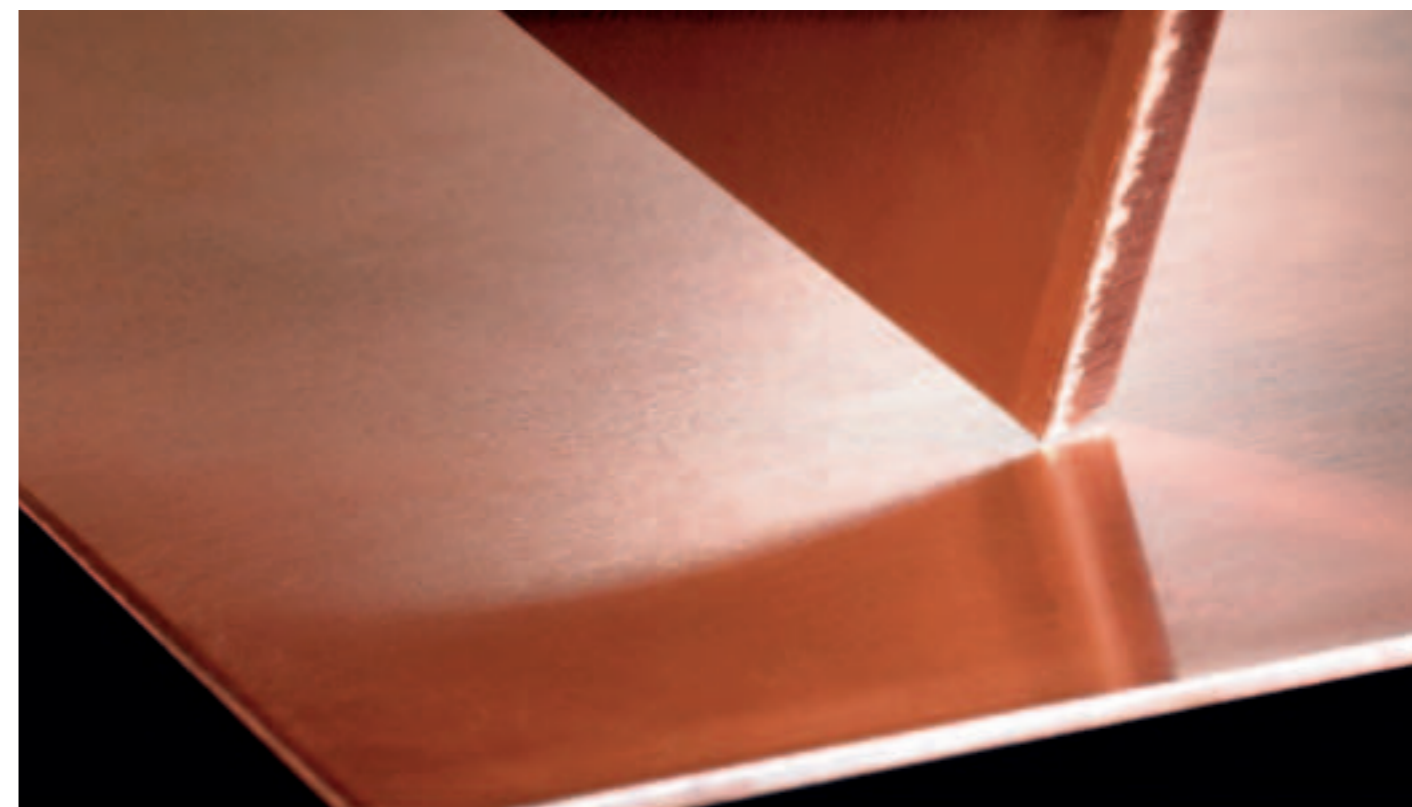
	EN-Number	CW021A
	EN-Alloy	Cu-HCP
	EN-Temper	as rolled
	DIN-Number	2.0070
	DIN-Alloy	SE-Cu
	DIN-Temper	as rolled
Dimension t x w x l (mm)	Weight (~ kg/Sheet)	
10	1000 2000	178
12	1000 2000	214
15	1000 2000	267
20	1000 2000	356
25	1000 2000	445
30	1250 2500	834
40	1000 2000	712
50	1250 2500	1391
60	1000 2000	1068
70	1250 2500	1947
80	1000 2000	1424
100	1000 2000	1780
130	1000 2000	2314
150	1000 2000	2670

following EN 13599 Chemical composition

following EN 13599 Technical conditions for inspection and delivery

following EN 13599 Mechanical properties

following EN 13599 Tolerances on dimensions and form



EN 1652 Chemical composition

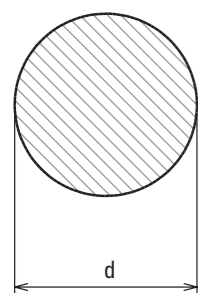
EN 1652 Technical conditions for inspection and delivery

EN 1652 Mechanical properties

EN 1652 Tolerances on dimensions and form



Round bars, casted



casted, in manufacturing lengths

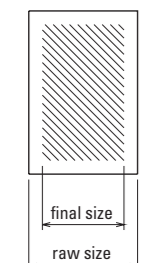
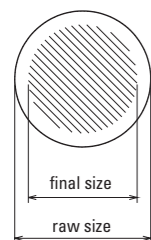
EN-Number	JL1040	JS1030	EN-Number	JL1040	JS1030
EN-Alloy	GJL-250	GJS-400-15	EN-Alloy	GJL-250	GJS-400-15
EN-Temper	casted	casted	EN-Temper	casted	casted
DIN-Number	0.6025	0.7040	DIN-Number	0.6025	0.7040
DIN-Alloy	GG-25	GGG-40	DIN-Alloy	GG-25	GGG-40
DIN-Temper	casted	casted	DIN-Temper	casted	casted
Dimension d (mm)	Weight (~ kg/m)		Dimension d (mm)	Weight (~ kg/m)	
25	3,5	●	180	183,1	● ●
30	5,1	●	190	204,0	● ●
35	6,9	● ●	200	226,1	● ●
40	9,0	● ●	210	249,3	● ●
45	11,4	● ●	220	273,6	● ●
50	14,1	● ●	230	299,0	● ●
55	17,1	● ●	240	325,6	● ●
60	20,3	● ●	250	353,3	● ●
65	23,9	● ●	260	382,1	● ●
70	27,7	● ●	270	412,0	● ●
75	31,8	● ●	280	443,1	● ●
80	36,2	● ●	290	475,3	● ●
85	40,8	● ●	300	508,7	● ●
90	45,8	● ●	310	543,2	● ●
95	51,0	● ●	320	578,8	● ●
100	56,5	● ●	330	615,5	● ●
105	62,3	● ●	340	653,4	● ●
110	68,4	● ●	350	692,4	● ●
120	81,4	● ●	360	732,5	● ●
130	95,5	● ●	380	816,1	● ●
140	110,8	● ●	400	904,3	● ●
150	127,2	● ●	450	1144,5	● ●
160	144,7	● ●	500	1413,0	● ●
170	163,3	● ●			

EN 1561 Chemical composition (for JL-1040)

EN 1563 Chemical composition (for JS-1030)

Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request

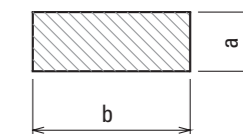
Machining allowances grey cast iron



As a result of the thermal shock during the production process, the hard casting skin of the material contains cementite (iron carbide). Due to the production method, this area can also contain further defects. We can only guarantee a proper structure considering the following machining allowances.

Product	Ø Raw size (mm)	Allowance Ø raw size (mm)	
		Lamellar graphite	Spheroidal graphite
Round bars	25 - 60	8,0	10,0
	65 - 100	10,0	12,0
	105 - 200	10,0	14,0
	210 - 350	16,0	20,0
	360 - 450	20,0	20,0
Square bars and flat bars	20 - 60	8,0	12,0
	65 - 150	10,0	14,0
	155 - 200	16,0	18,0
	210 - 350	20,0	20,0
	360 - 520	20,0	24,0

Flat bars, casted

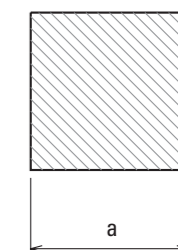


casted, in manufacturing lengths

EN-Number	JL1040	EN-Number	JL1040
EN-Alloy	GJL-250	EN-Alloy	GJL-250
EN-Temper	casted	EN-Temper	casted
DIN-Number	0.6025	DIN-Number	0.6025
DIN-Alloy	GG-25	DIN-Alloy	GG-25
DIN-Temper	casted	DIN-Temper	casted
Dimension b x a (mm)	Weight (~ kg/m)	Dimension b x a (mm)	Weight (~ kg/m)
60 30	13,0	120 90	77,8
60 40	17,3	130 50	46,8
70 40	20,2	130 60	56,2
70 50	25,2	140 70	70,6
80 40	23,0	140 90	90,7
80 60	34,6	140 100	100,8
90 50	32,4	140 110	110,9
90 80	51,8	150 120	129,6
100 40	28,8	160 50	57,6
100 50	36,0	160 80	92,2
100 60	43,2	160 100	115,2
100 70	50,4	160 120	138,2
100 80	57,6	160 140	161,3
110 50	39,6	180 90	116,6
110 60	47,5	180 150	194,4
110 80	63,4	300 220	475,2
120 80	69,1		

EN 1561 Chemical composition

Square bars, casted



casted, in manufacturing lengths

EN-Number	JL1040	EN-Number	JL1040
EN-Alloy	GJL-250	EN-Alloy	GJL-250
EN-Temper	casted	EN-Temper	casted
DIN-Number	0.6025	DIN-Number	0.6025
DIN-Alloy	GG-25	DIN-Alloy	GG-25
DIN-Temper	casted	DIN-Temper	casted
Dimension a (mm)	Weight (~ kg/m)	Dimension a (mm)	Weight (~ kg/m)
30	6,5	110	87,1
40	11,5	120	103,7
50	18,0	130	121,7
55	21,8	140	141,1
60	25,9	150	162,0
65	30,4	160	184,3
70	35,3	170	208,1
75	40,5	180	233,3
80	46,1	200	288,0
90	58,3	300	648,0
100	72,0		

EN 1561 Chemical composition

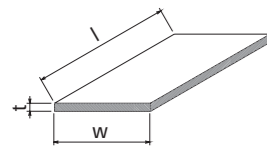
Further alloys, dimensions and cuttings on enquiry. ● on stock ○ on request





Plates

Plates



extruded/planed/casted/  
glass fibre-reinforced,  
in standard formats

PA66 glass fibre-reinforced  
from thickness 30 mm in  
width 500 mm.

			Material code				PA6		PA6		
			DIN-Number				7728		7728		
			Material				Polyamide 6		Polyamide 6		
			DIN-Tolerances				16983		-		
			Condition of material				extruded		casted		
			Colour				natural		black		
Dimension t x w x l (mm)				Weight (~ kg/Sheet)							
	PA6	POM	PE1000	PVC							
8	1000	2000	18,2	22,6	14,9	22,7	●	●			
8	600	3000	16,4	20,3	13,4	20,4	●	●			
10	1000	2000	22,8	28,2	18,6	28,4	●	●	●	●	
10	600	3000	20,5	25,4	16,7	25,6	●	●			
12	1000	2000	27,4	33,8	22,3	34,1	●	●	●	●	
12	600	3000	24,6	30,5	20,1	30,7	●	●			
15	1000	2000	34,2	42,3	27,9	42,6			●	●	
16	1000	2000	36,5	45,1	29,8	45,4	●	●	●	●	
16	600	3000	32,8	40,6	26,8	40,9	●	●			
20	1000	2000	45,6	56,4	37,2	56,8	●	●	●	●	
20	600	3000	41,0	50,8	33,5	51,1	●	●			
25	1000	2000	57,0	70,5	46,5	71,0	●	●	●	●	
25	600	3000	51,3	63,5	41,9	63,9	●	●			
30	1000	2000	68,4	84,6	55,8	85,2	●	●	●	●	
30	600	3000	61,6	76,1	50,2	76,7	●	●			
36	1000	2000	82,1	101,5	67,0	102,2	●				
36	600	3000	73,9	91,4	60,3	92,0	●				
40	1000	2000	91,2	112,8	74,4	113,6	●	●	●	●	
40	600	3000	82,1	101,5	67,0	102,2	●	●			
45	1000	2000	102,6	126,9	83,7	127,8	●		●		
45	600	3000	92,3	114,2	75,3	115,0	●				
50	1000	2000	114,0	141,0	93,0	142,0	●		●	●	
50	600	3000	102,6	126,9	83,7	127,8	●				
60	1000	2000	136,8	169,2	111,6	170,4	●		●	●	
60	600	3000	123,1	152,3	100,4	153,4	●				
70	1000	2000	159,6	197,4	130,2	198,8	●		●	●	
70	600	3000	143,6	177,7	117,2	178,9	●				
80	1000	2000	182,4	225,6	148,8	227,2	●		●	●	
80	600	3000	164,2	203,0	133,9	204,5	●				
100	1000	2000	228,0	282,0	186,0	284,0	●		●	●	
100	600	3000	205,2	253,8	167,4	255,6	●				

We also supply you with different formats/dimensions of the material PEEK (Polyetheretherketone).

PA66	POM-C		PE1000		PVC
7728	7728		7728		7728
Polyamide 66	Polyoxymethylene		Polyethylene		Polyvinylchloride
-	16986		16980		-
glass fibre-reinforced	extruded		planed		extruded
black	natural	black	green	black	grey
	●	●	●	●	●
	●	●			
	●	●	●	●	●
●	●	●	○	○	●
●	●	●			
	●	●	●	●	●
	●	●			
	●	●			
●	●	●	●	●	●
	●	●			
	●	●	●	○	●
●	●	●			
	●	●	●	●	●
	●	●			
	●	●	○	○	
●	●	●			
	●	●	●	○	
●	●	●			
	●	●	○	○	
	●	●			
	●	●	○	○	
	●	●			
	●	●	○	○	
	●	●			

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Claudia Rasch, Gildo Rasch, Cordula Rasch (LTR)



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