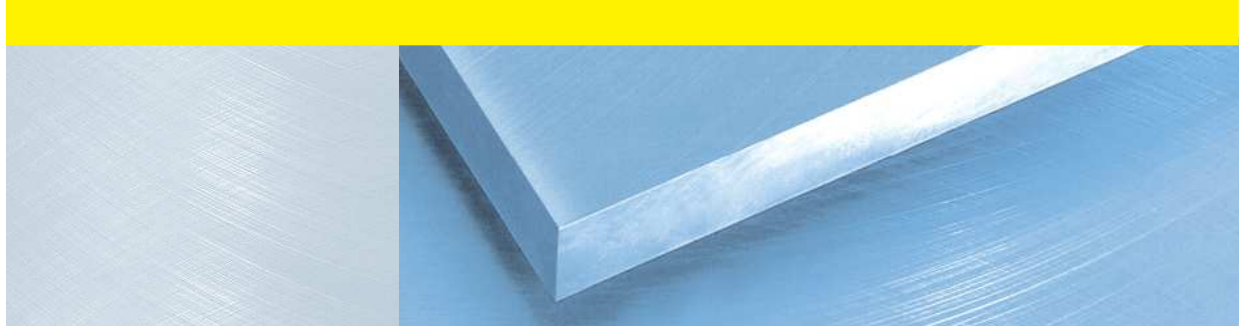


HABA Alu7075

EN AW-7075
EN AW-AlZn5.5MgCu
Material code: AlZnMgCu1.5
Material no.: 3.4365
State: T6/T651

As-rolled or milled, high-tensile aluminium rolled plates
cut to size



Finishes

Milled rolled blanks

Thickness milled Ra0.8 (N6)
tolerance +/-0.1 mm
one-sided protective film
one-sided cardboard

Parallelism

≤0.1 mm

Evenness

≤0.2 mm

As-rolled blanks

Thickness

as-rolled
tolerance +1.5/-0.5 mm
or EN 485-3/4

Parallelism

≤1 mm on the plate or
≤0.2/100 mm or
EN 485-3/4

Evenness

≤0.5 mm
or EN 485-3/4

Milled and as-rolled blanks

Length/width

Ra3.2-6.3
cut with a precision circular saw

HABA standard tolerance

nominal size +0.8/+0.3 mm

Customer-specific tolerance

within a tolerance field of 0.4 mm

We also produce other thicknesses and tolerances on request.

Technical specifications

Thickness (mm)	<50	50-100	>100
Tensile strength			
R_m (N/mm ²)	≥500	480-500	≥400
Yield strength			
$R_{p0.2}$ (N/mm ²)	≥450	390-430	≥280
Breaking strain ($L_0 = 5 d_0$)			
A_5	3-8%	≥2%	≥2%
Brinell hardness			
(HBS)	≥140	≥130	≥120
Density	2.81 kg/dm ³		
E-module	~71.000 N/mm ²		
Thermal conductivity coefficient	130-160 W/mK		
Thermal expansion coefficient	23.4 x 10 ⁻⁶ /K		
Electrical conductivity	19-23 m/Ω mm ²		
State			
	<10 mm T6		
	>10 mm T651		

Chemical composition

Mg	2.1-2.9 %	Si	≤0.4 %
Mn	≤0.3 %	Cu	1.2-2.0 %
Cr	0.18-0.28 %	Ti	≤0.2 %
Fe	≤0.5 %	Zn	5.1-6.1 %
Ti+Zr	<0.25 %	Rest	≤0.15 %

Surface treatment

Decorative anodisation:	unsuitable
Protective anodisation:	good
Paintwork, coating:	good
Galvanic coating:	good
Chemical nickel coating:	good

Material in use

Vehicle construction
Jig manufacturing
Mechanical engineering
Toolmaking
Mould construction
Aircraft construction

Applications

Base plates
Pattern plates
Punches
Machined and engineered parts
of all kinds

Properties

very high tensility and hardness
very good machinability
limited weldability

Instructions

Decreasing rigidity and hardness
in the core of thick plates.
Above 150 mm thickness,
change to G-Alu340 or a naturally
hardened 5083 plate.

