

# HABA Alu6082

As-rolled or milled rolled aluminium plates  
cut to size

Alu6082 is an artificially aged rolled plate with a precisely milled or rolled surface. The material is very easy to work and has medium to good dimensional stability. It has outstanding corrosion resistance against weather and seawater.

## FINISHES

Thickness  
Toleranz  
Protective film  
Cardboard  
Parallelism  
Evenness

## MILLED ROLLED BLANKS

precisely milled Ra0.8 (N6)  
+/-0.1 mm  
one-sided  
one-sided  
≤0.05 mm  
≤0.2 mm

## AS-ROLLED BLANKS

Thickness  
Parallelism  
Evenness

as-rolled EN 485-3/4  
EN 485-3/4 (≤0.2/100)  
≤0.5 mm

## MILLED AND AS-ROLLED BLANKS

Length/width  
HABA standard tolerance  
Customer-specific tolerance

Ra3.2-6.3 cut with a  
precision circular saw  
nominal size +0.8/+0.3 mm  
within a tolerance field of 0.4 mm

We also produce other thicknesses and tolerances on request.

## TECHNICAL SPECIFICATIONS

Tensile strength  $R_m$  275-350 (N/mm<sup>2</sup>)  
Yield strength  $R_{p0.2}$  240-310 (N/mm<sup>2</sup>)  
Breaking strain ( $L_o = 5 d_o$ )  $A_5$  6-10 %  
Brinell hardness (HBS) 84-104  
Density 2.7 kg/dm<sup>3</sup>  
E-module ~70.000 N/mm<sup>2</sup>  
Thermal conductivity coefficient 170-220 W/mK  
Thermal expansion coefficient  $23.4 \times 10^{-6}/K$   
Electrical conductivity 24-32 m/Ω mm<sup>2</sup>  
State T6 <10 mm  
T651 >10 mm

## CHEMICAL COMPOSITION

Magnesium	Mg	0.60-1.20 %	Copper	Cu	≤0.10 %
Manganese	Mn	0.40-1.00 %	Titanium	Ti	≤0.10 %
Chromium	Cr	≤0.25 %	Zinc	Zn	≤0.20 %
Iron	Fe	≤0.50 %	Other elements together		≤0.15 %
Silicium	Si	0.70-1.30 %	Other elements individually		≤0.15 %

DIN Material no.	3.2315
Designation	EN AW-6082 EN AW-AISI1MgMn
Material code	AlMgSi1
State	T6/T651

## MATERIAL IN USE

Apparatus construction  
Mechanical engineering  
Jig manufacturing  
Vehicle construction  
Special purpose machinery  
Plant construction

## APPLICATIONS

Base plates  
Side walls  
Vehicle parts  
Blow and foaming moulds

## PROPERTIES

machinability good  
dimensional stability medium - good  
MIG/TIG weldability very good  
Weatherproofness very good  
Seawater resistance very good  
Meerwasserbeständigkeit sehr gut  
Contact with foodstuffs yes

## SURFACE TREATMENT

decorative eloxadisation good  
protective anodisation very good  
galvanic coatings very suitable  
chemical nickel-plating very suitable

## INSTRUCTIONS

Use tools for working aluminium with a cutting speed >2000 m/min.

We declare that our products are not suitable for any other applications and purposes, other than those specified here and do not have other product properties than those specified here.

