

# HABA Horizontal Cast 5754

Sawn or milled aluminium casting plates | cut to size

Horizontal Cast 5754 is a naturally hardened aluminium casting plate which fulfils the most demanding machinability and dimensional stability requirements. G-Almg3 is excellent suited for decorative and technical anodizing. The special casting process is the guarantee for the homogenous join and the vacuum tightness.

## FINISHES

(on request)

Thickness

Tolerance

Thickness

tolerance

protective film

Parallelism

Evenness

Length/width

HABA standard tolerance

Customer-specific tolerance

## SAWN BLANKS

cut by band saw Ra25 (N11)

+1/0 mm

## FINELY MILLED BLANKS

precisely milled Ra0.8 (N6)

+/-0.05 mm

on both sides

≤0.1 mm

≤0.2 mm

## MILLED AND SAWN BLANKS

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

Ultimate tensile strength	$R_m$	190-230 (N/mm <sup>2</sup> )
Yield tensile strength	$R_{p0.2}$	≥80 (N/mm <sup>2</sup> )
Elongation at break (guaranteed)	( $L_0 = 5 d_0$ ) $A_5$	≥12 %
Elongation at break (typical)	( $L_0 = 5 d_0$ ) $A_5$	≥20 %
Brinell hardness	(HBS)	~50
Density		2.66 kg/dm <sup>3</sup>
Elastic modulus		70.500 N/mm <sup>2</sup>
Thermal conductivity		140-160 W/mK
Thermal expansion coefficient		24 x 10 <sup>-6</sup> /K
Electrical conductivity		20-23 m/Ω mm <sup>2</sup>
State		homogenised (O3)

## CHEMICAL COMPOSITION

Magnesium	Mg	2.60-3.60 %	Copper	Cu	≤0.10 %
Manganese	Mn	≤0.50 %	Titanium	Ti	≤0.15 %
Chromium	Cr	≤0.30 %	Zinc	Zn	≤0.20 %
Iron	Fe	≤0.40 %	Other elements together		≤0.15 %
Silicium	Si	≤0.40 %	Other elements individually		≤0.05 %

ALUMECO FINLAND OY  
panu.leskinen@alumeco.fi

DIN Material no.	3.3535
Designation	Cast plate, similar: EN AW-5754 EN AW-AMg3
Material code	AMg3
State	homogenised (O3)

## MATERIAL IN USE

Plant and apparatus construction

Jig manufacturing

Prototype construction

Mechanical engineering

## APPLICATIONS

Base plates

Rotary tables

Side walls

## PROPERTIES

machinability	very good
dimensional stability	great
MIG/TIG weldability	good
Weatherproofness	excellent
Seawater resistance	excellent
technical anodisation	very good
decorative anodisation	very good
Contact with foodstuffs	yes

## SURFACE TREATMENT

Decorative anodisation	excellent
Protective anodisation	excellent
Paintwork, coating	good
Galvanic coating	excellent
Chemical nickel coating	excellent

## INSTRUCTIONS

Horizontal Cast 5754 is well suited for machining. The chippings are short and break well. Use tools for working aluminium with a cutting speed >2000 m/min. Threads are produced favourably with thread moulders.

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.

