

# Cast, Two-side Milled Plates ALQAL 5083; EN 5083; EN 573-3

## Mechanical Properties

(The European standard does not specify mechanical property ranges for cast materials; the values below are typical values.)

Tensile Strength Rm (MPa)	Yield Strength Rp0.2 (MPa)	Elongation A5 (%)	Hardness HBW
<b>210-270</b>	<b>110-130</b>	<b>5-15</b>	<b>65-75</b>

## Chemical Composition according to EN 573-3 (AlMg4.5Mn0.7)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other each	Other total	Aluminium min.
0.4	0.4	0.1	0.4-1.0	4.0-4.9	0.05-0.25	0.25	0.15	0.05	0.15	Remainder

## Stock Thicknesses [mm]

4.00, 5.00, 6.00, 7.00, 8.00, 10.00, 12.00, 12.70, 14.00, 15.00, 16.00, 18.00, 19.00, 20.00, 22.00, 24.00, 25.00, 28.00, 30.00, 32.00, 35.00, 36.00, 40.00, 45.00, 50.00, 55.00, 60.00, 65.00, 70.00, 75.00, 80.00, 90.00, 100.00, 110.00, 120.00, 130.00, 140.00, 150.00

If a full plate is ordered, any thickness between 4.00 mm and 150.00 mm can be manufactured.

### Thickness Tolerance [mm]

± 0.100
on request +/-0.05 for formats 1590 x 3040 mm

### Stock Formats [mm]\*

1590 x 3040	2180 x 4040	and others
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\* Current availability of formats upon request from the sales department.

### Surface Specification

Roughness	<b>Ra=max. 0.4 µm</b>
Laser foil 0.1 mm	<b>two-side</b>

### Flatness [mm/m]

Thickness Range	Flatness
4.00-5.99 mm	<b>1.00</b>
6.00-14.99 mm	<b>0.40</b>
15.00-150.00 mm	<b>0.15</b>

### Food Contact according to EN 602

Yes
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