

# INTERNATIONAL STANDARD

**ISO**  
**6361-2**

Second edition  
1990-02-01

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## Wrought aluminium and aluminium alloy sheets, strips and plates —

### Part 2: Mechanical properties

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*Tôles, bandes et tôles épaisses en aluminium et alliages d'aluminium corroyés —*

*Partie 2: Caractéristiques mécaniques*

<https://standards.iteh.ai/catalog/standards/sist/99808edb-5866-45bc-9071-dfff790bfc9/iso-6361-2-1990>



Reference number  
ISO 6361-2 : 1990 (E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6361-2 was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*.

This second edition cancels and replaces the first edition (ISO 6361-2 : 1987), of which it constitutes a technical revision.

ISO 6361 consists of the following parts, under the general title *Wrought aluminium and aluminium alloy sheets, strips and plates*:

- *Part 1: Technical conditions for inspection and delivery*
- *Part 2: Mechanical properties*
- *Part 3: Strips — Tolerances on shape and dimensions*
- *Part 4: Sheets and plates — Tolerances on shape and dimensions*

Annexes A and B form an integral part of this part of ISO 6361.

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# Wrought aluminium and aluminium alloy sheets, strips and plates —

## Part 2: Mechanical properties

### 1 Scope

In conjunction with ISO 6361-1, this part of ISO 6361 specifies the mechanical properties of wrought aluminium and aluminium alloy sheets, strips and plates for general engineering applications.

It applies to flat rolled products.

The chemical composition of these materials is given in ISO 201-1.

The designations of aluminium and aluminium alloys and the temper designations used in this part of ISO 6361 are in accordance with ISO 2092, ISO 2107 and annex B respectively.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6361. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6361 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 209-1 : 1989, *Wrought aluminium and aluminium alloys — Chemical composition and forms of products — Part 1: Chemical composition.*

ISO 2092 : 1981, *Light metals and their alloys — Code of designation based on chemical symbols.*

ISO 2107 : 1983, *Aluminium, magnesium and their alloys — Temper designations.*

ISO 3134-3 : 1985, *Light metals and their alloys — Terms and definitions — Part 3: Wrought products.*

ISO 6361-1 : 1986, *Wrought aluminium and aluminium alloy sheets, strips and plates — Part 1: Technical conditions for inspection and delivery.*

### 3 Definitions

For definitions of the terms *sheet*, *strip* and *plate*, see ISO 3134-3.

NOTE — In certain countries, for purposes of mechanical properties, the thickness limit may be lowered to 0,15 mm by agreement between the purchaser and the supplier, in the case of sheets and strips.

### 4 Tensile testing

For the selection of the specimens and tensile testing, see ISO 6361-1.

### 5 Mechanical properties

Values for mechanical properties of aluminium and aluminium alloys are given in tables 1 to 20. For elongation two different gauge lengths are used. The choice of the gauge length for elongation measurements ( $A$  or  $A_{50 \text{ mm}}$ ) is at the discretion of the producer, unless otherwise agreed<sup>1)</sup>.

Test results shall be rounded in accordance with the rules given in annex A.

1)  $A$  : percentage elongation on a gauge length of  $5,65 \sqrt{S_0}$

$A_{50 \text{ mm}}$  : percentage elongation on a gauge length of 50 mm

5.1 Table 1 – Aluminium Al 99,5 (1050 A)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>2)</sup>	65 to 95	20	35	See table 1a)
	H1D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	100 to 140	80	6	
	H2D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	100 to 140	75	8	
	HH	0,35 < <i>a</i> < 3,0	140 min.	120	4	
Plate	O	6,0 < <i>a</i> < 25	65 to 95	20	35	30

Table 1a) – Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H1D	HH
0,35 < <i>a</i> < 0,8	22	4	3
0,8 < <i>a</i> < 1,3	25	5	3
1,3 < <i>a</i> < 2,6	30	6	4
2,6 < <i>a</i> < 3,0	32	6	4
3,0 < <i>a</i> < 6,0	32	8	—

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5.2 Table 2 – Aluminium Al 99,0 (1200) (standards.iteh.ai)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>2)</sup>	75 to 105	25	35	See table 2a)
	H1D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	110 to 150	95	6	
	H2D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	110 to 150	90	8	
	HH	0,35 < <i>a</i> < 3,0	150 min.	130	4	

Table 2a) – Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H1D	HH
0,35 < <i>a</i> < 0,60	17	2	1
0,60 < <i>a</i> < 1,20	22	3	2
1,20 < <i>a</i> < 3,0	30	5	4
3,0 < <i>a</i> < 6,0	30	5	—

1) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

2) Maximum thickness of strips: 3 mm.

5.3 Table 3 — Alloy Al 99,0Cu (1100)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>2)</sup>	75 to 105	25	35	See table 1 a)
	H1D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	110 to 145	95	6	
	HH	0,35 < <i>a</i> < 3,0	150 min.	130	3	

Table 3a) — Minimum elongation *A*<sub>50 mm</sub>, in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H1D	HH
0,35 < <i>a</i> < 0,60	17	2	1
0,60 < <i>a</i> < 1,20	22	3	2
1,20 < <i>a</i> < 3,0	30	5	4
3,0 < <i>a</i> < 6,0	30	5	—

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1) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

2) Maximum thickness of strips: 3 mm.

5.4 Table 4 – Alloy Al Cu4SiMg (2014) and alloy Al Cu4SiMg(A) (2014A)

Product	Temper		Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> min. <sup>2)</sup> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>2)</sup> MPa	Elongation min.	
	ISO	Alternative designation <sup>1)</sup>				<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	O	0,35 < <i>a</i> < 3,20	220 max.	140 max.	13	16
			3,20 < <i>a</i> < 6,0 <sup>3)</sup>	220 max.	140 max.	12	16
Plate	O	O	6,0 < <i>a</i> < 12,0	220 max.	140 max.	12	16
			12,0 < <i>a</i> < 12,5	220 max.	140 max.	12	16
			12,5 < <i>a</i> < 25	220 max.	140 max.	9	16
Sheet, strip	TB TD	T4 T3	0,35 < <i>a</i> < 0,50	395	240		15
			0,50 < <i>a</i> < 1,0	395	240		14
			1,0 < <i>a</i> < 1,60	395	240		14
			1,60 < <i>a</i> < 6,0 <sup>3)</sup>	395	240		14
Plate	TB TD	T4 T3	6,0 < <i>a</i> < 6,30	395	240		14
			6,30 < <i>a</i> < 12,0	395	235		13
Sheet, strip	TF	T6	0,35 < <i>a</i> < 0,50	440	380		6
			0,50 < <i>a</i> < 1,0	440	380		6
			1,0 < <i>a</i> < 1,60	440	380		7
			1,60 < <i>a</i> < 6,0 <sup>3)</sup>	440	390		7
Plate	TF	T6	6,0 < <i>a</i> < 6,30	440	390		7
			6,30 < <i>a</i> < 12,0	440	390		7
Plate	TB51	T451	6,0 < <i>a</i> < 6,30	395	240		14
			6,30 < <i>a</i> < 12,0	395	240		14
			12,0 < <i>a</i> < 12,5	400	250		14
			12,5 < <i>a</i> < 25	400	250	12	
			25 < <i>a</i> < 40	400	250	10	
			40 < <i>a</i> < 50	400	250	8	
			50 < <i>a</i> < 60	395	250	7	
			60 < <i>a</i> < 80	390	240	7	
			80 < <i>a</i> < 100	390	240	7	
	TF51	T651	6,0 < <i>a</i> < 6,30	450	395		7
			6,30 < <i>a</i> < 12,0	450	395		7
			12,0 < <i>a</i> < 12,5	450	395	6	7
			12,5 < <i>a</i> < 25	460	405	5	
			25 < <i>a</i> < 40	460	405	3	
			40 < <i>a</i> < 50	450	390	3	
			50 < <i>a</i> < 60	450	390	1	
			60 < <i>a</i> < 80	435	380	1	
			80 < <i>a</i> < 100	405	350		

1) The alternative designation is applicable to the considered alloy and stated form of product only.

2) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

3) In some countries, on agreement between the supplier and the purchaser, the thickness limit of 6,0 mm may be extended up to 6,30 mm with the same values.

5.5 Table 5 — Alloy Al Cu4MgSi(A) (2017A)

Product	Temper		Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> min. <sup>2)</sup> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>2)</sup> MPa	Elongation min.			
	ISO	Alternative designation <sup>1)</sup>				<i>A</i> %	<i>A</i> <sub>50 mm</sub> %		
Sheet, strip	O	O	0,35 < <i>a</i> < 3,20	220 max.	140 max.	13			
			3,20 < <i>a</i> < 6,0 <sup>3)</sup>	225 max.	145 max.	13			
	TB	T4	0,35 < <i>a</i> < 6,0 <sup>3)</sup>	390	245	15			
Plate	O	O	6,0 < <i>a</i> < 12,0	225 max.	145 max.	13			
			TB	T4	6,0 < <i>a</i> < 12,0	390	250	13	
			TB51	T451	6,0 < <i>a</i> < 12,0	390	250	12	
					12,0 < <i>a</i> < 25	390	250	12	
		25 < <i>a</i> < 40	390	250	11				
		40 < <i>a</i> < 60	380	240	8				
		60 < <i>a</i> < 80	370	240	7				
		80 < <i>a</i> < 120	360	240	6				
		120 < <i>a</i> < 150	350	240	4				

5.6 Table 6 — Alloy Al Cu4Mg1 (2024)

Product	Temper		Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> min. <sup>2)</sup> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>2)</sup> MPa	Elongation min.	
	ISO	Alternative designation <sup>1)</sup>				<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	O	0,24 < <i>a</i> < 0,40	220 max.	140 max.		12
			0,40 < <i>a</i> < 3,20	220 max.	140 max.		12
			3,20 < <i>a</i> < 6,0 <sup>3)</sup>	220 max.	140 max.		12
Plate	O	O	6,0 < <i>a</i> < 12,0	220 max.	140 max.		12
			12,0 < <i>a</i> < 12,5	220 max.	95 max.		12
			12,5 < <i>a</i> < 15	220 max.		10	
Sheet, strip	TB	T4	0,24 < <i>a</i> < 0,50	425	275		12
			0,50 < <i>a</i> < 3,20	425	275		15
			3,20 < <i>a</i> < 6,0 <sup>3)</sup>	425	275		15
Plate	TD51	T351	6,0 < <i>a</i> < 6,30	440	290		12
			6,30 < <i>a</i> < 12,0	440	290		12
			12,0 < <i>a</i> < 12,5	435	290		12
			12,5 < <i>a</i> < 25	435	290	7	
			25 < <i>a</i> < 40	425	290	6	
			40 < <i>a</i> < 50	425	290	5	
			50 < <i>a</i> < 60	415	290	3	
			60 < <i>a</i> < 80	415	290	3	
			80 < <i>a</i> < 100	395	285	3	
			100 < <i>a</i> < 120	395	285	2	
		120 < <i>a</i> < 150	380	260	2		
Sheet, strip	TH1	T81	0,24 < <i>a</i> < 0,50	460	400		5
			0,50 < <i>a</i> < 1,0	460	400		5
			1,0 < <i>a</i> < 1,60	460	400		5
			1,60 < <i>a</i> < 3,20	460	400		5
			3,20 < <i>a</i> < 6,0 <sup>3)</sup>	460	400		5
Plate	TH51	T851	6,0 < <i>a</i> < 12,0	460	400		5
			12,0 < <i>a</i> < 12,5	460	400		5
			12,5 < <i>a</i> < 25	455	400	4	
			25 < <i>a</i> < 40	455	395	4	

1) The alternative designation is applicable to the considered alloy and stated form of product only.

2) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

3) In some countries, on agreement between the supplier and the purchaser, the thickness limit of 6,0 mm may be extended up to 6,30 mm with the same values.

5.7 Table 7 – Alloy Al Cu6Mn (2219)

Product	Temper		Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> min. <sup>2)</sup> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>2)</sup> MPa	Elongation min.	
	ISO	Alternative designation <sup>1)</sup>				<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	O	0,50 < <i>a</i> < 3,20 3,20 < <i>a</i> < 6,0 <sup>3)</sup>	220 max. 220 max.	110 max. 110 max.		12 12
Plate	O	O	6,0 < <i>a</i> < 12,5 12,5 < <i>a</i> < 25 25 < <i>a</i> < 50	220 max. 220 max. 220 max.	110 max. 110 max. 110 max.	10 10	12
Sheet, strip	TH1	T81	0,50 < <i>a</i> < 1,0 1,0 < <i>a</i> < 6,0 <sup>3)</sup>	425 425	315 315		6 7
Plate	TH51	T851	6,0 < <i>a</i> < 12,5 12,5 < <i>a</i> < 25 25 < <i>a</i> < 50 50 < <i>a</i> < 80 80 < <i>a</i> < 100 100 < <i>a</i> < 130 130 < <i>a</i> < 150	425 425 425 425 415 405 395	315 315 315 310 305 295 290	7 6 5 4 4 3	8
Sheet, strip	TH7	T87	0,50 < <i>a</i> < 1,0 1,0 < <i>a</i> < 6,0 <sup>3)</sup>	440 440	360 360		5 6
Plate	TH7	T87	6,0 < <i>a</i> < 12,5 12,5 < <i>a</i> < 25 25 < <i>a</i> < 80 80 < <i>a</i> < 100 100 < <i>a</i> < 120	440 440 440 425 420	350 350 350 345 340	6 5 3 2	6

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5.8 Table 8 – Alloy Al Mn1 (3103)

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Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>4)</sup>	95 to 130	35	28	—
	H1D	0,35 < <i>a</i> < 5,0 <sup>4)</sup>	140 to 180	115	5	—
	H2D	0,35 < <i>a</i> < 5,0 <sup>4)</sup>	140 to 180	110	8	—
	HH	0,35 < <i>a</i> < 3,0	185 min.	165	3	—

1) The alternative designation is applicable to the considered alloy and stated form of product only.

2) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

3) In some countries, on agreement between the supplier and the purchaser, the thickness limit of 6,0 mm may be extended up to 6,30 mm with the same values.

4) Maximum thickness of strips: 3 mm.



5.9 Table 9 – Alloy Al Mn1Cu (3003)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>2)</sup>	95 to 139	35	28	See table 9a)
	H1D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	140 to 180	115	5	
	HH	0,35 < <i>a</i> < 3,0	180 min.	165	3	

Table 9a) – Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H1D	HH
0,35 < <i>a</i> < 0,60	20	2	1
0,60 < <i>a</i> < 1,20	22	3	2
1,20 < <i>a</i> < 3,0	25	5	4
3,0 < <i>a</i> < 6,0	25	5	—

5.10 Table 10 – Alloy Al Mg1(B) (5005)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. <sup>1)</sup> MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>2)</sup>	105 to 145	35	24	See table 10a)
	H3D	0,35 < <i>a</i> < 5,0 <sup>2)</sup>	140 to 180	105	5	
	H3H	0,35 < <i>a</i> < 3,0	180 min.	165	3	

Table 10a) – Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H3D	H3H
0,35 < <i>a</i> < 0,60	16	3	2
0,60 < <i>a</i> < 1,20	19	4	3
1,20 < <i>a</i> < 3,0	21	5	4
3,0 < <i>a</i> < 6,0	21	5	—

1) Minimum values guaranteed only on special agreement between the supplier and the purchaser.

2) Maximum thickness of strips: 3 mm.

5.11 Table 11 – Alloy Al Mg2,5 (5052)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>1)</sup>	170 to 215	65	20	See table 11 a)
	H3D	0,35 < <i>a</i> < 6,0 <sup>1)</sup>	235 to 285	180	5	
	H3H	0,35 < <i>a</i> < 3,0	270 min.	220	3	
Plate	O	6,0 < <i>a</i> < 25	170 to 215	65	16	18

Table 11a) – Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.		
	Temper		
	O	H3D	H3H
0,35 < <i>a</i> < 0,60	15	3	3
1,60 < <i>a</i> < 1,20	17	4	4
1,20 < <i>a</i> < 6,0	19	6	4

5.12 Table 12 – Alloy Al Mg3 (5754)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	0,35 < <i>a</i> < 6,0 <sup>1)</sup>	190 to 240	80	20	—
	H3D	0,35 < <i>a</i> < 5,0 <sup>1)</sup>	240 to 280	190	5	—
	H2D	0,35 < <i>a</i> < 5,0 <sup>1)</sup>	240 to 280	160	10	—
	H3H	0,35 < <i>a</i> < 3,0	290 min.	250	3	—

5.13 Table 13 – Alloy Al Mg3Mn (5454)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	1,6 < <i>a</i> < 6,0 <sup>1)</sup>	215 to 285	85	16	16
	M	3,0 < <i>a</i> < 6,0 <sup>1)</sup>	215 min.	100	16	—
Plate	O	6,0 < <i>a</i> < 25	215 to 285	85	16	18
	M	6,0 < <i>a</i> < 25	215 min.	100	16	14

1) Maximum thickness of strips: 3 mm.

5.14 Table 14 — Alloy Al Mg4,5Mn0,7 (5083)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	O	1,20 < <i>a</i> < 6,0 <sup>1)</sup>	275 to 350	125 to 200 <sup>2)</sup>	17	See table 14a)
	H3B	1,20 < <i>a</i> < 6,0 <sup>1)</sup>	310 to 380	235 to 305 <sup>2)</sup>	10	
	H3D	1,20 < <i>a</i> < 6,0 <sup>1)</sup>	345 to 405	270 to 340 <sup>2)</sup>	6	
Plate	O	6,0 < <i>a</i> < 50	270 to 345	115 to 200 <sup>2)</sup>	14	
	M	6,0 < <i>a</i> < 12,5	275 min.	125 min.	12	
	M	12,5 < <i>a</i> < 25	275 min.	125 min.	10	

Table 14a) — Minimum elongation *A*<sub>50 mm</sub> in per cent

Thickness <i>a</i> mm	<i>A</i> <sub>50 mm</sub> min.			
	Temper			
	M	O	H3B	H3D
1,2 < <i>a</i> < 3,0	—	16	8	6
3,0 < <i>a</i> < 6,0	—	16	10	8
6,0 < <i>a</i> < 12,5	12	16	—	—

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5.15 Table 15 — Alloy Al SiMgMn (6082)

Product	Temper	Thickness <i>a</i> mm	Tensile strength <i>R<sub>m</sub></i> min. MPa	0,2 % proof stress <i>R<sub>p0,2</sub></i> min. MPa	Elongation min.	
					<i>A</i> %	<i>A</i> <sub>50 mm</sub> %
Sheet, strip	TF	0,35 < <i>a</i> < 10	310	260	10	8

1) Maximum thickness of strips: 3 mm.

2) Minimum values guaranteed only on special agreement between the supplier and the purchaser.