



TECHNICAL DATASHEET OF ALUMINIUM COILS, STRIPS & SHEETS ALLOY 5754

MANUFACTURING TECHNOLOGY:

Aluminium cold-rolled strips are produced on a quarto, non-reversing, single stand mill.
The stock for cold rolling is a continuous-cast and hot-rolled strip.
The Tension Leveling Line and the Slitting Line allow for further processing of the cold-rolled strip.
We produce the following types of cold-rolled strip surface:

- Not degreased (after rolling)
- Degreased without chemical
- Stucco ("orange peel" surface)

PRODUCT:

Coil – TW

Strip – TC

Sheet - TA

TECHNICAL DATA:

PARAMETER	PRODUCT	RANGE [mm]
Thickness	TW / TC / TA	0,2 – 3 > 3 – 4 without washing and straightening
Width	TW / TC TA	10 – 2000 500 – 2000
Lenght	TA	to be agreed
ID / OD	TW / TC	for thickness: 0,2 - 1,6 : 150, 305, 406, 508 for thickness: 1,6 – 4 : 406, 508

Tolerance according to EN 485-4



CHEMICAL COMPOSITION:

Alloy	Si max [%]	Fe max [%]	Cu max [%]	Mn max [%]	Mg max [%]	Cr max [%]	Zn max [%]	Ti max [%]	Others max [%]	Total Others max [%]	Al. min [%]
5754	0,40	0,40	0,10	0,50	2,6 – 3,6	0,30	0,20	0,15	0,05	-	-

According to EN 573-3



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MECHANICAL PROPERTIES:

ALLOY 5754													
Temp er	Thicknes [mm]	Tensile strenght Rm [MPa]		Yield strength Rp0,2 [MPa]		Elongation A50 [%]	Temp er	Thicknes [mm]	Tensile strenght Rm [MPa]		Yield strength Rp0,2 [MPa]		Elongation A50 [%]
		min	max	min	max	min			min	max	min	max	min
O	0,2 – 0,5	190	240	80		12	H22	0,2 – 0,5	220	270	130		7
	0,5 – 1,5	190	240	80		14		0,5 – 1,5	220	270	130		8
	1,5 – 3,0	190	240	80		16		1,5 – 3,0	220	270	130		10
	3,0 – 4,0	190	240	80		18		3,0 – 4,0	220	270	130		11
H111	0,2 – 0,5	190	240	80		12	H24	0,2 – 0,5	240	280	160		6
	0,5 – 1,5	190	240	80		14		0,5 – 1,5	240	280	160		6
	1,5 – 3,0	190	240	80		16		1,5 – 3,0	240	280	160		7
	3,0 – 4,0	190	240	80		18		3,0 – 4,0	240	280	160		8
H12	0,2 – 0,5	220	270	170		4	H26	0,2 – 0,5	265	305	190		4
	0,5 – 1,5	220	270	170		5		0,5 – 1,5	265	305	190		4
	1,5 – 3,0	220	270	170		6		1,5 – 3,0	265	305	190		5
	3,0 – 4,0	220	270	170		7							
H14	0,2 – 0,5	240	280	190		3	H28	0,2 – 0,5	290		230		3
	0,5 – 1,5	240	280	190		3		0,5 – 1,5	290		230		3
	1,5 – 3,0	240	280	190		4		1,5 – 3,0	290		230		4
	3,0 – 4,0	240	280	190		4							
H16	0,2 – 0,5	265	305	220		2	H18	0,2 – 0,5	290		250		1
	0,5 – 1,5	265	305	220		3		0,5 – 1,5	290		250		2
	1,5 – 3,0	265	305	220		3		1,5 – 3,0	290		250		2

According to EN 485-2

TRANSPORT AND STORAGE CONDITIONS OF ALUMINUM STRIPS AND SHEETS BY CUSTOMER:

Strips (sheets) should be transported in covered, dry and clean means of transport preserving current regulations, protecting it from mechanical damage, humidity and harmful environmental factors.

Strips (sheets) should be stored in covered, dry and clean rooms, protecting them from humidity and the action of active chemicals.

The storage temperature room should be stable. Changes of the temperature in stock cause that air moisture is condensed on the strip surface, in consequence of capillary activity action between the coils, penetrates inside and inducing corrosion. In the case of temperature changes, the packaging of the material should be opened.