METALLURGICA CIDNEO

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TECHNICAL DATA FOR BRASS PROFILES

ALLOYS :

Metallurgica Cidneo produces the following alloys:

Table N°1

Material designation		Composition in %										
Symbol	Number		Cu	Al	As	Fe	Mn	Ni	Pb	Sn	Zn	Others Total
CuZn40Pb2Al	CW618N	min	57,0	0,05	-	-	-	-	1,6	-	Resto	-
		max	59,0	0,5	-	0,3	-	0,3	3,0	0,3	-	0,2
CuZn43Pb2Al	CW624N	min	55,0	0,05	-	-	-	-	1,6	-	Resto	-
		max	57,0	0,5	-	0,3	-	0,3	3,0	0,3	-	0,2
CuZn40Pb2	CW617N	min	57,0	-	-	-	-	-	1,6	-	Resto	-
		max	59,0	0,05	-	0,3	-	0,3	2,5	0,3	-	0,2

Symbol	Number		Cu	Al	Fe	Mn	Ni	Pb	Si	Sn	Zn	Others Total
CuZn40Mn2Fe1	CW723R	min	56,5	-	0,5	1,0	-	-	-	-	Resto	-
		max	58,5	0,1	1,5	2,0	0,6	0,5	0,1	0,3	-	0,4
CuZn40Mn1Pb1	CW720R	min	57,0	-	-	0,5	-	1,0	-	-	Resto	-
		max	59,0	0,2	0,3	1,5	0,6	2,0	0,1	0,3	-	0,3

Standard EN 12167

Table N°2

Symbol	Number	Tensile strength	0,2 % Proof strength	Hardness min
		N/mm²	N/mm²	HB
CuZn40Pb2Al	CW618N	350	240	80
CuZn43Pb2Al	CW624N	350	240	80
CuZn40Pb2	CW617N	360 Min	320 Max	90 - 125
CuZn40Mn2Fe1	CW723R	390 Min	190 Min	105 - 145
CuZn40Mn1Pb1	CW720R	-	180 Min	100 - 145

Standard EN 12167

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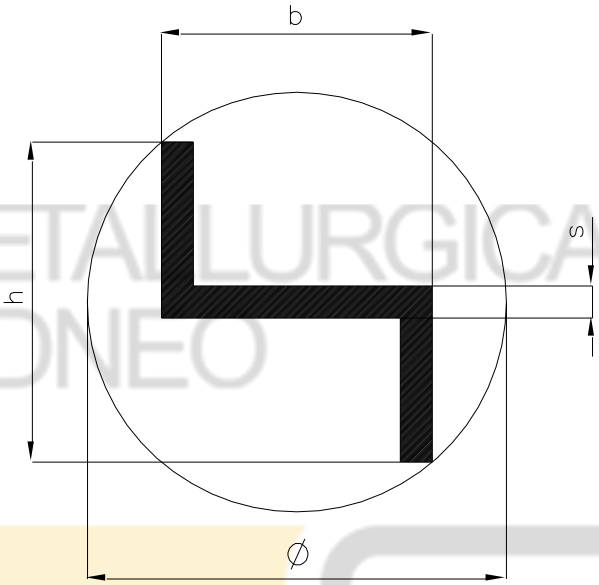
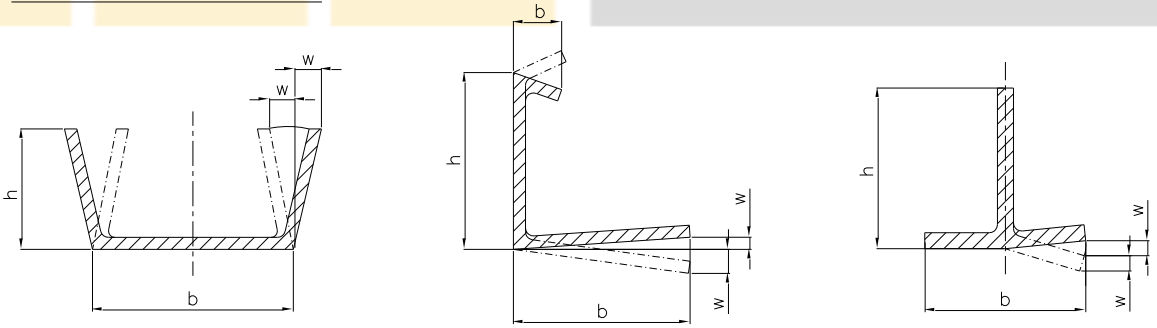
TOLERANCES FOR EXTRUDED PROFILES



TOLERANCE ON DIMENSIONS (b) and (h)						
NOMINAL DIMENSIONS b - h		CIRCUMSCRIBING CIRCLE DIAMETER				
		OVER	-	25,1	50,1	80,1
		UP TO	25	50	80	120
OVER	UP TO		+/-	+/-	+/-	+/-
-	10		0,20	0,25	0,30	0,35
10,1	15		0,30	0,35	0,40	0,45
15,1	25		0,40	0,45	0,50	0,55
25,1	50		-	0,55	0,60	0,65
50,1	80		-	-	0,80	0,85
80,1	100		-	-	1,00	1,05
100,1	120		-	-	-	-

TOLERANCE ON DIMENSION (S)						
NOMINAL DIMENSIONS S		CIRCUMSCRIBING CIRCLE DIAMETER				
		OVER	-	25,1	50,1	80,1
		UP TO	25	50	80	120
OVER	UP TO		+/-	+/-	+/-	+/-
-	3		0,20	0,25	0,30	-
3,1	6		0,25	0,30	0,35	0,40
6,1	10		0,30	0,35	0,40	0,45
10,1	15		0,40	0,45	0,50	0,55
15,1	25		-	0,55	0,60	0,65

ANGLE DEVIATION



w = ±0.025xb
w = ±0.025xh

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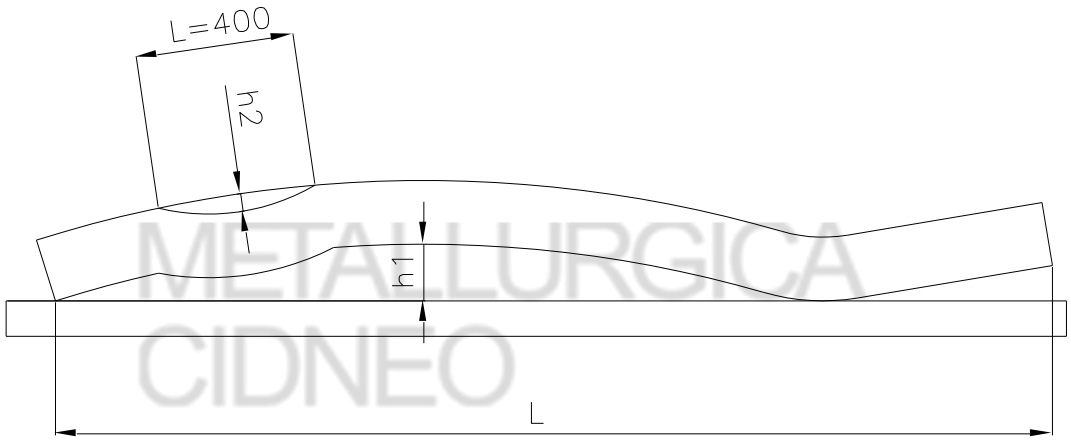
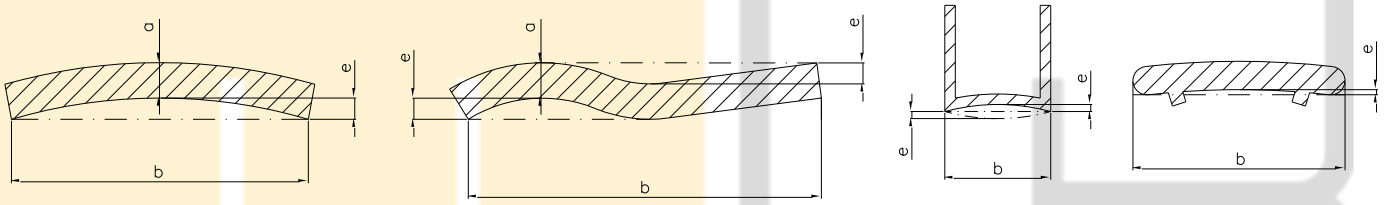
STRAIGHTNESS



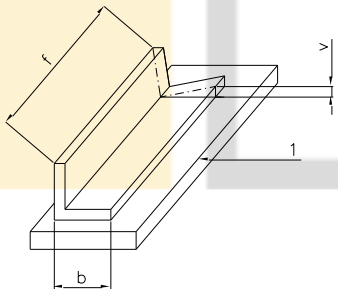
h1 ≤ 4 mm for linear meter
h2 ≤ 2 mm for lenghts < 400 mm

FLATNESS



e = ±0.03xb

TWIST



1 = Reference plane
b = Width
f = Factor
v = Twist

v = bxf

CIRCUMSCRIBING CIRCLE		f		
		2 - 4mt	**1mt**	**0.4mt**
-	**25**	0,40	0,20	0,15
25	**50**	0,30	0,18	0,12
50	**80**	0,25	0,12	0,09
80	**120**	0,16	0,10	0,06

TOLERANCES ON LENGTH OF BAR

Standard Length :

Profiles, Angles, T sections and channels	mm 4000	- 0 / + 200
Halfrounds and flats	mm 3000	- 0 / + 200

For the purpose of this tolerance, the designation "**v.l.c.**" in the product description means the item is supplied in standard length.

Fixed length
Subject to the customer request, the fixed length has -0 / +20 mm tolerance.

Permitted deviation from ordered quantity :

Quantity of product		% permitted deviation
over kg	up to kg	
---	150	± 30
151	300	± 20
301	500	± 15
501	2500	± 10
2501	-	± 5