

°Custom/standard/special
aluminum profiles

°Heat sinks in bars

°Heat sinks
HIGH PERFORMANCE

°LED Heat Sinks

°Heat sinks machined to design
and anodized

°Card holders
for electronics
in aluminum type DIN 43700

°Modular structural profiles
for robotics

°Modular structural profiles
for PHOTOVOLTAIC installations



OMAR s.r.l.
PROFILATI ALLUMINIO
ALTA TECNOLOGIA

The "many forms" of the aluminum billet

STANDARD profiles (channels, flats, angles, tubes, bars etc..)

September 2024 Edition

Consult the updated catalogue online at:

www.omar-alluminio.it

www.omar-alluminio.com

www.angolari-alluminio.it

www.canalini-alluminio.it

www.piatti-alluminio.it

www.tubi-alluminio.it

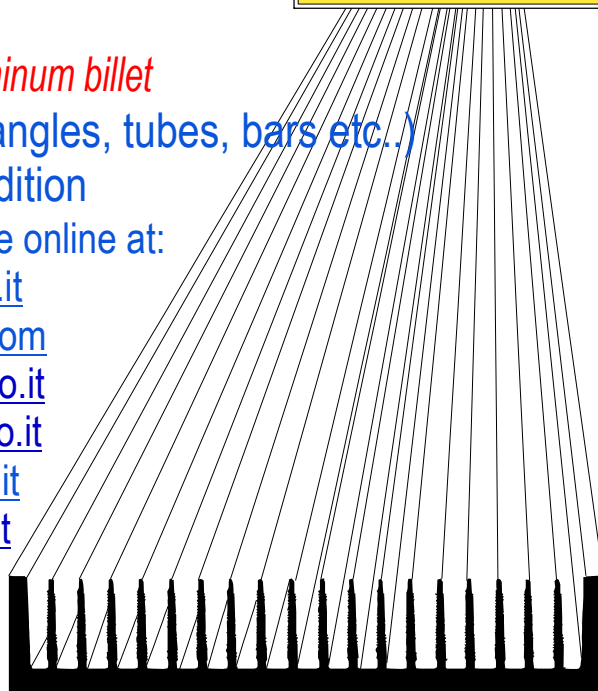
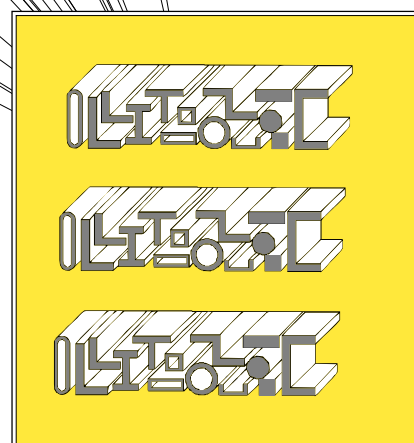
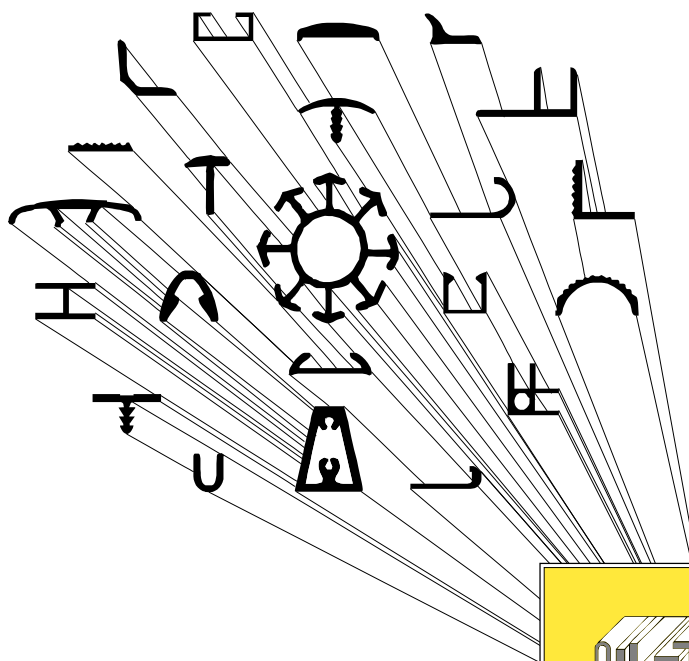
°Profiles for pneumatics

°Profiles for stands

°Skirting board profiles
skirting board covers

°Products derived from
aluminum profiles

°Machining
aluminum profiles



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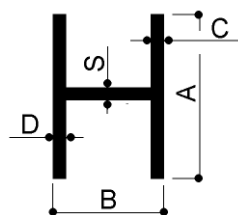
Production and sale of aluminum profiles: rectangular bars, rectangular bars with rounded edges, simple and double channels, equal-sided angles, unequal-sided angles, square tubes with sharp edges, rectangular tubes with rounded edges, round tubes, round bars, square bars, hexagonal bars, 'T' profiles, 'Z' profiles, semi-circular and semi-round tubes, round-based channels and profiles for runners, 'H' profiles, sliding doors for shop windows, doors / joint covers and drip trays, nails, profiles for tables, desks, kitchens, ribbed plates and angles, profiles for plinths and panels, frames and handles, counter-glasses, handrails, profiles for the fitting out of stands, shops, complementary profiles, profiles for roofs and windows, price-holder profiles and profiles for elevators, profiles for nautical use, profiles for comb factories, profiles for signs and bins, brush holders

ALUMINUM PROFILES
CUSTOM-DECORATED-STANDARD-SPECIAL



AND FOR: ELECTRONICS-LED-PHOTOVOLTAIC
AUTOMATION ROBOTICS-PNEUMATICS-AUTOMOTIVE

Sede Legale ed Operativa: Via Newton 12 - 20016 Pero (Mi) - Tribunale di Milano n.272685 Rea 1251332 - C.F. e P.IVA 08863710151
Capitale Sociale i.v. Euro 110.000,00



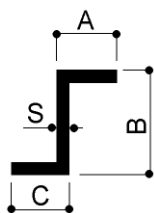
or further dimensions of aluminium H-profiles please visit the website:

www.profilati-h-alluminio.it

H-SHAPED PROFILES

PROFILI A "H"	A	B	S	C	D	GR/MT
H 70x41x2	70	41	2			956
H 76,2x152,4x9,55x6,35	76,2	152,4	9,55	6,35		6368
H 80x90x6	80	90	6			3489
H 80x100x4,4x6	80	100	4,4	6		3880
H 80x100x6x8x8	80	100	6			4017
H 80x100x6x8x8	80	100	6	8	8	4817
H 80x350x9x7x5	80	350	9	7	5	8140
H 82x145x3x6	82	145	3	6	6	5260
H 86x162,5x12x8	86	162,5	12	8		8680
H 95,5x55x4,5	95,5	55	4,5			2874
H 100x70x6	100	70	6			4180
H 100x100x7x7	100	100	7			5406
H 100x100x10x10x10	100	100	10	10	10	7560
H 100x120x8x6	100	120	8	6		7030
H 100x140x13x9	100	140	13	9		12130
H 101,6x215,9x11,11x7,94	101,6	215,9	11,11	7,94		10830
H 105x56x1,5	105	56	1,5			~1080
H 107x61x5x5x5	107	61	5	5	5	3596
H 120x80x7x9	120	80	7	9		~6000
H 120x200x8x8x6	120	200	8	8	6	8460
H 122x158x5x6	122	158	5	6	6	6690
H 124x306x7x7x6,35	124	306	7	7	6,35	9780
H 140x90x8x10	140	90	8	10	10	7450
H 140x135x6x5	140	135	5			6197
H 140x135x5x6x6	140	135	5	6	6	6196
H 140x135x5x8x8	140	135	5	8	8	7654
H 140x200x15x10x7,5	140	200	15	10	7,5	13325
H 150x32x3	150	32	3			2628
H 150x202x12x6	150	202	12	6		11761
H 150/110x203x12x10x5	150/110	203	12	10	5	10403
H 160x74x7x10	160	74	7	10		~7000
H 160/100x220x14x13x8	160/100	220	14	13	8	13857
H 170x116x13x13x18	170	116	13	13	18	16848
H 170x250x15x10	170	250	15	10		19931
H 170x250x17x15x8	170	250	17	15	8	19051
H 170x314,7x15x15x10	170	314,7	15	15	10	21850
H 200/120x240x12x8	200/120	240	12	8		15148
H 200/150x240x14x12x8	200/150	240	14	12	8	17415
H 200x132x20x16	200	132	20	16		23500
H 200x136x18x18x20	200	136	18	18	20	25600
H 200x142x23,5x23,5x21,5	200	142	23,5	23,5	21,5	31828
H 200x450x12x12x12	200	450	12	12	12	27180
H 220x170x15x9	220	170	15	9		18620
H 250x220x15x14,5	250	220	15	14,5		26900
H 250x250x13x13x8	250	250	13	13	8	22480
H 314,7x170x10x15	314,7	170	10	15		21460
H 355x310x19x20	355	310	19	20		49700
H 400x308x19x20	400	308	19	20		52160
H 440x307x19x20	440	307	19	20		59200
H 550x200x20x30	550	200	20	30		60700

* Unless otherwise indicated, profiles are made of EN AW-6060T6 alloy
* All dimensions are expressed in mm



For more dimensions of aluminum Z profiles please visit:

www.profilati-z-alluminio.it

Z-SHAPED PROFILES

PROFILI A "Z"	A	B	C	S	GR/MT
Z 4x4x16x1	4	4	16	1	59
Z 4x4x22x1	4	4	22	1	76
Z 4x11x7x1	4	11	7	1	54
Z 4,5x4,5x12x1	4,5	4,5	12	1	51
Z 10x10x15x2	10	10	15	2	167
Z 10x10x20x1,5	10	10	20	1,5	150
Z 10x10x20x2	10	10	20	2	194
Z 10x10x25x1,5	10	10	25	1,5	170
Z 10x10x25x2	10	10	25	2	221
Z 10x10x30x1,5	10	10	30	1,5	190
Z 10x10x30x2	10	10	30	2	248
Z 10x90x20x2	10	90	20	2	626
Z 11x11x6x2	11	11	6	2	130
Z 11x11x10x2	11	11	10	2	151
Z 11x16,5x13x2,3	11	16,5	13	2,3	237
Z 12x20x10x3	12	20	10	3	291
Z 12x25x15x2	12	25	15	2	260
Z 12x30x20x1,5	12	30	20	1,5	239
Z 14x14x18x4	14	14	18	4	411
Z 15x15x19x3	15	15	19	3	348
Z 15x15x20x3	15	15	20	3	356
Z 15x15x25x2	15	15	25	2	275
Z 15x15x30x2	15	15	30	2	302
Z 15x15x35x3	15	15	35	3	478
Z 15x20x15x2	15	20	15	2	249
Z 15x25x15x3	15	25	15	3	397
Z 15x33x20x2	15	33	20	2	345
Z 15x45x15x2	15	45	15	2	383
Z 15x50x15x1,5	15	50	15	1,5	313
Z 16x16x15x2	16	16	15	2	232
Z 17x25x17x2	17	25	17	2	297
Z 17x32x17x2	17	32	17	2	335
Z 18x20x21x3	18	20	21	3	430
Z 20x12x10x3	20	12	10	3	291
Z 20x15x20x1,5	20	15	20	1,5	211
Z 20x15x20x3	20	15	20	3	397
Z 20x18x21x3	20	18	21	3	429
Z 20x20x20x2	20	20	20	2	302
Z 20x20x20x3	20	20	20	3	437
Z 20x30x20x3	20	30	20	3	518
Z 25x15x12x2	25	15	12	2	283
Z 25x25x25x2	25	25	25	2	~400
Z 25x25x25x3	25	25	25	3	559
Z 25x29x25x2	25	29	25	2	405
Z 25x40x25x3	25	40	25	3	680

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* All dimensions are expressed in mm

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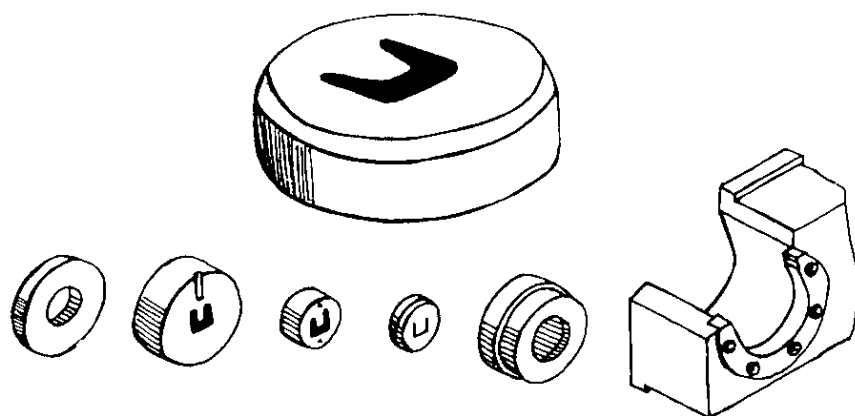
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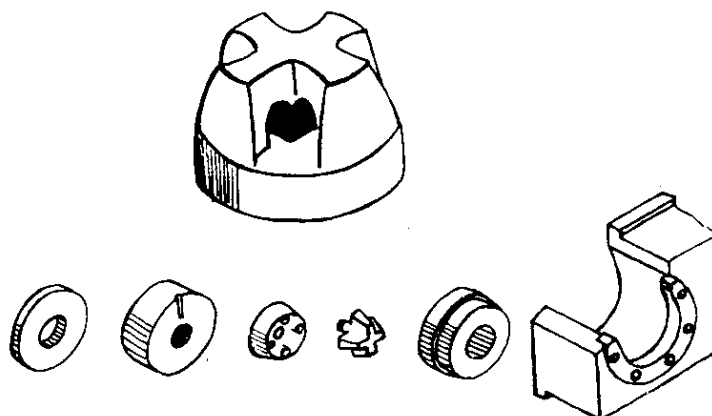
CUSTOM ALUMINUM PROFILES / STANDARD / SPECIAL / AND FOR:

ELECTRONICS / LED / PHOTOVOLTAIC / ROBOTIC AUTOMATION / PNEUMATICS / AUTOMOTIVE

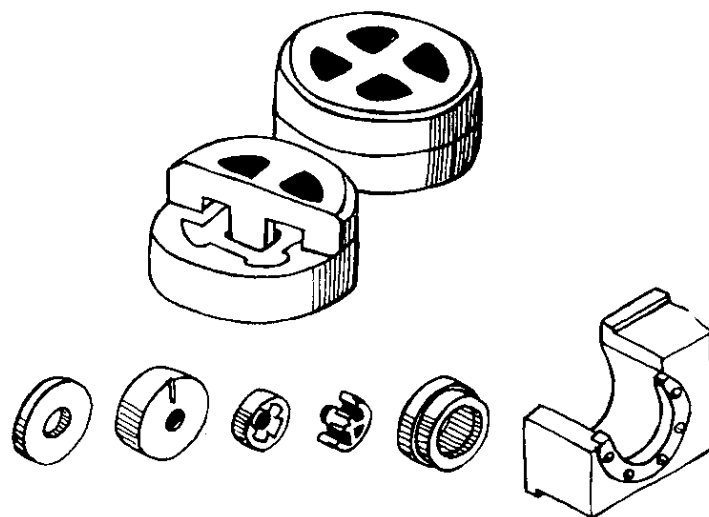
A) flat matrix for open profile



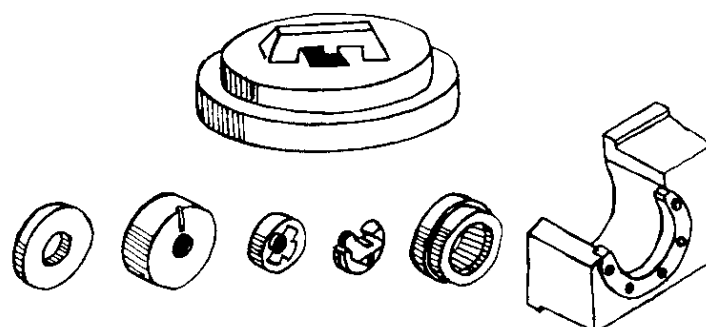
B) Spyder matrix for hollow profile



C) Porthole matrix for hollow profile



D) Bridge matrix similar to Porthole for hollow profile



- MAXIMUM EXTRUDABLE DIMENSIONS -

SCALA 1:3

470

330

R145

R90

PRESSA 3200 TON

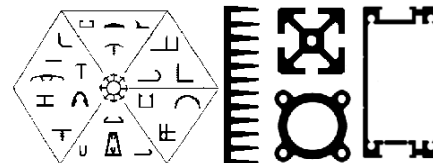
PRESSA 6050 TON

450

630

Main extrusion alloys

Extrusion aluminium alloy proprieties



LEGA DI ALLUMINIO DA ESTRUSIONE EN AW-6060

La lega EN AW 6060 è lega da estrusione più diffusa sul mercato europeo, per le sue doti di alta velocità di deformazione a caldo.

Essa consente la realizzazione di profilati con sezione anche complessa, comprendente cavità e scanalature, per avvicinare quanto più possibile il disegno dell'estruso a quello del manufatto finito, e ridurre al minimo le lavorazioni intermedie.

Essa inoltre presenta ottima resistenza alla corrosione ambientale, anche in atmosfera industriale e marina.

Caratteristiche fisiche

Massa volumica	2,70	Gr/cm3	Conducibilità termica a 20°C	Nello stato 0: 2,09 W/cm °Kelvin Nello stato T6: 1,75 W/cm °Kelvin
Punto di fusione inferiore	605	C	Coeff. Di dilatazione termica lineare	Tra 20° e 100°C: 23,0 -10-6 1/°Kelvin Tra 20° e 200°C: 24,0 -10-6 1/°Kelvin Tra 20° e 300°C: 25,0 -10-6 1/°Kelvin
Calore specifico tra 0° e 100°C	890	Joule/Kg °Kelvin	Resistività elettrica a 20°C	Nello stato 0: 3,14 microOhm *cm Nello stato T6: 3,25 microOhm *cm
Modulo di elasticità lineare E	69000	Newton/mm2		
Modulo di elasticità tangenziale G	26000	Newton/mm2		

Tipo profilo	(1) stato fisico di fornitura	Diametro D	[mm] per tondi,	Carico	Di rottura a	Carico di	Rottura a	Allungamento	
		o spess. S	[mm] per barre,	Trazione	Rm [Mpa]	Trazione	Rm [Mpa]	A %	A50 mm%
		o spess. Di parete	e per profili	min	max	min	max	min	max
tondi e barre piane	T4 (*)	D ≤150	S ≤150	120	-	60	-	16	14
	T5	D ≤150	S ≤150	160	-	120	-	8	6
	T6 (*)	D ≤150	S ≤150	190	-	150	-	8	6
	T64 (*)	D ≤50	S ≤50	180	-	120	-	12	10
	T66 (*)	D ≤150	S ≤150	215	-	160	-	8	6
tubi	T4(*)	e ≤15		120	-	60	-	16	14
	T5	e ≤15		160	-	120	-	8	6
	T6(*)	e ≤15		190	-	150	-	8	6
	T64(*)	e ≤15		180	-	120	-	12	10
	T66(*)	e ≤15		215	-	160	-	8	6
Profili aperti e cavi	T4 (*)	e ≤25		120	-	60	-	16	14
	T5	e ≤5		160	-	120	-	8	6
		5 < e ≤ 25		140	-	100	-	8	6
	T6 (*)	e ≤3		190	-	150	-	8	6
		3 < e ≤ 25		170	-	140	-	8	6
	T64 (*)	e ≤15		180	-	120	-	12	10
	T66 (*)	e ≤3		215	-	160	-	8	6
		3 < e ≤ 25		195	-	150	-	8	6

LEGA	Stato fisico	Deformabilità plastica		Lavorabilità su macchina utensile	Saldabilità	Lucidabilità	Ossidazione		Resistenza alla	corrosione
		a freddo	a caldo				protettiva	decorativa		
EN AW-3103	F,H 112	2	1	5	3	4	3	3	1	2
	O,H 111	2	1	5	3	4	3	3	1	2
EN AW-6060	O	2	1	5	2	4	1	2	1	2
	T1,T4	3	2	4	2	3	1	1	1	2
	T5,T6	4	X	3	2	2	1	1	1	2
EN AW-6063	O,H 111	2	1	5	2	4	1	2	2	3
	T4	3	2	4	2	3	1	1	2	3
	T5,T6	4	X	3	2	2	1	1	2	3
EN AW-6005A	O	2	1	4	2	3	2	4	2	3
	T4	3	2	3	2	2	2	3	2	3
	T5,T6	4	X	2	2	1	2	3	2	3
EN AW-6082	O,H 111	2	1	4	2	3	2	3	3	3
	T4	3	2	3	2	2	2	2	3	3
	T5,T6	4	X	2	2	1	2	2	3	3

EVALUATION INDEX: 1=EXCELLENT 2=GOOD 3=SUFFICIENT 4=MEDIOCRETE 5=POOR X=NOT APPLICABLE TO STATES T5 AND T6

FIERA MILANO RHO - PERO



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