

°Aluminium profiles according
to drawing/standard/special

°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, plates, angles, tubes, bars etc..)

October 2022 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

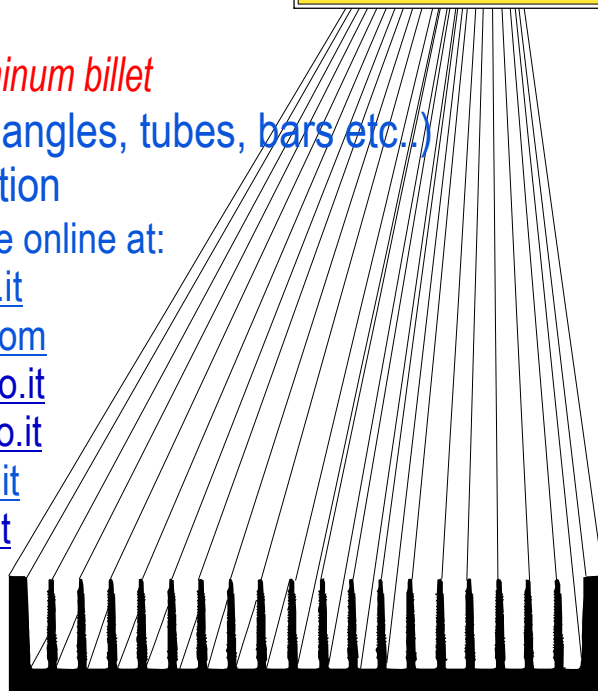
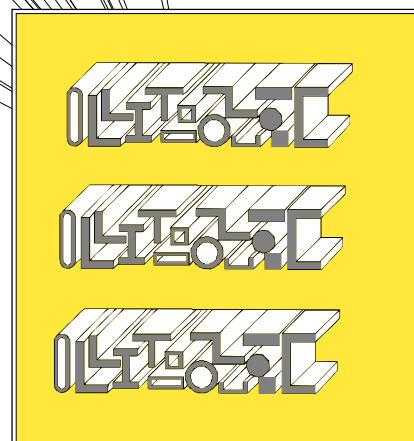
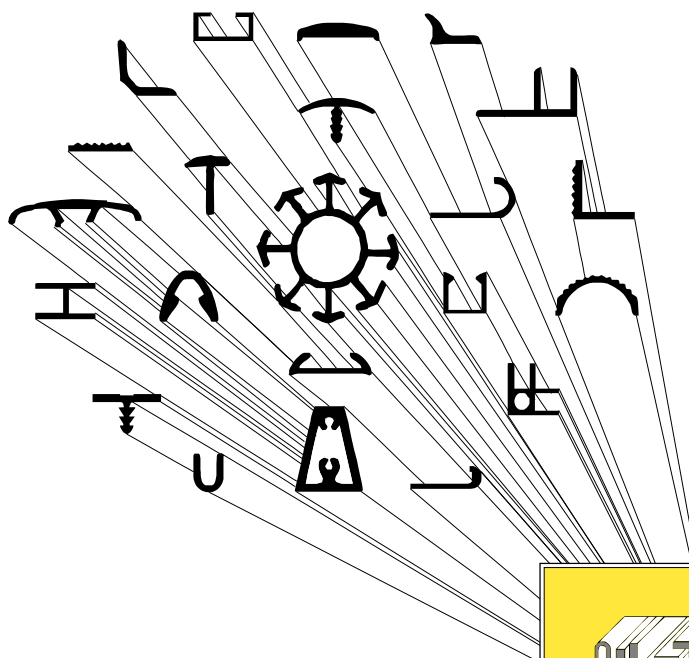
°Profiles for pneumatics

°Profiles for stands

°Skirting board profiles
skirting board covers

°Products derived from
aluminum profiles

°Machining
aluminum profiles



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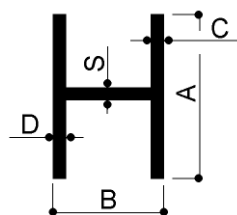
Production and sale of aluminum profiles: rectangular bars, rectangular bars with rounded edges, simple and double channels, equal-sided angles, unequal-sided angles, square tubes with sharp edges, rectangular tubes with rounded edges, round tubes, round bars, square bars, hexagonal bars, 'T' profiles, '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 skirting boards 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



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 € 10.400 i.v.



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

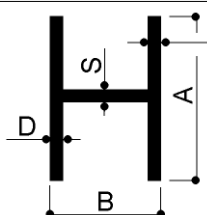
www.profilati-h-alluminio.it

H-SHAPED PROFILES

PROFILI A "H"	A	B	S	C	D	GR/MT
H 7,8x11,5x1,5	7,8	11,5	1,5			110
H 8x5x1,25	8	5	1,25			60
H 8x20x3x3x3	8	20	3	3	3	243
H 9x8x1,7x1x1	9	8	1,7	1	1	75
H 10x15,7x1,5	10	15,7	1,5			132
H 15x5,5x1,1	15	5,5	1,1			100
H 15x8x1,2x1,5	15	8	1,2	1,5	1,5	100
H 18x10x1,35	18	10	1,35			155
H 18x10x1,5x1,5x1,5	18	10	1,5	1,5	1,5	162
H 18x11x1,5x1,5x3	18	11	1,5	1,5	3	189
H 20x10x1,2	20	10	1,2			154
H 20x12x1,2	20	12	1,2			165
H 20x15,7x1,5	20	15,7	1,5			213
H 20x15,7x2x2x2	20	15,7	2	2	2	213
H 20x30x1,2x1,2x1,2	20	30	1,2	1,2	1,2	251
H 21,5x11x1,5x1,5x1,5	21,5	11	1,5	1,5	1,5	208
H 24x14x2	24	14	2			310
H 25x10x2x2x2	25	10	2	2	2	302
H 25x10x3x2x2	25	10	3	2	2	315
H 25x12,6x8x2,3x2,3	25	12,6	8	2,3	2,3	483
H 27x13x2	27	13	2			375
H 30x60x2,5x2x2	30	60	2,5	2	2	701
H 32x20,8x1,4	32	20,8	1,4			304
H 33,35x18,7x1,35x1,35x1,35	33,35	18,7	1,35	1,35	1,35	301
H 34x17,2x1,5	34	17,2	1,5			335
H 40x15x2	40	15	2			491
H 40x40x2	40	40	2			626
H 40x49,2x2x2x2	40	49,2	2	2	2	572
H 41x70x2	41	70	2			956
H 42x29x2	42	29	2			582
H 42,5x65x2,5x2,5x2,5	42,5	65	2,5	2,5	2,5	979
H 43,4x61,5x1,5	43,4	61,5	1,5			649
H 44x6x2,2	44	6	2,2			~280
H 45,1x43,2x1,1x1,1x1,1	45,1	43,2	1,1	1,1	1,1	390
H 50x25x2	50	25	2			710
H 50x25x3x2x2	50	25	3	2	2	712
H 50x40x3	50	40	3			1000
H 50x80x6x6x3,5	50	80	6	6	3,5	2300
H 52x22x2,5x2,2	52	22	2,5	2,2	2,2	580
H 54,5x37,5x1,5	54,5	37,5	1,5			~390
H 55x37,5x1,5	55	37,5	1,5			~400
H 56x37,5x1,5	56	37,5	1,5			~410
H 80x50x6	80	50	6			2300
H 80x100x4,4x6	80	100	4,4	6		3880
H 80x100x6x8x8	80	100	6			4017

* Unless otherwise indicated, profiles are made of EN AW-6060T6 alloy

* All dimensions are expressed in mm



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

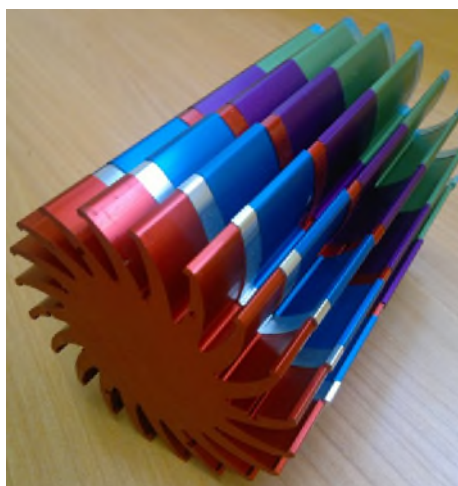
www.profilati-h-alluminio.it

H-SHAPED PROFILES

PROFILI A "H"	A	B	S	C	D	GR/MT
H 80x100x6x8x8	80	100	6	8	8	4817
H 80x350x9x7x5	80	350	9	7	5	8140
H 82x145x3x6	82	145	3	6	6	5260
H 90x80x6	90	80	6			3489
H 99x55x3x2x2	99	55	3	2	2	1482
H 100x70x6	100	70	6			4180
H 100x100x7	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 140x135x5	140	135	5			6197
H 140x135x5x6x6	140	135	5	6	6	6196
H 140x135x5x8x8	140	135	5	8	8	7654
H 160x74x7x10	160	74	7	10		~7000
H 170x116x13x13x18	170	116	13	13	18	16848
H 170x314,7x15x15x10	170	314,7	15	15	10	21850
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

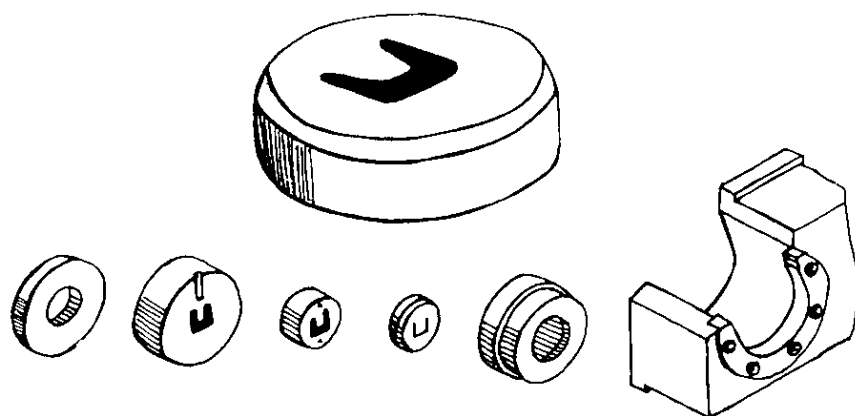
* Unless otherwise indicated, profiles are made of EN AW-6060T6 alloy

* All dimensions are expressed in mm

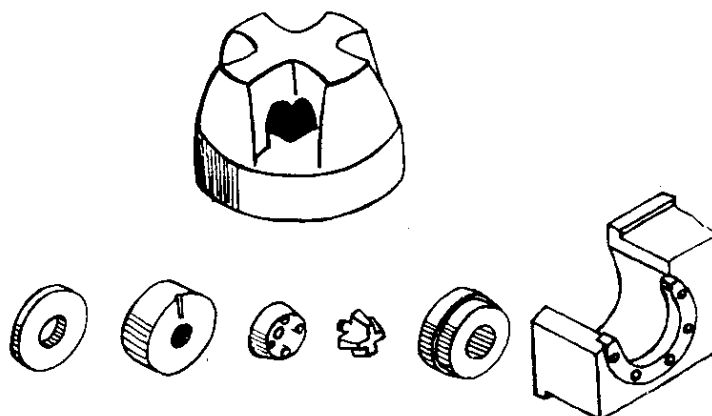


EXAMPLE PHOTO: ANODIZED ALUMINUM PROFILES
FLOWER HEAT SINKS FOR LED SPOTLIGHTS

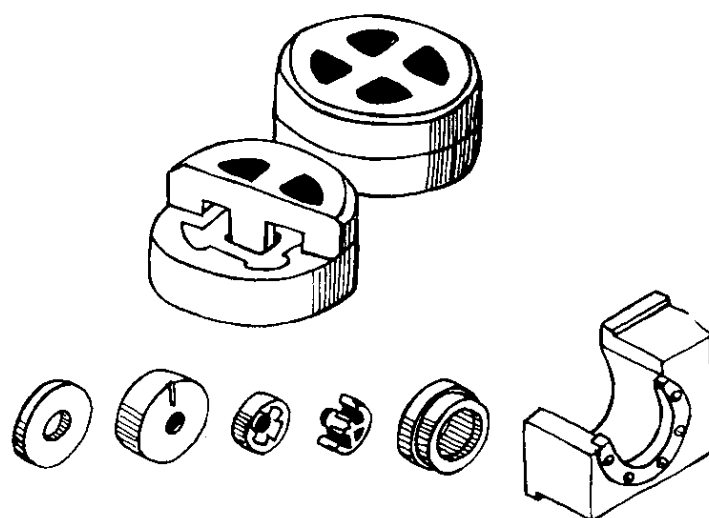
A) flat matrix for open profile



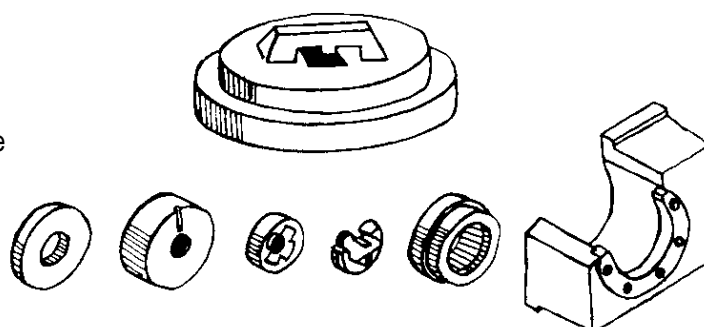
B) Spyder matrix for hollow profile



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

Cataloghi Online: www.omar-alluminio.it

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CUSTOM ALUMINUM PROFILES / STANDARD / SPECIAL / AND FOR:
ELECTRONICS / LED / PHOTOVOLTAIC / ROBOTIC AUTOMATION / PNEUMATICS / AUTOMOTIVE

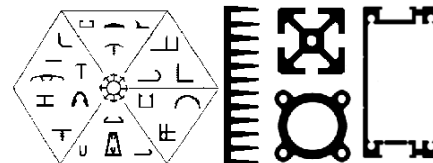
450
630



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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	1	2
	O,H 111	2	1	5	3	4	3	3	1	1	2
EN AW-6060	O	2	1	5	2	4	1	2	1	2	2
	T1,T4	3	2	4	2	3	1	1	1	2	2
	T5,T6	4	X	3	2	2	1	1	1	2	2
EN AW-6063	O,H 111	2	1	5	2	4	1	2	2	2	3
	T4	3	2	4	2	3	1	1	2	2	3
	T5,T6	4	X	3	2	2	1	1	2	2	3
EN AW-6005A	O	2	1	4	2	3	2	4	2	3	3
	T4	3	2	3	2	2	2	3	2	3	3
	T5,T6	4	X	2	2	1	2	3	2	3	3
EN AW-6082	O,H 111	2	1	4	2	3	2	3	3	3	3
	T4	3	2	3	2	2	2	2	3	3	3
	T5,T6	4	X	2	2	1	2	2	3	3	3

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



FIERA MILANO RHO - PERO



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