

°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

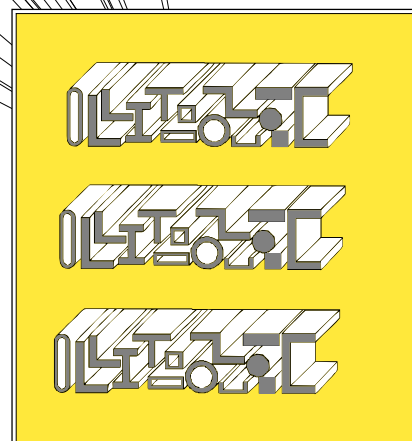
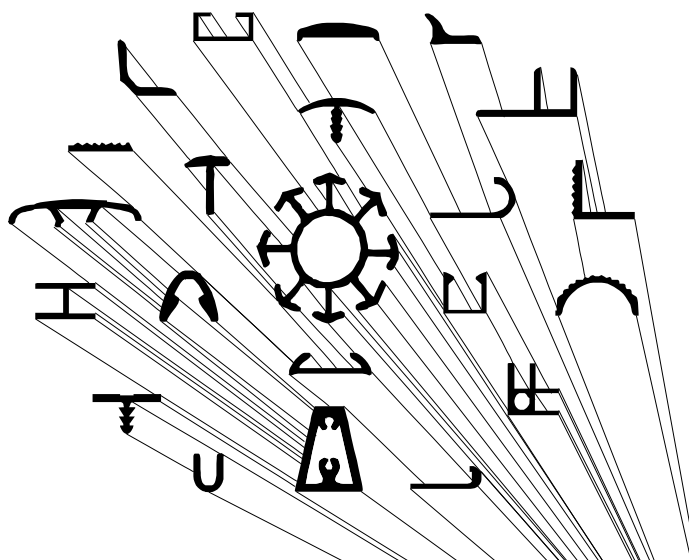
°Card holders for electronics in aluminum type DIN 43700

°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

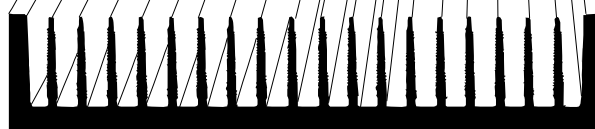
°Profiles for pneumatics

°Profiles for stands

°Skirting board profiles
skirting board covers

°Products derived from aluminum profiles

°Machining aluminum profiles



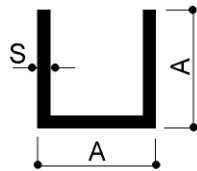
Via Newton, n.12
20016 Pero (Milano - Italy)
Tel.+39 02 3535955 r.a.
Fax.+39 02 3539929
E.Mail: info@omar-alluminio.it

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



For more dimensions of aluminum channels, visit the site:

www.canalini-alluminio.it

EQUAL SIDED CHANNELS

CANALINI LATI UGUALI	A	S	GR/MT	CANALINI LATI UGUALI	A	S	GR/MT
CU 6x6x1	6	1	43	CU 30x30x1,2	30	1,2	283
CU 7x7x1	7	1	51	CU 30x30x2	30	2	464
CU 7x7x1,2	7	1,2	60	CU 30x30x2,5	30	2,5	570
CU 8x8x1	8	1	59	CU 30x30x3	30	3	680
CU 9x9x1	9	1	68	CU 30x30x3,5	30	3,5	784
CU 10x10x1	10	1	76	CU 30x30x4	30	4	890
CU 10x10x1,2	10	1,2	89	CU 30x30x5	30	5	1077
CU 10x10x1,25	10	1,25	93	CU 35x35x1,5	35	1,5	413
CU 10x10x1,5	10	1,5	108	CU 35x35x2	35	2	545
CU 10x10x2	10	2	140	CU 35x35x3	35	3	802
CU 11x11x1,5	11	1,5	122	CU 40x40x1,5	40	1,5	470
CU 12x12x1	12	1	92	CU 40x40x2	40	2	626
CU 12x12x1,2	12	1,2	109	CU 40x40x2,5	40	2,5	776
CU 12x12x1,3	12	1,3	117	CU 40x40x3	40	3	923
CU 12x12x1,5	12	1,5	134	CU 40x40x4	40	4	1209
CU 12x12x1,8	12	1,8	157	CU 40x40x5	40	5	1484
CU 12x12x2	12	2	173	CU 43,5x43,5x3	43,5	3	1000
CU 12,5x12,5x1,5	12,5	1,5	140	CU 45x45x1,5	45	1,5	534
CU 13x13x2	13	2	189	CU 45x45x2	45	2	710
CU 14x14x2	14	2	205	CU 45x45x2,5	45	2,5	878
CU 15x15x1	15	1	108	CU 45x45x3	45	3	1045
CU 15x15x1,2	15	1,2	138	CU 45x45x4	45	4	1372
CU 15x15x1,5	15	1,5	170	CU 50x50x1,5	50	1,5	595
CU 15x15x2	15	2	221	CU 50x50x2	50	2	788
CU 15x15x2,5	15	2,5	270	CU 50x50x3	50	3	1166
CU 18x18x2	18	2	270	CU 50x50x4	50	4	1533
CU 19x19x1,5	19	1,5	219	CU 50x50x4,5	50	4,5	1713
CU 19x19x3	19	3	410	CU 50x50x5	50	5	1890
CU 20x20x1	20	1	165	CU 50x50x6	50	6	2236
CU 20x20x1,2	20	1,2	186	CU 55x55x1,5	55	1,5	656
CU 20x20x1,5	20	1,5	231	CU 55x55x2	55	2	869
CU 20x20x1,7	20	1,7	259	CU 60x60x2	60	2	950
CU 20x20x2	20	2	302	CU 60x60x3	60	3	1409
CU 20x20x3	20	3	437	CU 60x60x4	60	4	1858
CU 22x22x2	22	2	335	CU 60x60x5	60	5	2295
CU 23x23x1,2	23	1,2	224	CU 65x65x1,8	65	1,8	912
CU 23x23x1,5	23	1,5	267	CU 70x70x2	70	2	1112
CU 23x23x1,9	23	1,9	334	CU 70x70x4	70	4	2182
CU 23x23x2,5	23	2,5	432	CU 70x70x10	70	10	5130
CU 25x25x1,3	25	1,3	254	CU 80x80x3	80	3	1895
CU 25x25x1,5	25	1,5	292	CU 80x80x4	80	4	2506
CU 25x25x2	25	2	384	CU 90x90x4	90	4	2832
CU 25x25x2,5	25	2,5	473	CU 100x100x2,3	100	2,3	1836
CU 25x25x3	25	3	559	CU 100x100x2,5	100	2,5	1991
CU 25x25x4	25	4	724	CU 100x100x7	100	7	5405

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

* All dimensions are expressed in mm

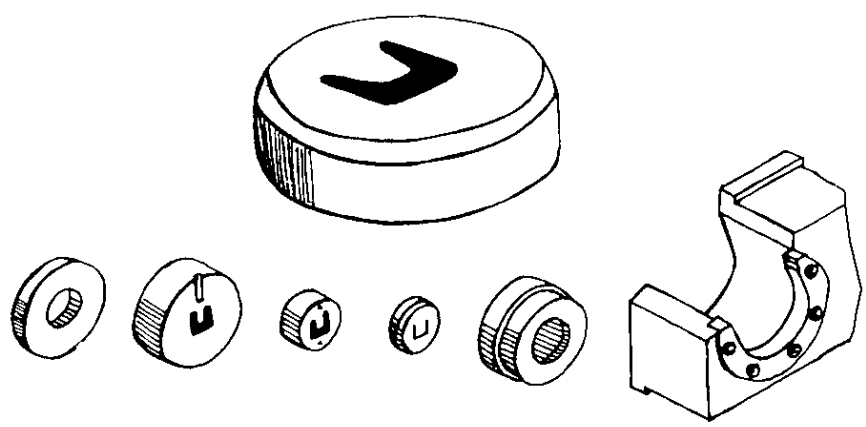
Via Newton, n. 12
20016 Pero (Milano - Italy)
Tel. +39 02 3535955 r.a. Fax. +39 02 3539929
E-Mail: info@omar-alluminio.it

Cataloghi Online: www.omar-alluminio.it
www.omar-alluminio.com

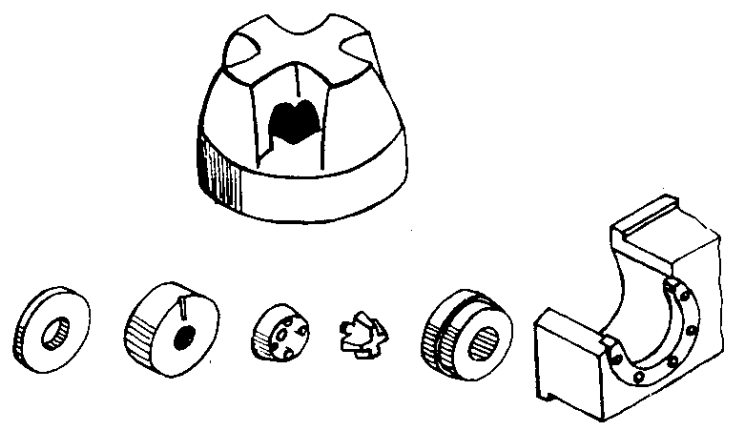
CUSTOM ALUMINIUM PROFILES / STANDARD / SPECIAL / AND FOR:
ELECTRONICS / LED / PHOTOVOLTAIC / ROBOTIC AUTOMATION / PNEUMATICS / AUTOMOTIVE

OMAR s.p.a.
PROFILATI ALLUMINIO
ALTA TECNOLOGIA

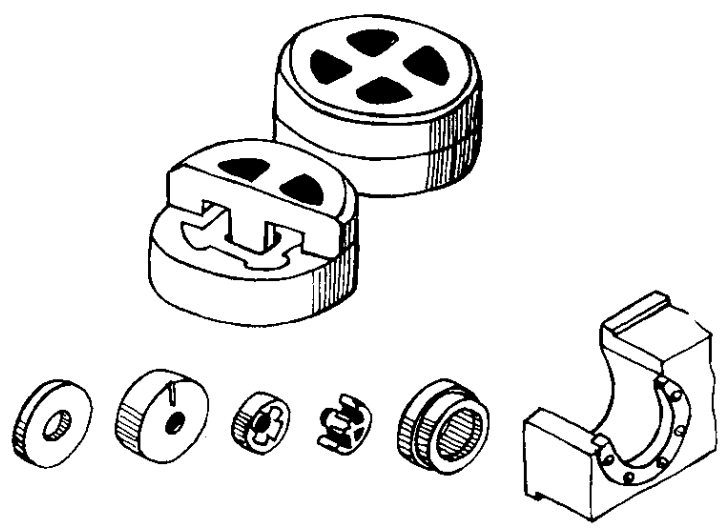
A) flat matrix for open profile



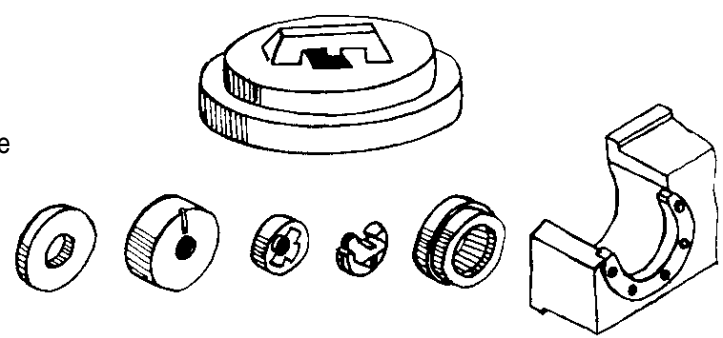
B) Spyder matrix for hollow profile



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

www.omar-alluminio.com

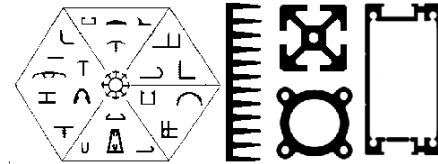
CUSTOM ALUMINUM PROFILE / STANDARD / SPECIAL / AND FOR:
450
630
ELECTRONICS / LED / PHOTOVOLTAIC / ROBOTIC AUTOMATION / PNEUMATICS / AUTOMOTIVE



Via Newton, n.12
20016 Pero (Milano - Italy)
Tel. +39 02 3535955 r.a. Fax. +39 02 3539929
E-Mail: info@omar-alluminio.it

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	Diámetro D		Carico	Di rottura a	Carico di	Rottura a	Allungamento					
		o spess. S	[mm] per tondi,					Trazione	Rm [Mpa]	Trazione	Rm [Mpa]	A %	A50 mm%
		o spess. Di parete	e per profili										
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	anodica		Resistenza alla corrosione		
		a freddo	a caldo					protettiva	decorativa	urbana	industriale	marina
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	

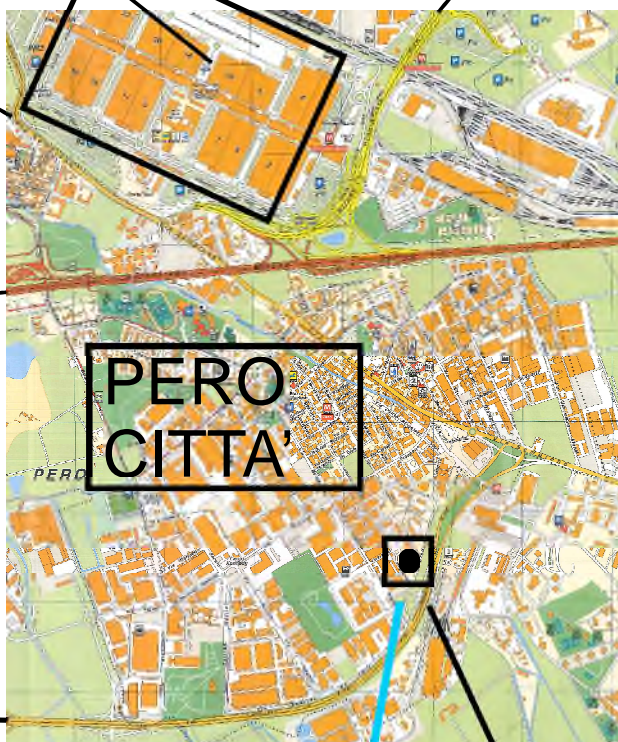
EVALUATION INDEX: 1=EXCELLENT 2=GOOD 3=SUFFICIENT 4=MEDIOCRE 5=POOR X=NOT APPLICABLE TO STATES T5 AND T6



FIERA MILANO RHO - PERO

MONZA

AUTOSTRADA
MILANO-TORINO
TANGENZIALE
OVEST



AUTOSTRADA
MILANO-VENEZIA

MILANO CITTA'
VIA GALLARATE

TANGENZIALE OVEST

DIREZIONE GENOVA DIREZIONE TORINO

USCITA PERO SUD ZONA
INDUSTRIALE



OMAR s.r.l.
PROFILATI ALLUMINIO
ALTA TECNOLOGIA

Via Newton, n.12
20016 Pero (Milano - Italy)
Tel.+39 02 3535955 r.a.
Fax.+39 02 3539929
E.Mail: info@omar-alluminio.it

Consult our updated catalogue online at:

www.omar-alluminio.it

www.omar-alluminio.com

www.omar-alluminio.eu

ALUMINUM PROFILES
CUSTOM-DECORATED-STANDARD-SPECIAL



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