



ALLUMINIO  
**VALCOM'S**





## CATALOGO GENERALE

- //// Profili / tubi / lamiera / nastri
- //// Barre per lavorazione ad alta velocità
- //// Studio e realizzazione di profili a disegno
- //// Spianatura e taglio a misura nastri e lamiera



## SEMILAVORATI IN ALLUMINIO

### ESPERIENZA

Valcom's vanta una **profonda conoscenza** delle leghe di alluminio, dei mercati d'incetta e collocamento, ed ha un ruolo ben consolidato in Italia e all'Estero.

### FLESSIBILITÀ

Valcom's assicura un **servizio completo**: dal semilavorato di alluminio al prodotto finito, con la possibilità di personalizzare alcune lavorazioni, per rendere il prodotto pronto allo specifico utilizzo richiesto dal Cliente.

### RAPIDITÀ

Valcom's garantisce **tempi brevi per l'evasione degli ordini** in quanto dispone di un ampio assortimento di materiali, accessori e prodotti affini, sempre pronti a stock.

“ La logica vi porterà da A a B.  
L'immaginazione vi porterà dappertutto. ”

ALBERT EINSTEIN

## CRITERI DI SCELTA DELLE BARRE NELLE LEGHE IN ALLUMINIO

LEGA	STATO	DEFORMAZIONE PLASTICA A FREDDO	LAVORAZIONE ALL'UTENSILE	RESISTENZA ALLA CORROSIONE		ANODIZZAZIONE			SALDABILITÀ		
				Atmosferica	Marina	Protettiva	Decorativa	Dura	Mig. Tig.	Per resistenza	Brasatura
2014	T4	I	S	S	I	S	I	I	S	B	I
2017A	T4	I	S	S	I	S	I	I	S	B	I
2024	T3	I	S	S	I	S	I	I	S	B	I
2007	T4	I	B	S	I	S	I	I	I	I	I
2011	T3	S	O	S	I	S	I	I	I	S	I
	T8	I	O	S	I	S	I	I	I	S	I
2033	T3	S	O	S	I	S	S	S	I	B	I
	T8	S	O	S	I	S	S	S	I	B	I
6060	T1	O	I	O	B	O	O	O	O	O	O
	T5	B	I	O	B	O	O	O	O	O	O
	T6	S	S	O	B	O	O	O	O	O	O
6063	T6	S	S	O	B	O	O	O	O	O	O
6005A	T6	S	S	O	B	O	O	O	O	O	O
6082	T6	S	S	O	B	B	B	O	O	O	O
6061	T6	S	S	O	B	B	B	O	O	O	O
6262	T6	S	B	B	S	B	B	O	B	B	S
	T9	I	B	B	S	B	B	O	B	B	S
6026 6026 LF	T6	I	B	B	S	B	B	O	B	B	S
	T9	I	B	B	S	B	B	O	B	B	S
7003	T6	S	S	B	S	B	B	S	O	O	O
7075	T6	I	S	B	I	B	B	O	S	B	B

O = Ottima    B = Buona    S = Sufficiente    I = Insufficiente/sconsigliabile

## CRITERI DI SCELTA DELLE LAMIERE NELLE LEGHE IN ALLUMINIO

LEGA	STATO	RESISTENZA ALLA CORROSIONE			ATTITUDINE AI TRATTAMENTI SUPERFICIALI			FORMATURA			SALDATURA	
		Atmosfere normali	Atmosfere marine	Tensocorrosione	Lucidabilità	Anodizzazione protettiva	Anodizzazione decorativa	Piegatura a freddo	Imbutitura	Lavorazione all'utensile	In gas	Per resistenza
1050A 1200	O	O	B	O	B	O	B	O	O	I	B	B
	H24	O	B	O	O	O	B	B	B	S	B	B
	H18	O	B	O	O	O	B	S	I	S	B	B
3003 3103 3105	O	O	B	O	B	O	B	O	O	I	O	O
	H24	O	B	O	O	O	B	B	B	S	O	O
	H18	O	B	O	O	O	B	S	S	S	O	O
5005	O	B	B	O	S	B	B	O	O	I	B	B
	H34	B	B	O	B	B	B	B	B	S	B	B
	H36	B	B	O	O	B	B	S	S	S	B	B
5052	O	O	O	O	S	B	B	B	B	I	O	O
	H34	O	O	O	B	B	B	S	S	S	O	O
	H18	O	O	O	O	B	B	I	I	B	O	O
5754	O	O	O	O	S	B	B	B	B	S	O	O
	H34	O	O	O	B	B	B	S	S	S	O	O
	H36	O	O	O	O	B	B	S	S	B	O	O
5154B	O	O	O	O	B	B	B	B	B	S	B	B
	H34	O	O	O	B	B	B	S	S	B	B	B
	H36	O	O	O	B	B	B	I	I	B	B	B
5083	O	B	B	B	S	S	I	B	I	B	B	B
6082	O	B	B	O	B	O	B	O	O	S	B	B
	T4	O	B	B	O	O	O	B	S	B	B*	B*
	T6	O	B	O	O	O	O	S	I	O	B**	B**
7020	T6	S	S	S	O	B	S	S	I	B	O**	O**
7075	O	S	I	S	B	S	S	I	I	I	S**	S**
	T6	S	I	S	B	S	S	I	I	I	S**	S**

TUBI

PROFILI L / T / U

PROFILI SPECIALI

PNEUMATICA

PROFILI STRUTTURALI

NASTRIE LAMIERE

O = Ottima    B = Buona    S = Sufficiente    I = Insufficiente/sconsigliabile

\* con decremento delle caratteristiche meccaniche

\*\* con parziale recupero delle caratteristiche meccaniche

## Raggio di piegatura a 90° per laminati in alluminio e leghe

		FATTORE DI MOLTIPLICAZIONE DELLO SPESSORE PER OTTENERE IL RAGGIO DI PIEGA							
LEGA	STATO	s<0,35	0,35<s<0,8	0,8<s<1,6	1,6<s<3,2	3,2<s<4,8	4,8<s<6	6<s<10	s>10
1050A 1200	O-H111	0	0	0	0	0.5	1	1	1.5
	H22	0	0	0	0.5	1	1	1.5	2
	H24	0	0	0.5	1	1	1.5	2	2.5
	H26	0	0.5	1	1.5	2	2	3	-
	H18	1	1	2	3	3.5	-	-	-
3103 3105	O-H111	0	0	0	0	0.5	1	1	1.5
	H22	0	0	0.5	0.75	1	1.25	1.5	2
	H24	0	0.5	0.75	1	1.5	2	2	2.5
	H26	0.5	1	1.5	2	2.5	-	-	-
	H18	1	1.5	2.5	3	4.5	-	-	-
3003	O-H111	0	0	0	0	0.5	1	1	1.5
	H24	0	0.5	0.75	1	1.5	2	2	2.5
	H18	1	1.5	2.5	3	4.5	-	-	-
5005	O-H111	0	0	0	0	0.5	1	1	1.5
	H32	0	0	0.5	0.75	1	1.25	1.5	2
	H34	0	0.5	0.75	1	1.5	2	2	2.5
	H36	0.5	1	1.5	2	2.5	-	-	-
	H38	1	1.5	2.5	3	4.5	-	-	-
5052	O-H111	0	0	0	0.5	1	1.25	1.5	2
	H32	0	0.5	1	1.5	1.5	1.5	2	2.5
	H34	0.5	1	1.5	2	2	2.5	2.5	3
	H36	1	1.5	2	3	3.5	3.5	-	-
5154B	O-H111	0	0.5	1	1	1.25	1.5	2	-
	H32	0.5	1	1.5	2	2	2.5	3	-
	H34	0.5	1.5	2	2.5	3	3.5	4	-
5083	O-H111	0	0	0.5	1	1.25	1.5	2	2.5
5754	O-H111	0	0	0.5	1	1	1.25	1.5	2
	H32	0	0.5	1	1.5	1.5	1.5	2	2.5
	H34	0.5	1	1.5	2	2	2.5	2.5	3
	H36	1	1.5	2	3	3.5	3.5	-	-
6082	O	0	0	0.5	1	1.5	1.75	2	2.5
	T4	0.5	1	1.5	2	2.5	3	3.5	4
	T6	1.5	2	2.5	3.5	4	4.5	5	6
	T651	1	1.5	2	2.5	3.5	4	-	-
7020	T4	1	1.5	2	2.5	3	3.5	4	5
	T6	2	3	3.5	4	5	5.5	6	-



## NORME EUROPEE PER PRODOTTI IN LEGHE DI ALLUMINIO

### PROFILI E BARRE

NORME EN		DESCRIZIONE
Estrusi	Trafilati	
755-1	754-1	Condizioni tecniche di fornitura
12020-1	-	Condizioni tecniche di fornitura: profilati di precisione in lega 6060 e 6063
573-3	573-3	Composizione chimica
515	515	Stati metallurgici
755-2	754-2	Proprietà meccaniche
755-3	754-3	Tolleranze dimensionali: barre tonde
755-4	754-4	Tolleranze dimensionali: barre quadre
755-5	754-5	Tolleranze dimensionali: barre piatte
755-6	754-6	Tolleranze dimensionali: barre esagonali
755-7	754-7	Tolleranze dimensionali: tubi estrusi senza saldatura
755-8	754-8	Tolleranze dimensionali: tubi estrusi con filiere a ponte
755-9	-	Tolleranze dimensionali: profilati
12020-2	-	Tolleranze dimensionali: profilati di precisione in lega 6060 e 6063
10204	10204	Tipo di certificato

### LAMIERE E PIASTRE

NORME EN	DESCRIZIONE
485-1	Alluminio e leghe di alluminio - Lamiere, nastri e piastre - Condizioni tecniche di collaudo e fornitura
485-2	Alluminio e leghe di alluminio - Lamiere, nastri e piastre - Caratteristiche meccaniche
485-3	Alluminio e leghe di alluminio - Lamiere, nastri e piastre - Tolleranze dimensionali e di forma dei prodotti laminati a caldo
485-4	Alluminio e leghe di alluminio - Lamiere, nastri e piastre - Tolleranze dimensionali e di forma dei prodotti laminati a freddo



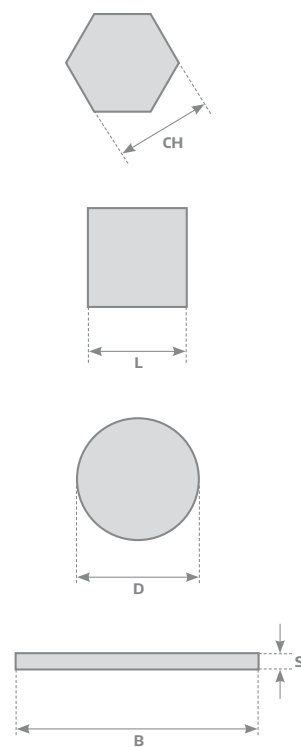
## LAVORAZIONI DI QUALITÀ

Nel corso degli anni, **Valcom's** ha ampliato la gamma dei propri servizi inserendo al suo interno un **reparto dedicato esclusivamente al taglio delle lamiere**, costituito da un **doppio pantografo a CNC montato su un banco da 36 metri di lunghezza**, per servire il **settore della carpenteria navale** ed **ha creato e gestisce una rete di imprese che possono fornire al committente finale tutta la carpenteria assemblata saldata**.

Nel 2018 è entrato in funzione il **nuovo impianto di taglio piastre fino a 200 mm di spessore** che garantisce tolleranze centesimali nel taglio e nella squadratura, corredato di un innovativo sistema di estrazione trucioli durante la fase di taglio. Un sistema che, abbinato alla movimentazione del materiale mediante ventose, garantisce l'assenza di graffi superficiali sul materiale.

✓ Realizziamo profili speciali commerciali e su disegno del cliente, servizi di spianatura e taglio a misura di coils, lamiere, piastre, barre e profili





# BARRE



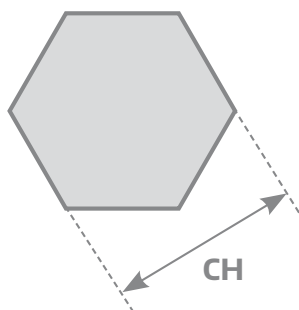
//// Barre esagonali

//// Barre quadre

//// Barre tonde

//// Barre piatte

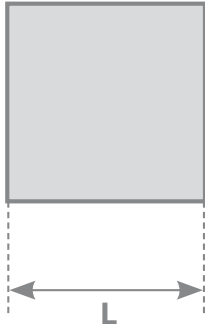
## BARRE ESAGONALI



### Lega 2011 - 2033

CH	kg/ml
6	0,084
7	0,107
8	0,155
10	0,242
12	0,350
13	0,409
14	0,475
15	0,545
16	0,620
17	0,700
18	0,785
19	0,875
20	0,969
21	1,069
22	1,173
24	1,396
25	1,515
27	1,767
28	1,901
30	2,182
32	2,485
34	2,803
35	2,970
36	3,142
38	3,500
40	3,879
45	4,910
46	5,131
50	6,062
55	7,335

## BARRE QUADRE



L	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026 LF	Lega 6060	Lega 6082	Lega 7020
4	0,044			*		
5	0,068			*		
6	0,108	*		*		
7	0,136	*				
8	0,173	*		*		
10	0,280	*		*		
12	0,389	*		*		
15	0,630	*		*	*	
16	0,716	*				
20	1,080	*		*	*	
25	1,688	*		*	*	
30	2,430	*	*	*	*	
35	3,430	*			*	
40	4,320	*			*	
45	5,468	*			*	
50	6,750	*			*	
55	8,170	*			*	
60	9,720	*	*		*	
65	11,408	*			*	
70	13,720	*			*	
75	15,750	*			*	
80	17,280	*	*		*	
85	19,508	*			*	
90	21,870	*			*	
95	25,270	*				
100	27,000	*			*	
110	32,670	*			*	
115	37,000				*	
120	38,880	*	*		*	
130	45,650	*			*	
140	52,950	*			*	*
150	60,750	*			*	
160	71,680	*				
180	90,000	*			*	
190	98,000	*				
200	108,000	*			*	

TUBI

PROFILI L / T / U

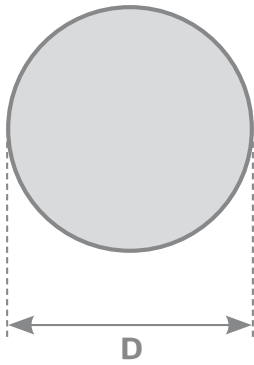
PROFILI SPECIALI

PNEUMATICA

PROFILI STRUTTURALI

NASTRIE LAMIERE

## BARRE TONDE



D	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026 LF	Lega 6060	Lega 6082	Lega 7075
4	0,036	*				
5	0,054	*		*		
6	0,077	*		*		
7	0,108	*				
8	0,136	*	*	*		*
9	0,178	*				
10	0,212	*	*	*	*	*
11	0,266	*				
12	0,306	*	*	*	*	*
13	0,359	*	*	*	*	*
14	0,416	*	*	*	*	*
15	0,477	*	*	*	*	*
16	0,543	*	*	*	*	*
17	0,635	*	*			*
18	0,687	*	*	*	*	*
19	0,793	*				
20	0,870	*	*	*	*	*
21	0,969	*				
22	1,026	*	*	*	*	*
23	1,163	*	*		*	
24	1,266	*	*			
25	1,325	*	*	*	*	*
26	1,486	*	*		*	*
27	1,603	*	*			*
28	1,720	*	*		*	*
30	1,909	*	*	*	*	*
31	2,113	*	*			
32	2,250	*	*		*	*
33	2,394	*				
34	2,542	*	*			
35	2,690	*	*		*	*
36	2,850	*	*		*	



D	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060	Lega 6082	Lega 7075
38	3,170	*	*		*	
40	3,510	*	*	*	*	*
41	3,690		*			
42	3,879	*	*		*	*
45	4,550	*	*		*	*
46	4,653	*				
48	5,066	*	*		*	
50	5,490	*	*	*	*	*
52	5,935	*	*			
53	6,175	*				
55	6,652	*	*	*	*	*
58	7,357		*			
60	7,910	*	*		*	*
65	9,920	*	*		*	*
70	10,775	*	*	*	*	*
75	12,370	*	*		*	*
80	14,074	*	*	*	*	*
82	14,786	*	*		*	
85	15,880	*	*		*	*
90	17,810	*	*	*	*	*
95	19,838	*	*		*	*
100	21,991	*	*	*	*	*
105	23,368	*	*		*	
110	25,650	*	*		*	*
115	28,045	*	*	*	*	
120	30,536	*	*	*	*	*
125	33,400	*	*		*	*
127	34,185				*	
130	35,838	*	*	*	*	*
135	38,648	*	*		*	
140	41,563	*	*	*	*	*
145	44,586	*	*		*	

D	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060	Lega 6082	Lega 7075
150	47,713	*	*		*	*
152	50,809	*				
155	52,834	*			*	
160	56,297	*	*		*	*
170	63,550	*	*		*	*
180	71,250	*	*		*	*
190	79,340	*	*		*	
200	87,920	*	*		*	*
210	96,980	*			*	
220	106,430	*			*	*
230	116,330	*			*	*
240	126,660	*			*	*
250	137,440	*	*		*	*
260	148,660	*			*	*
270	160,230	*			*	
280	172,410	*			*	
300	197,920	*			*	*
310	211,200	*			*	
320	225,190	*			*	*
330	239,360	*			*	
340	254,090	*			*	
350	269,255	*			*	*
360	284,860	*			*	
370	300,906	*			*	
380	317,553	*			*	
400	351,859	*			*	*
420	385,950	*			*	
430	406,410	*			*	
450	445,321	*			*	*
480	506,419	*			*	
500	549,500	*			*	
530	617,500				*	

TUBI

PROFILI L / T / U

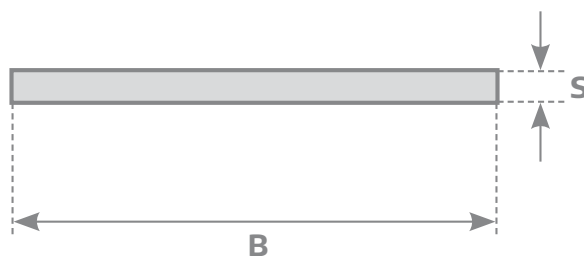
PROFILI SPECIALI

PNEUMATICA

PROFILI STRUTTURALI

NASTRIE LAMIERE

## BARRE PIATTE



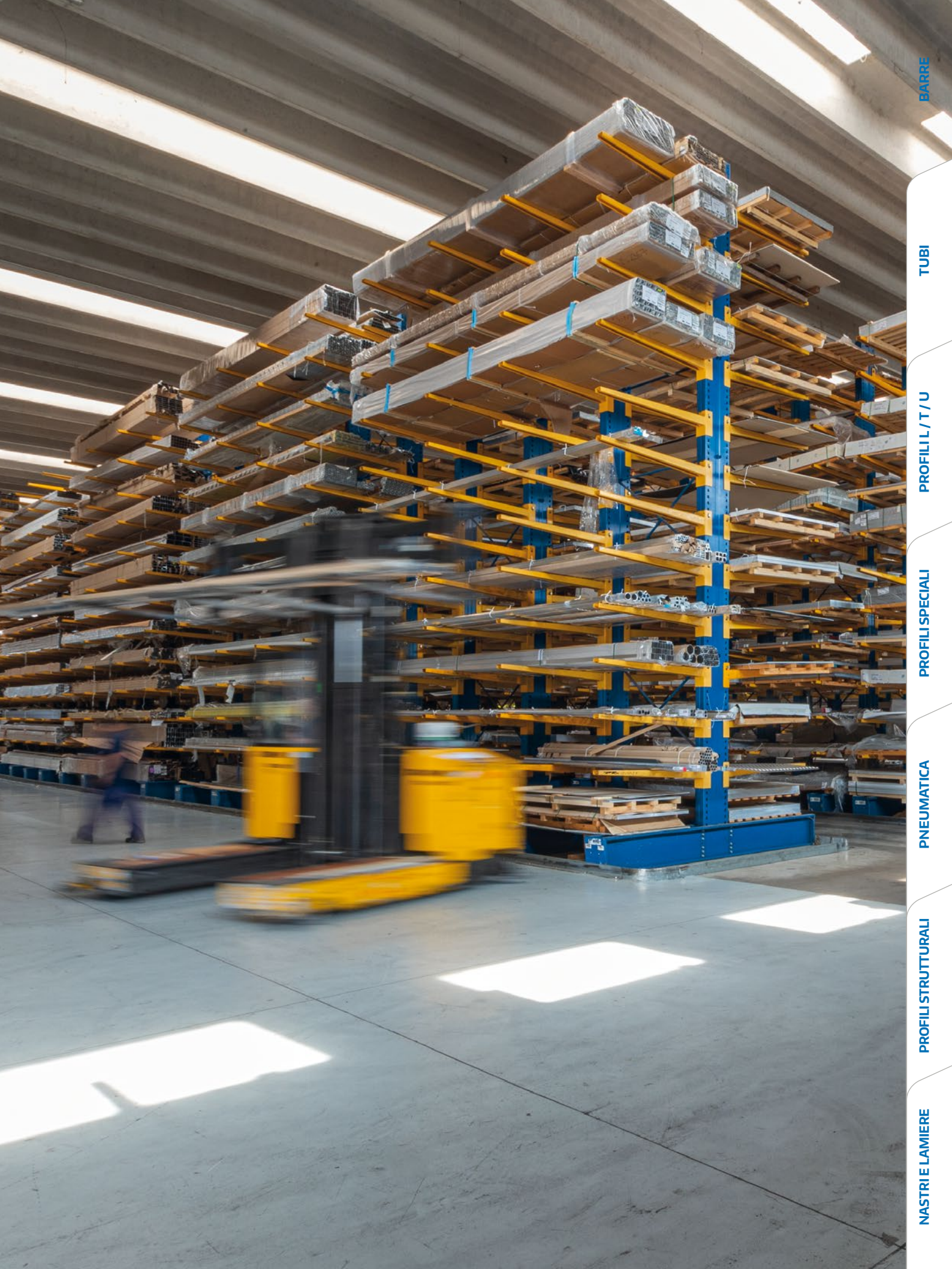
B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060 6082	Lega 7003 7020
10	2	0,054			*	
10	3	0,081			*	
10	4	0,108			*	
10	5	0,135			*	
10	6	0,165			*	
10	8	0,216			*	
15	2	0,081			*	
15	3	0,121			*	
15	4	0,162			*	
15	5	0,203			*	
15	6	0,243			*	
15	8	0,324			*	
15	10	0,405			*	
20	2	0,108			*	
20	3	0,162			*	
20	4	0,216			*	
20	5	0,270			*	
20	6	0,324			*	
20	8	0,432			*	
20	10	0,540			*	
20	12	0,648			*	
20	15	0,810			*	
25	2	0,135			*	
25	3	0,203			*	
25	4	0,270			*	
25	5	0,337			*	
25	6	0,405			*	
25	8	0,540			*	
25	10	0,675			*	
25	12	0,810	*		*	
25	15	1,013			*	
25	20	1,350			*	
30	2	0,162			*	
30	3	0,243			*	
30	4	0,324			*	
30	5	0,405			*	
30	6	0,486			*	

B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060 6082	Lega 7003 7020
30	8	0,650			*	
30	10	0,810			*	
30	12	0,972			*	
30	15	1,250			*	
30	20	1,620			*	
30	25	2,025			*	
35	2	0,189			*	
35	3	0,284			*	
35	4	0,378			*	
35	5	0,473			*	
35	6	0,567			*	
35	8	0,756			*	
35	10	0,945			*	
35	12	1,134			*	
35	15	1,418			*	
35	20	1,890	*		*	
35	25	2,363			*	
40	2	0,216			*	
40	3	0,324			*	
40	4	0,432			*	
40	5	0,540			*	
40	6	0,648			*	
40	8	0,864			*	
40	10	1,080			*	
40	12	1,296			*	
40	15	1,620			*	
40	20	2,160	*		*	
40	25	2,700	*		*	
40	30	3,240	*		*	
45	2	0,243			*	
45	5	0,608			*	
45	10	1,215			*	
45	15	1,823			*	
45	20	2,430			*	
45	25	3,040			*	
45	30	3,645	*	*	*	
50	2	0,270			*	

B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026 LF	Lega 6060 6082	Lega 7003 7020	B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026 LF	Lega 6060 6082	Lega 7003 7020
50	3	0,405			*		70	20	3,780			*	
50	4	0,540			*		70	25	4,725			*	
50	5	0,675			*		70	30	5,670	*		*	
50	6	0,810			*		70	35	6,615	*		*	
50	8	1,080			*		70	40	7,560	*		*	
50	10	1,350			*		70	50	9,450	*		*	
50	12	1,620			*		70	60	11,340			*	
50	15	2,025			*		80	3	0,648			*	
50	20	2,700			*		80	4	0,865			*	
50	25	3,375			*		80	5	1,080			*	
50	30	4,050	*		*		80	6	1,296			*	*
50	35	4,725	*		*	*	80	8	1,728			*	
50	40	5,400	*		*		80	10	2,160			*	
60	2	0,325			*		80	12	2,600			*	
60	3	0,486			*		80	15	3,240			*	
60	4	0,648			*		80	20	4,320			*	
60	5	0,810			*		80	25	5,400			*	
60	6	0,972			*		80	30	6,480	*		*	*
60	8	1,296			*		80	35	7,600	*		*	
60	10	1,620			*		80	40	8,640	*		*	
60	12	1,944			*		80	50	10,800	*		*	
60	15	2,430			*		80	60	12,960	*		*	
60	20	3,240			*		80	70	15,120	*		*	*
60	25	4,050			*		90	6	1,460			*	
60	30	4,860	*	*	*	*	90	10	2,430			*	
60	35	5,670	*		*		90	12	2,916			*	
60	40	6,480	*		*		90	15	3,645			*	
60	45	7,290	*		*		90	20	4,860			*	
60	50	8,100	*		*		90	25	6,100			*	
65	35	6,143	*				90	30	7,290	*	*	*	
65	40	7,020			*		90	40	9,720	*		*	
65	45	8,190	*				90	45	11,340	*		*	
70	3	0,567			*		90	50	12,150	*		*	
70	4	0,756			*		90	60	14,580	*	*	*	
70	5	0,945			*		90	70	17,100	*		*	
70	6	1,134			*		100	3	0,810			*	
70	8	1,512			*		100	4	1,080			*	
70	10	1,890			*		100	5	1,350			*	
70	12	2,270			*		100	6	1,620			*	
70	15	2,835			*		100	8	2,160			*	*

B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060 6082	Lega 7003 7020
100	10	2,700			*	
100	12	3,240			*	
100	15	4,050			*	
100	20	5,400			*	
100	25	6,750			*	*
100	30	8,100	*		*	
100	35	9,450			*	
100	40	10,800	*		*	
100	50	13,500	*		*	
100	60	16,200	*		*	
100	70	18,900	*		*	
100	80	21,600			*	
120	5	1,620			*	
120	6	1,945			*	
120	8	2,592			*	
120	10	3,240			*	
120	12	3,888			*	
120	15	4,860			*	
120	20	6,480			*	
120	25	8,100			*	
120	30	9,720			*	
120	35	11,350			*	
120	40	12,960	*		*	
120	50	16,200	*		*	
120	60	19,440	*		*	
120	70	22,680	*		*	
120	80	25,920			*	
120	100	32,400			*	
125	20	6,750			*	
130	15	5,270			*	
130	20	7,050			*	
130	30	10,530			*	
130	40	14,040			*	
130	80	28,080			*	
140	15	5,700			*	
140	20	7,600			*	
140	30	11,340			*	
140	40	15,120			*	
150	5	2,025			*	
150	6	2,430			*	

B	S	kg/ml	Lega 2007 2011 2030 2033	Lega 6012 6026 6026LF	Lega 6060 6082	Lega 7003 7020
150	8	3,240			*	
150	10	4,050			*	
150	12	4,860			*	
150	15	6,075			*	
150	20	8,100			*	
150	25	10,125			*	
150	30	12,150			*	
150	35	14,180			*	
150	40	16,200			*	
150	50	20,250			*	
150	60	24,300	*		*	
150	80	32,500			*	
160	10	4,320			*	
160	12	5,180			*	
160	15	6,480			*	
180	8	3,890			*	
180	10	4,860			*	
180	15	7,290			*	
180	20	9,720			*	
180	25	12,150			*	
180	35	17,010			*	
180	45	21,870			*	
180	80	38,880			*	
200	6	3,240			*	
200	8	4,320			*	
200	10	5,400			*	
200	12	6,480			*	
200	15	8,100			*	
200	20	10,800			*	
200	25	13,500			*	
200	30	16,200			*	
200	40	21,600			*	
200	50	27,000			*	
200	60	32,400			*	
220	8	4,752			*	
220	15	8,910			*	
250	10	6,750			*	
250	15	10,125			*	
250	20	13,500			*	
250	25	16,880			*	



BARRE

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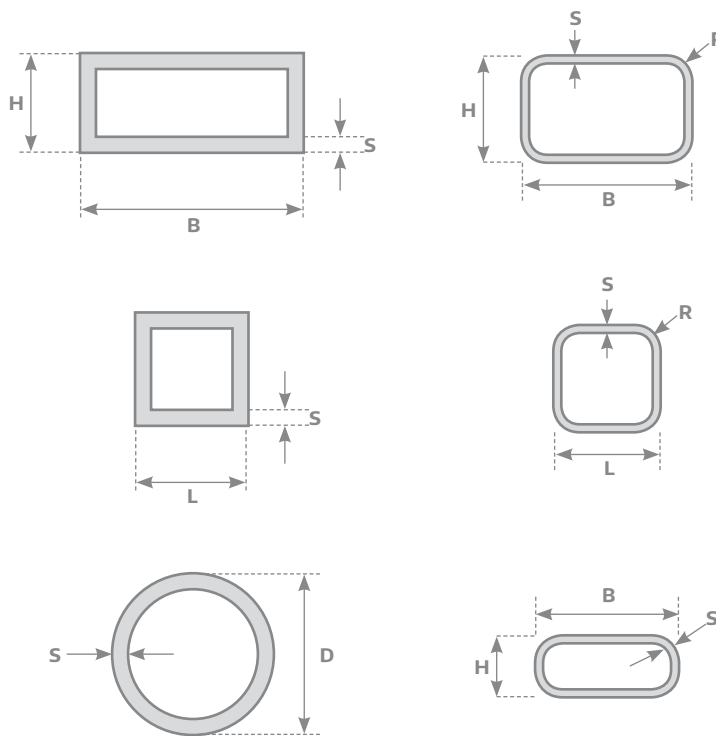
PROFILII SPECIALI

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PROFILII STRUTTURALI

NASTRI E LAMIERE



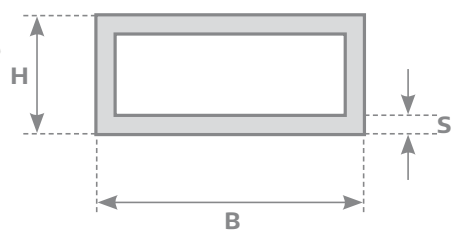


## TUBI



- //// Tubi rettangolari / quadri / tondi
- //// Tubi rettangolari raggiati
- //// Tubi quadrati raggiati
- //// Tubi tondi elettrosaldati
- //// Tubi ovali

## TUBI RETTANGOLARI



### Lega 6060

B	H	S	kg/ml
20	10	1,5	0,218
20	10	2	0,285
20	15	1,5	0,259
25	10	1,5	0,259
25	15	1,5	0,300
25	15	2	0,389
25	20	2	0,443
30	10	1,5	0,300
30	15	1,5	0,345
30	15	2	0,443
30	20	1,5	0,391
30	20	2	0,497
30	20	3	0,713
35	15	2	0,497
35	20	2	0,551
35	25	2	0,605
40	10	1,5	0,381
40	15	1,5	0,421
40	15	2	0,550
40	20	1,5	0,465
40	20	2	0,605
40	20	3	0,875
40	25	2	0,659
40	30	1,5	0,543
40	30	2	0,712
40	30	3	1,037
45	20	2	0,659
45	25	2	0,713
50	15	1,5	0,510
50	15	2	0,659
50	20	1,5	0,543
50	20	2	0,713



## Lega 6060

B	H	S	kg/ml
50	20	4	1,450
50	25	1,5	0,583
50	25	2	0,767
50	25	3	1,118
50	30	2	0,821
50	30	3	1,195
50	40	2	0,929
50	40	3	1,361
60	20	1,5	0,625
60	20	2	0,821
60	30	2	0,929
60	30	3	1,370
60	40	2	1,037
60	40	3	1,522
60	40	4	1,990
60	50	3	1,685
60	50	4	2,203
70	20	2	0,929
70	30	2	1,037
70	40	3	1,690
70	40	4	2,203
80	15	2	0,985
80	20	2	1,037
80	30	2	1,145
80	30	3	1,685
80	40	2	1,253
80	40	3	1,847
80	40	4	2,419
80	50	2	1,361
80	50	4	2,635
80	60	3	2,171

## Lega 6060

B	H	S	kg/ml
80	60	4	2,851
100	20	2	1,253
100	25	2	1,306
100	30	2	1,361
100	30	3	2,009
100	40	2	1,469
100	40	4	2,852
100	50	2	1,570
100	50	3	2,340
100	50	4	3,067
100	50	5	3,780
100	60	2	1,685
100	60	3	2,495
100	60	4	3,283
120	20	2	1,469
120	40	2	1,684
120	40	4	3,283
120	50	3	2,655
120	50	4	3,500
120	60	2	1,901
120	60	3	2,819
120	60	4	3,720
120	60	5	4,590
140	40	2	1,910
150	20	2	1,793
150	30	2,5	2,363
150	50	2,5	2,632
150	50	4	4,147
150	100	3	3,953
200	50	4	5,227
200	100	4	6,310

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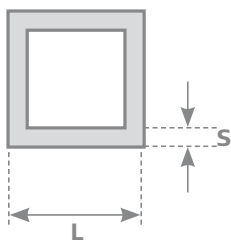
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## TUBI QUADRI



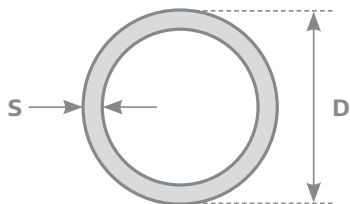
### Lega 6060

L	S	kg/ml
10	1	0,108
12	1	0,119
15	1,5	0,219
15	2	0,281
20	1	0,205
20	1,5	0,295
20	2	0,389
22	1,2	0,275
25	1,5	0,380
25	2	0,497
25	3	0,712
30	1,5	0,440
30	2	0,605
30	3	0,875
35	1,5	0,543
35	2	0,713
35	3	1,040
40	1,5	0,630
40	2	0,821
40	3	1,200
40	4	1,560
45	1,5	0,705
45	2	0,929

### Lega 6060

L	S	kg/ml
50	1,5	0,794
50	2	1,037
50	3	1,525
50	4	1,987
50	5	2,430
60	2	1,253
60	3	1,850
60	4	2,420
70	2	1,469
70	4	2,855
80	2	1,685
80	3	2,495
80	4	3,284
90	2,5	2,362
100	2	2,115
100	3	3,143
100	4	4,150
100	5	5,130
120	2,5	3,170
120	4	5,011
150	2,5	3,980
150	5	7,830
200	4	8,467

## TUBI TONDI



### Lega 6060 - 6063

D	S	kg/ml
6	1	0,042
8	1	0,060
9	1	0,068
10	1	0,076
10	1,5	0,108
10	2	0,150
10	2,5	0,180
11	1,25	0,104
12	1	0,093
12	1,5	0,134
12	2	0,170
13	1	0,102
14	1	0,110
14	1,5	0,159
14	2	0,204
15	1	0,119
15	1,5	0,172
15	2	0,221
16	1	0,127
16	1,5	0,184
16	2	0,238
18	1	0,144
18	1,5	0,210
18	2	0,272
18	3	0,381
20	1	0,161

### Lega 6060 - 6063

D	S	kg/ml
20	1,5	0,235
20	2	0,306
20	3	0,433
20	5	0,636
22	1	0,178
22	1,5	0,261
22	2	0,339
22	2,5	0,414
22	5	0,721
24	1	0,195
24	2	0,380
24	5	0,806
25	1	0,204
25	1,5	0,298
25	2	0,390
25	2,5	0,477
25	3	0,560
25	5	0,848
28	1,5	0,338
28	2	0,442
30	1	0,245
30	1,5	0,363
30	2	0,475
30	2,5	0,583
30	3	0,687
30	4	0,885
30	5	1,060
30	6	1,220
32	1	0,260
32	1,5	0,388
32	2	0,509
32	3	0,737
32	5	1,145
33	2	0,526
33	2,5	0,647
35	1	0,289
35	1,5	0,426
35	2	0,560
35	2,5	0,689
35	3	0,814
35	5	1,272

### Lega 6060 - 6063

D	S	kg/ml
38	1,5	0,464
38	3	0,891
40	1	0,331
40	1,5	0,490
40	2	0,645
40	2,5	0,795
40	3	0,942
40	5	1,485
40	7,5	2,067
40	10	2,545
40	12,5	2,916
42	2	0,679
42	5	1,568
45	1,5	0,554
45	2	0,730
45	2,5	0,900
45	3	1,069
45	5	1,695
45	7,5	2,385
45	10	2,967
45	12,5	3,450
48	3	1,145
48	4	1,493
48	5	1,823
50	1	0,416
50	1,5	0,617
50	2	0,814
50	2,5	1,077
50	3	1,196
50	5	1,908
50	7,5	2,700
50	10	3,392
50	12,5	3,980
50	15	4,451
55	2	0,899
55	2,5	1,113
55	5	2,121
55	8	3,188
55	10	3,816
60	1,5	0,744
60	2	0,984

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**Lega 6060 - 6063**

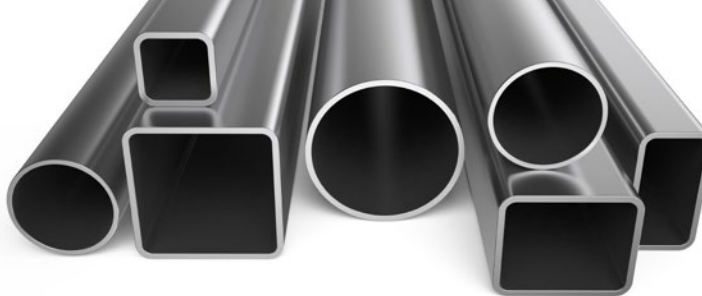
D	S	kg/ml
60	3	1,451
60	4	1,900
60	5	2,332
60	7,5	3,343
60	8	3,530
60	10	4,239
60	12,5	5,035
60	15	5,725
60	20	6,800
65	2	1,069
65	5	2,544
65	7,5	3,658
65	10	4,663
65	12,5	5,566
70	1,5	0,872
70	2	1,154
70	5	2,756
70	7,5	3,975
70	10	5,090
70	12,5	6,100
70	15	6,998
70	20	8,490
75	1,5	0,935
75	2	1,238
75	5	2,968
75	7,5	4,289
75	10	5,513
75	12,5	6,630
75	15	7,630
80	2	1,323
80	2,5	1,643
80	3	1,959
80	5	3,181
80	8	4,886
80	10	5,935
80	12,5	7,160
80	15	8,577
80	20	10,174
80	25	11,663
85	2,5	1,750
85	5	3,520

**Lega 6060 - 6063**

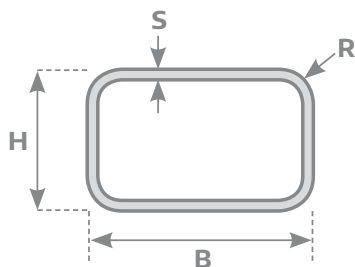
D	S	kg/ml
90	2	1,493
90	3	2,213
90	5	3,604
90	6	4,280
90	10	6,790
90	15	9,583
90	20	11,876
90	22,5	12,879
90	25	13,784
95	2,5	1,962
100	2	1,661
100	3	2,500
100	4	3,257
100	5	4,028
100	8	6,370
100	10	7,630
100	15	10,820
100	20	13,580
100	25	15,905
107	5	4,324
110	1,5	1,385
110	2,5	2,280
110	5	4,451
110	10	8,482
110	15	12,100
110	20	15,286
110	25	18,025
110	30	20,358
115	12,5	10,865
120	2,5	2,490
120	3	2,976
120	5	4,875
120	8	7,601
120	10	9,325
120	15	13,360
120	20	16,964
120	25	20,140
120	30	22,900
120	35	25,235
126	10	9,875
130	2,5	2,702

**Lega 6060 - 6063**

D	S	kg/ml
130	5	5,301
130	10	10,174
130	15	14,632
130	20	18,656
130	25	22,270
130	30	25,450
140	5	5,726
140	8	8,960
140	10	11,027
140	15	15,900
140	20	21,100
140	30	27,984
150	3	3,739
150	5	6,147
150	8	9,450
150	10	11,875
150	15	17,168
150	20	22,054
150	25	25,600
150	30	30,550
160	5	6,760
160	8	10,314
160	10	13,190
160	15	18,444
160	20	23,750
170	5	6,996
170	10	13,568
170	15	19,700
170	20	26,400
180	5	7,450
180	8	11,668
180	10	14,420
180	15	20,994
180	20	27,144
190	10	15,264
200	5	8,270
200	10	16,116
200	15	23,540
200	20	30,528
210	5	8,692
230	15	27,420

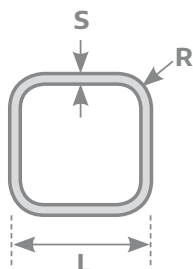


## TUBI RETTANGOLARI RAGGIATI



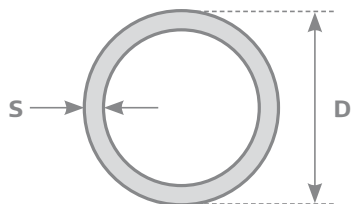
Codice	B	H	S	R	kg/ml	Lega 6060	Lega 6005
<b>VS 2693</b>	30	15	1,5	2	0,332		*
<b>VS 2918</b>	30	18	1,5	3,5	0,370	*	
<b>VS 2684</b>	30	20	2	1,5	0,492	*	
<b>VS 2955</b>	35	20	1,5	2	0,410		*
<b>VS 2699</b>	40	20	2	2	0,597		*
<b>VS 2585</b>	50	15	1,8	2	0,587	*	
<b>VS 2919</b>	50	20	2	2	0,710		*
<b>VS 2931</b>	60	30	3	3,5	1,370	*	
<b>VS 2728</b>	80	40	3	2,5	1,847	*	
<b>VS 2597</b>	120	30	2	5	1,540		*
<b>VS 2556</b>	120	60	5	7	4,490	*	

## TUBI QUADRATI RAGGIATI



Lega 6060				
Codice	L	S	R	kg/ml
<b>VS 2850</b>	20	2	1,5	0,380
<b>VS 2933</b>	25	1,5	3	0,365
<b>VS 2836</b>	25	2	3	0,496
<b>VS 2698</b>	30	1,5	2	0,477
<b>VS 2754</b>	30	2	2	0,595

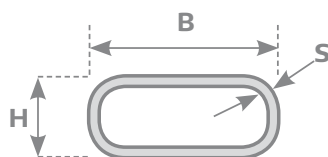
## TUBI TONDI ELETTROSALDATI



### Lega 5754

D	S	kg/ml
16	1,5	0,184
18	1,5	0,210
20	1,5	0,235
20	2	0,306
22	1,5	0,261
25	1,5	0,298
25	2	0,390
28	1,5	0,338
30	1,5	0,363
30	2	0,480

## TUBI OVALI



### Lega 6060

Codice	B	H	S	kg/ml
<b>VS 2687</b>	30	15	1,5	0,300
<b>VS 3099</b>	30	18	1,5	0,310
<b>VS 2536</b>	30	18	2	0,400
<b>VS 3549</b>	40	20	2	0,530
<b>VS 3847</b>	50	10	1,2	0,400



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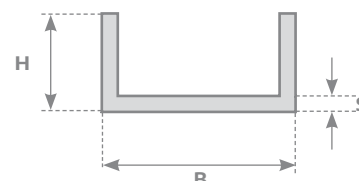
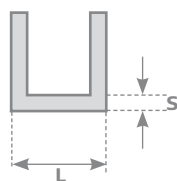
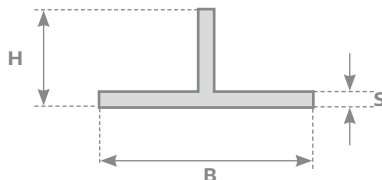
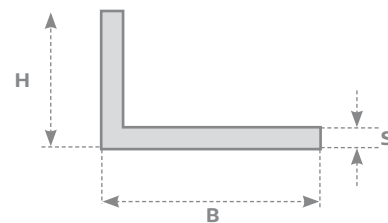
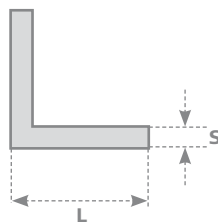
PNEUMATICA

PROFILI STRUTTURALI

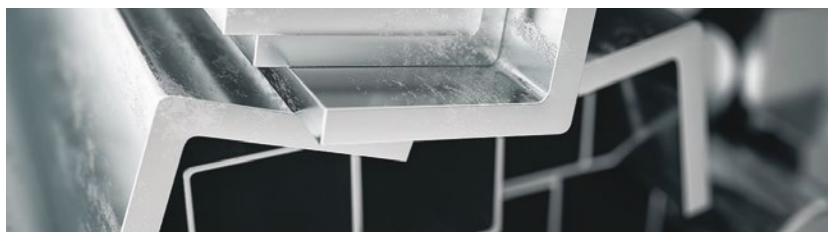
NASTRI E LAMIERE





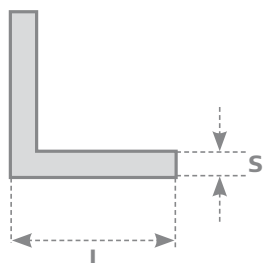


## PROFILI L / T / U

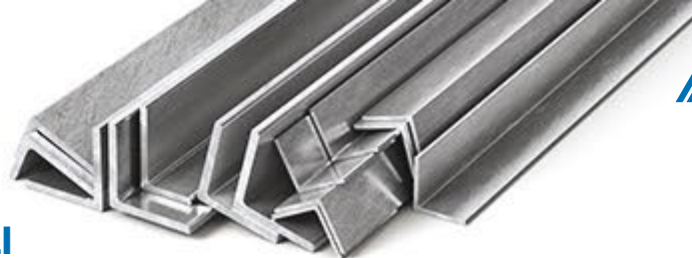


- //// Angolari lati uguali
- //// Angolari lati disuguali
- //// Profili T
- //// Profili U lati uguali
- //// Profili U lati disuguali

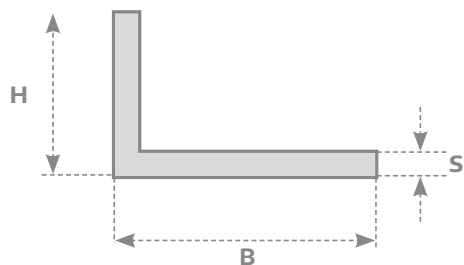
## ANGOLARI LATI UGUALI



L	S	kg/ml	Lega 6060	Lega 6082
10	1	0,054	*	
15	1,5	0,116	*	
15	2	0,152	*	
20	1,5	0,156	*	
20	2	0,206	*	
20	3	0,300	*	
25	2	0,260	*	
25	3	0,381	*	
30	1	0,160	*	
30	1,5	0,243	*	
30	2	0,314	*	
30	3	0,462	*	
30	4	0,605	*	
30	5	0,749	*	
35	2	0,368	*	
35	3	0,543	*	
40	1,5	0,318	*	
40	2	0,422	*	
40	3	0,623	*	*
40	4	0,821	*	
40	5	1,012	*	*
45	2	0,476	*	
50	2	0,530	*	
50	3	0,786	*	
50	4	1,060	*	
50	5	1,283	*	
50	10	2,430	*	
60	2	0,648	*	
60	4	1,295	*	
60	5	1,552	*	
60	6	1,842	*	
60	10	2,970	*	
80	3	1,275	*	
80	5	2,082	*	
80	8	3,283	*	*
80	10	4,050	*	
100	8	4,147	*	
100	10	5,140	*	*



## ANGOLARI LATI DISUGUALI



B	H	S	kg/ml	Lega 6060	Lega 6082
15	10	1,5	0,096	*	
15	10	2	0,125	*	
20	10	2	0,152	*	
20	15	2	0,179	*	
25	10	2	0,179	*	
25	15	1,5	0,165	*	
25	15	2	0,206	*	
25	15	3	0,312	*	
25	20	2	0,233	*	
30	10	2	0,206	*	
30	15	1,5	0,189	*	
30	15	2	0,233	*	
30	15	3	0,341	*	
30	20	1,5	0,198	*	
30	20	2	0,260	*	
30	20	3	0,380	*	
35	15	2	0,260	*	
35	20	2	0,286	*	
35	25	2	0,313	*	
40	10	2	0,259	*	
40	15	2	0,287	*	
40	20	2	0,314	*	
40	20	3	0,462	*	
40	20	4	0,604	*	
40	25	2	0,341	*	
40	30	2	0,367	*	
40	30	3	0,543	*	
50	15	2	0,340	*	
50	20	2	0,368	*	
50	25	2	0,395	*	
50	25	4	0,769		*

PROFILILI / T / U

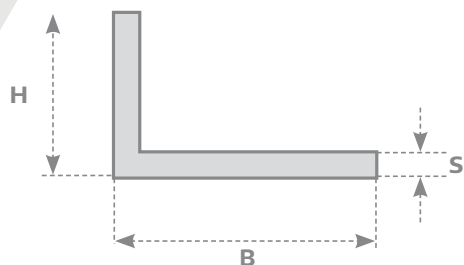
PROFILISPECIALI

PNEUMATICA

PROFILISTRUTTURALI

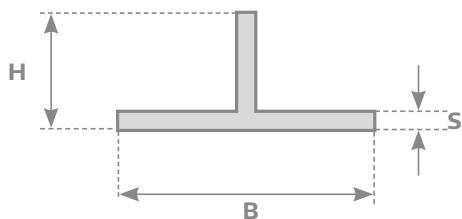
NASTRIE LAMIERE

## ANGOLARI LATI DISUGUALI



B	H	S	kg/ml	Lega 6060	Lega 6082
50	30	2	0,422	*	
50	30	3	0,624	*	
50	30	5	1,013	*	
50	40	2	0,476	*	
60	20	2	0,422	*	
60	30	2	0,476	*	
60	30	3	0,705	*	
60	30	5	1,148	*	
60	40	2	0,530	*	
60	40	3	0,790	*	*
60	40	4	1,037	*	*
60	40	5	1,283	*	*
60	40	6	1,522	*	*
70	15	2	0,449	*	
70	20	2	0,475	*	
70	30	2	0,529	*	
80	15	2	0,502	*	
80	20	1,5	0,400	*	
80	20	2	0,530	*	
80	30	2	0,584	*	
80	30	3	0,866	*	
80	40	2	0,637	*	
80	40	3	0,947	*	
80	40	4	1,250	*	
80	40	6	1,900	*	
80	60	6	2,172	*	
100	20	2	0,638	*	
100	30	2	0,702	*	
100	50	2	0,800	*	
100	50	3	1,190	*	
100	50	5	1,960	*	
100	50	8	3,068	*	
120	20	2	0,746	*	
120	50	2	0,910	*	
120	50	3	1,353	*	
120	60	6	2,820	*	
150	50	5	2,632	*	
150	50	8	4,150	*	

## PROFILI T



B	H	S	kg/ml	Lega 6060	Lega 6082
15	15	1,5	0,116	*	
15	15	2	0,152	*	
20	20	1,5	0,156	*	
20	20	2	0,206	*	
25	15	3	0,300	*	
25	25	2	0,260	*	
30	30	2	0,314	*	
40	15	2	0,287	*	
40	20	2	0,314	*	
40	40	2	0,421	*	
40	40	4	0,842	*	
50	30	5	1,020	*	
50	50	2	0,530		
50	50	3	0,810		
50	50	4	1,037		*
50	50	5	1,282		*
60	60	4	1,253		*
60	60	6	1,847		*
90	50	2	0,746	*	

PROFILI L / T / U

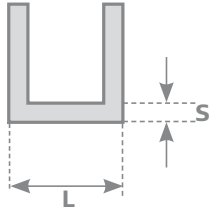
PROFILI SPECIALI

PNEUMATICA

PROFILI STRUTTURALI

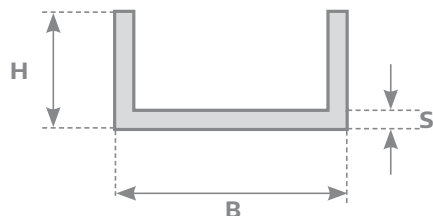
NASTRI E LAMIERE

## PROFILI U LATI UGUALI



L	S	kg/ml	Lega 6060	Lega 6082
6	1	0,044	*	
8	1	0,059	*	
10	1	0,075	*	
12	1	0,092	*	
12	1,5	0,134	*	
15	1,5	0,170	*	
15	2	0,222	*	
20	1,5	0,231	*	
20	2	0,303	*	
25	2	0,384	*	
30	2	0,465	*	
35	2	0,546	*	
40	2	0,630	*	
40	3	0,924	*	
40	4	1,210	*	*
45	2	0,710	*	
50	2	0,790	*	
50	3	1,166	*	
50	5	1,960	*	
60	4	1,858	*	
70	4	2,198	*	

## PROFILI U LATI DISUGUALI



B	H	S	kg/ml	Lega 6060	Lega 6082
10	15	1,5	0,150	*	
15	10	1,5	0,130	*	
20	10	2	0,194	*	
20	15	2	0,249	*	
20	30	2	0,410	*	
25	15	2	0,275	*	
30	10	2	0,249	*	
30	15	2	0,303	*	
30	20	2	0,357	*	
30	50	2	0,680	*	
35	15	2	0,330	*	
35	25	2	0,428	*	
40	10	2	0,303	*	
40	20	2	0,411	*	
40	20	3	0,600	*	
40	30	3	0,762	*	
45	20	2	0,437	*	
45	30	2	0,546	*	
50	15	2	0,411	*	
50	20	2	0,465	*	
50	25	2	0,520	*	
50	25	4	0,994	*	
50	30	2	0,594	*	
50	40	3	1,004	*	
55	40	5	1,690	*	
60	20	2	0,540	*	
60	30	2	0,627	*	
60	30	4	1,209	*	
60	40	2	0,734	*	
60	40	3	1,086	*	

PROFILI L / T / U

PROFILI SPECIALI

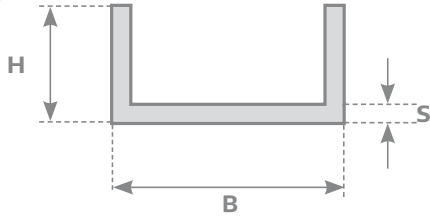
PNEUMATICA

PROFILI STRUTTURALI

NASTRI E LAMIERE



## PROFILI U LATI DISUGUALI



B	H	S	kg/ml	Lega 6060	Lega 6082
60	40	4	1,426	*	
69	50	3	1,320	*	
70	20	2	0,573	*	
70	30	3	1,004	*	
70	40	5	1,900	*	
80	20	2	0,627	*	
80	40	2	0,843	*	
80	40	3	1,247	*	
80	40	4	1,641	*	
80	45	3	1,377	*	
80	50	3	1,409	*	
80	50	5	2,300	*	
88	50	3	1,523	*	
90	50	5	2,430	*	
96	53	3	1,637	*	
100	20	2	0,734	*	
100	25	2	0,788	*	
100	40	3	1,410	*	
100	50	3	1,572	*	
100	50	5	2,565	*	*
100	50	8	3,974		*
108	50	3	1,636	*	
120	60	10	5,940	*	
125	63	6	3,872	*	
138	35	5	2,673	*	
140	70	5	3,645		*
160	80	8	6,641		*





NASTRI E LAMIERE

PROFILI STRUTTURALI

PNEUMATICA

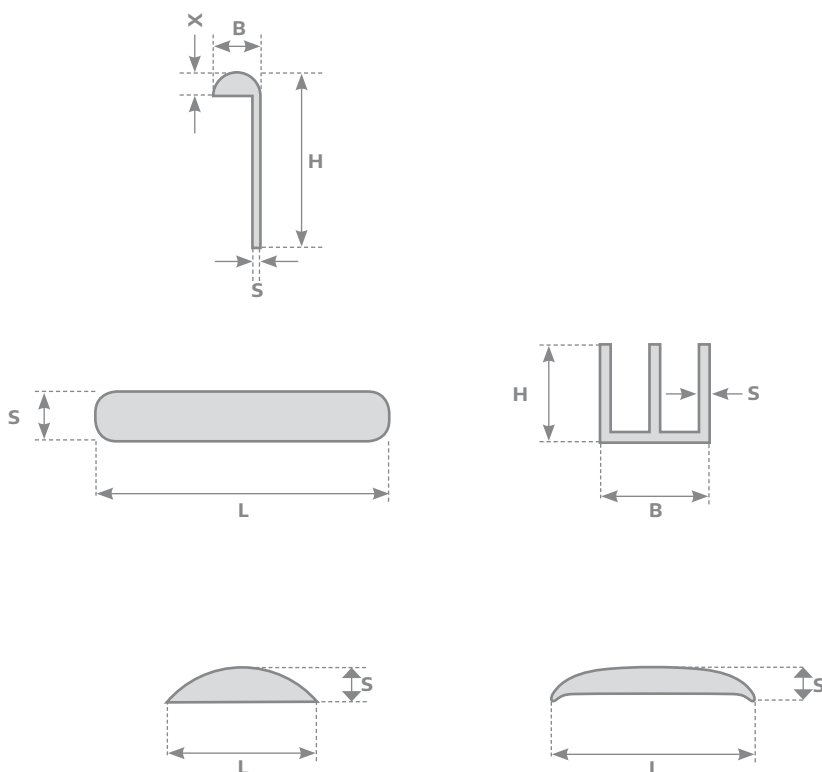
PROFILI SPECIALI

PROFILI L / T / U



### High Technology

Grazie all'impiego di moderne attrezzature offriamo anche servizi e lavorazioni speciali per i nostri prodotti in alluminio

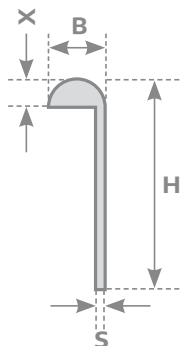


## PROFILI SPECIALI



- //// Unghiette
- //// Barre piatte raccordate tutto raggio
- //// Profili doppia U
- //// Barre semitonde
- //// Profili speciali

## UNGHIETTE



### Lega 6060

Codice	H	B	S	X	kg/ml
<b>VS 4023</b>	13	6	1	3	0,055
<b>VS 3597</b>	20	6,5	2	3	0,093
<b>VS 3596</b>	22	7	1	3	0,085
<b>VS 3593</b>	25	7	1	3	0,120

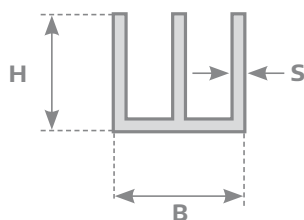
## BARRE PIATTE RACCORDATE TUTTO RAGGIO



### Lega 6060

Codice	L	S	kg/ml
<b>VS 2864</b>	25	5	0,323
<b>VS 4518</b>	30	4	0,314
<b>VS 4489</b>	40	4	0,422

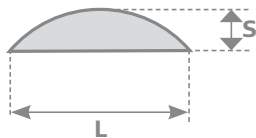
## PROFILI DOPPIA U



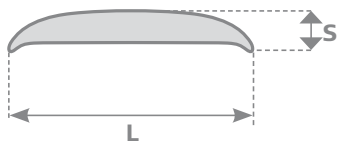
### Lega 6060

Codice	B	H	S	kg/ml
<b>VS 3161</b>	20	11	1,2	0,165
<b>VS 3164</b>	20	18	1,2	0,246

## BARRE SEMITONDE

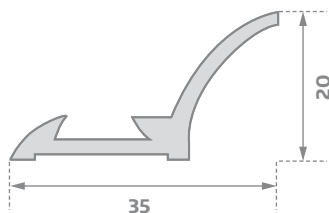


Lega 6060		
L	S	kg/ml
15	3,5	0,100
20	3,5	0,130
20	5	0,220
30	5	0,290

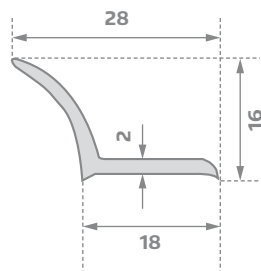


Lega 6060			
Codice	L	S	kg/ml
VS 3251	20	3,5	0,132
VS 3246	25	5	0,232

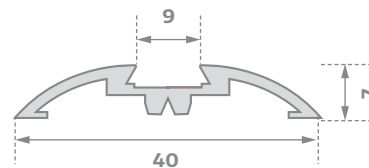
## PROFILI SPECIALI



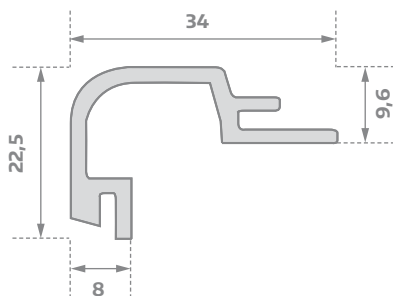
**VS 2983**  
kg/ml 0,310



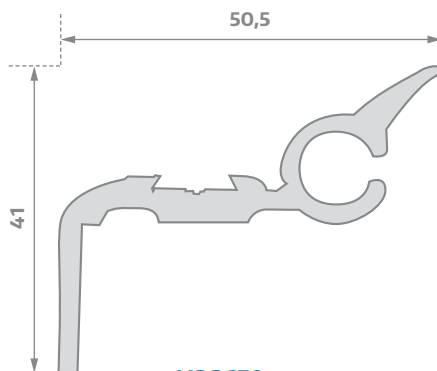
**VS 3285**  
kg/ml 0,185



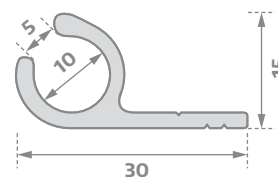
**VS 3273**  
kg/ml 0,310



**VS 2683**  
kg/ml 0,390



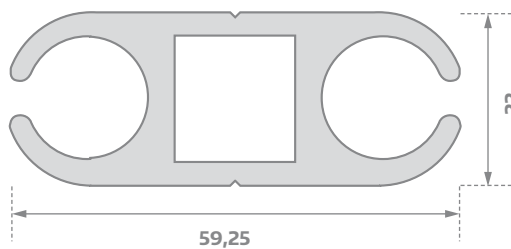
**VS 2670**  
kg/ml 0,675



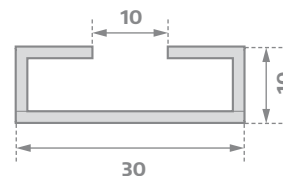
**VS 2569**  
kg/ml 0,300



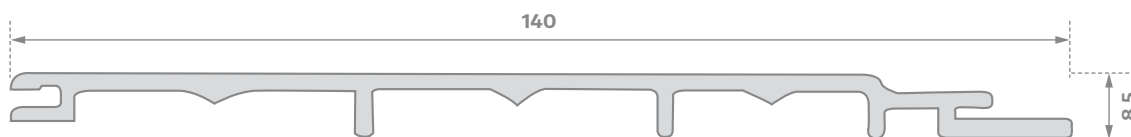
**VS 2654**  
kg/ml 0,371



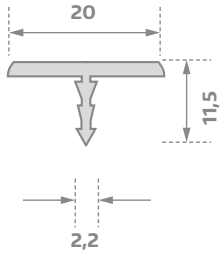
**VS 2768**  
kg/ml 1,447



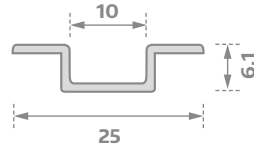
**VS 2926**  
kg/ml 0,260



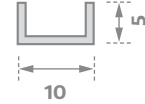
**VS 4584**  
kg/ml 1,185



**VS 3609**  
kg/ml 0,143



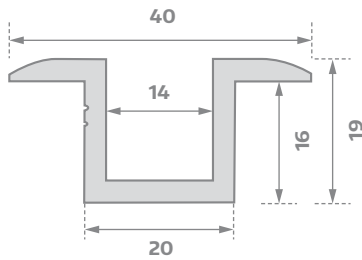
**VS 2655**  
kg/ml 0,102



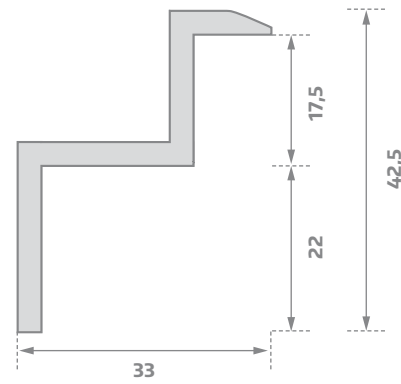
**VS 2678**  
kg/ml 0,054



**VS 4554**  
kg/ml 2,010  
(fuori scala)



**VS 2605**  
kg/ml 0,567



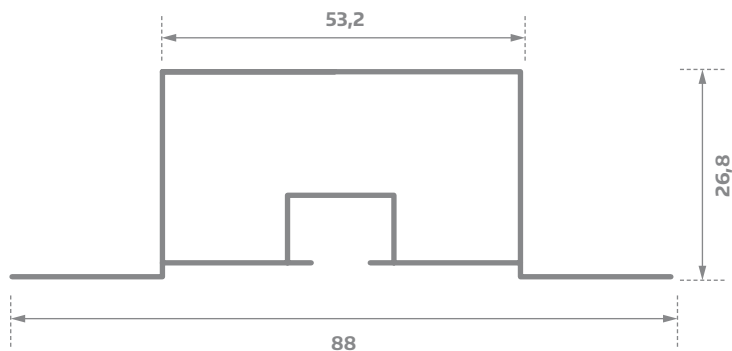
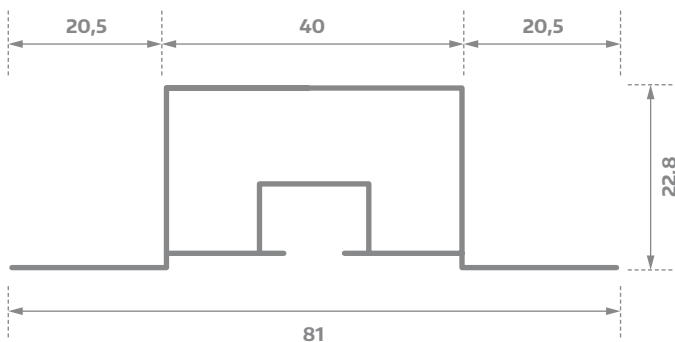
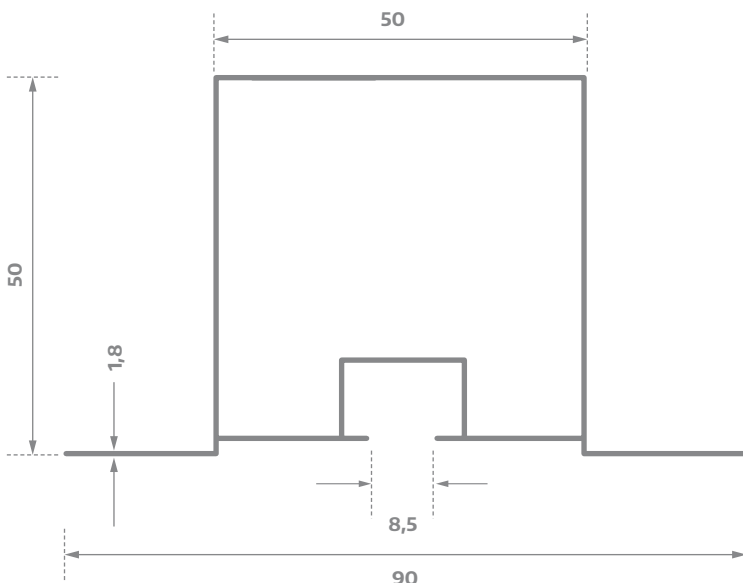
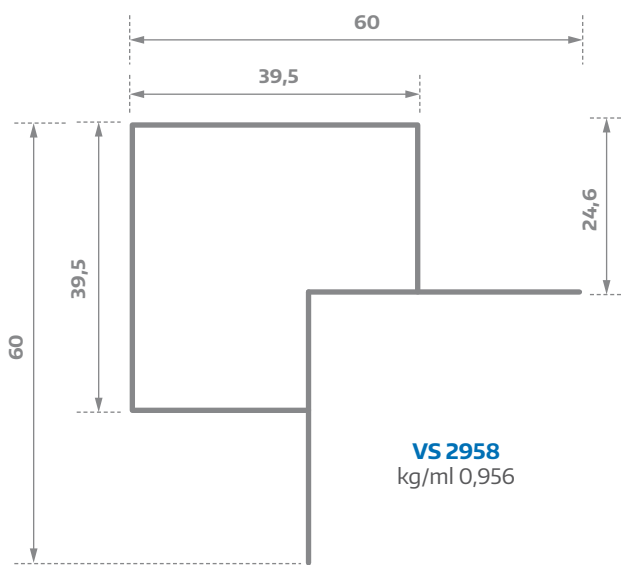
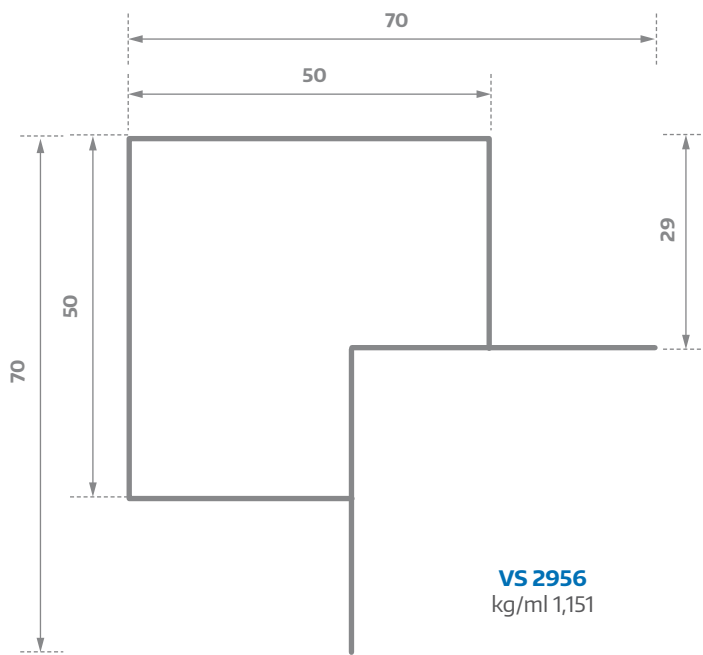
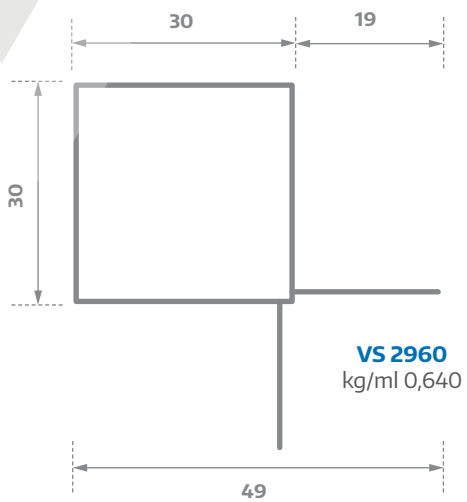
**VS 2606**  
kg/ml 0,575

PROFILI SPECIALI

PNEUMATICA

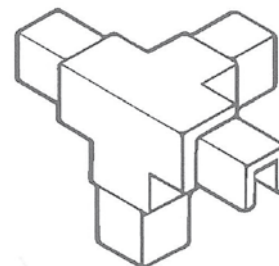
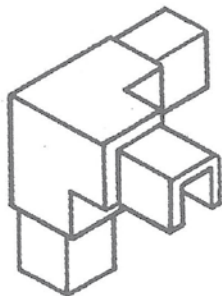
PROFILI STRUTTURALI

NASTRI E LAMIERE

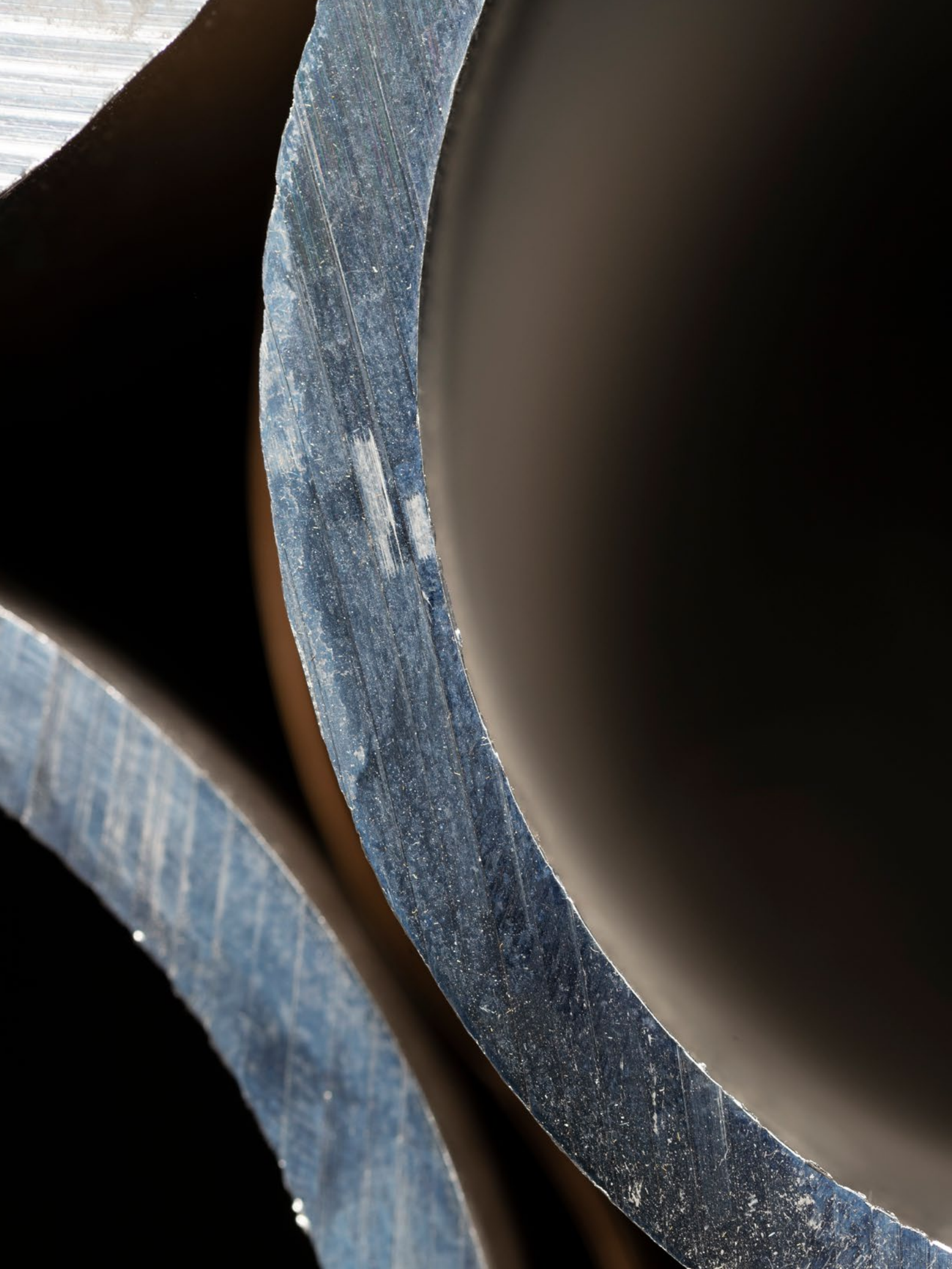




## ANGOLI

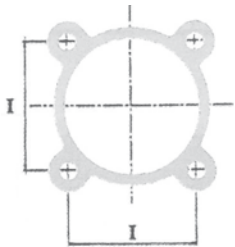


Codice	Profilo	Codice
AC 35 - 30 - 3	VS 2960	AC 35 - 30 - 4
AC 35 - 40 - 3	VS 2958	
AC 35 - 50 - 3	VS 2956	



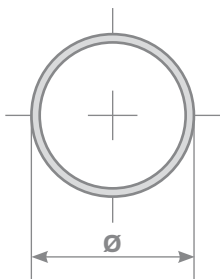
## PROFILI "ISO" CALBRATI

Alesaggi e interassi dei 4 fori per il fissaggio delle testate secondo norme:



Codice	VS	800032	800040	800050	800063	800080	800100	800125
<b>Alesaggi</b>	mm	32	40	50	63	80	100	125
<b>Tolleranza sugli alesaggi</b>		H 11	H 11	H 11	H 11	H 11	H 11	H 12
<b>Interasse fori I</b>	mm	32,5	38	46,5	56,5	72	89	110
<b>Spessore minimo camicia</b>	mm	2,0	2,5	2,5	2,5	3,0	3,0	3,5
<b>Peso</b>	kg/ml	1,370	1,580	2,190	2,600	3,660	4,950	7,100

## TUBI TONDI "ISO" CALBRATI



<b>Alesaggi</b>	mm	25	32	40	50	55	60	63	70	80	100	125
<b>Tolleranza sugli alesaggi</b>		H 11	H 11	H 11	H 11	H 11	H 11	H 11	H 11	H 11	H 12	H 12
<b>Diametro esterno Ø</b>	mm	30	36	45	55	60	65	68	75	86	106	132
<b>Spessore minimo</b>	mm	2,5	2	2,5	2,5	2,5	2,5	2,5	2,5	3	3	3,5
<b>Peso</b>	kg/ml	0,583	0,579	0,902	1,112	1,219	1,325	1,388	1,537	2,114	2,622	3,815

### Anodizzazione:

Spessore ossido classe 20 micron interno ed esterno  
Durezza media dello strato di ossido: 420 HV 25

### Rugosità interna:

Ra	radiale	≤ 0,6 micron
R	max radiale	≤ 9 micron
Ra	assiale	≤ 0,4 micron
Tp 1		≥ 60%

### Lunghezza barre:

mm 3200



# PROFILI STRUTTURALI



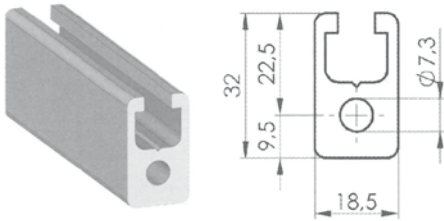
//// Cava 8

//// Cava 6

//// Accessori

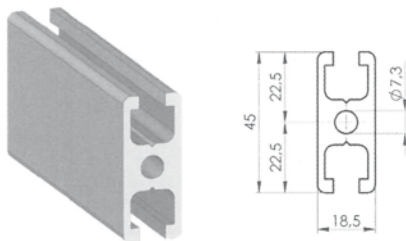
## PROFILI STRUTTURALI CAVA 8

### VS 11001 - Profilo 18,5x32



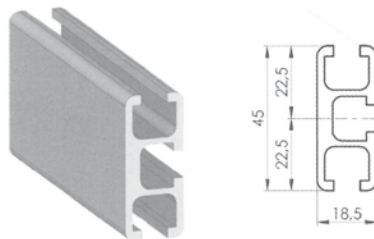
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
2,93	1,39	1,83	1,51	0,988

### VS 11002 - Profilo 18,5X45



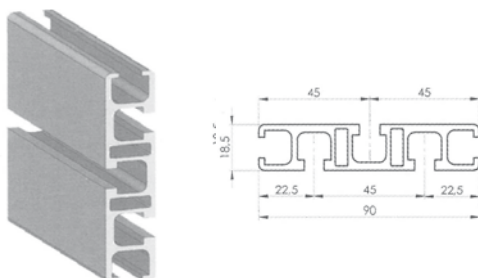
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
5,66	1,83	2,51	1,97	1,153

### VS 11003 - Profilo 18,5x45 3 Cave



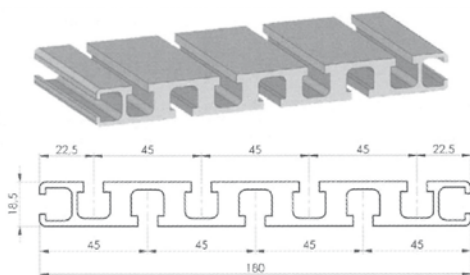
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
5,32	1,54	2,36	1,50	0,864

### VS 11007 - Profilo 18,5X90



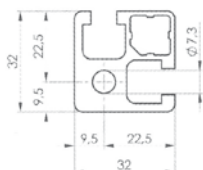
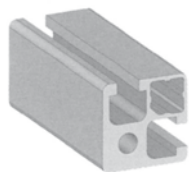
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
2,96	41,24	3,11	9,16	1,687

### VS 11008 - Profilo 18,5X180



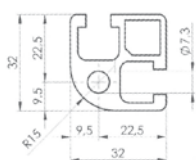
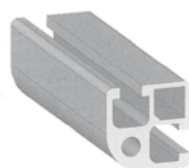
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
6,65	401	7,18	44,50	4,650

## VS 11004 - Profilo 32X32 2 Cave



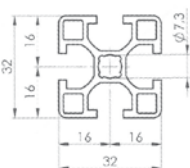
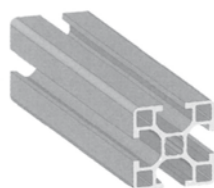
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	1,338
4,70	4,70	2,58	2,58	

## VS 11005 - Profilo 32X32 Tondo



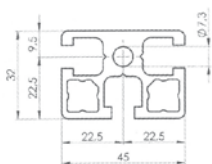
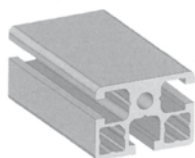
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	1,163
4,10	4,10	2,41	2,41	

## VS 11023 - Profilo 32X32 4 Cave



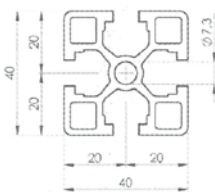
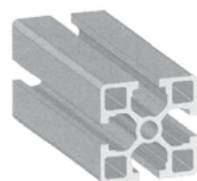
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	0,870
3,23	3,23	2,02	2,02	

## VS 11006 - Profilo 32X45

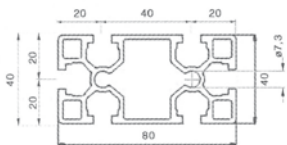
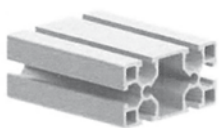


Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	1,597
5,80	8,70	3,55	4,28	

## VS 11040 - Profilo 40X40 4 Cave

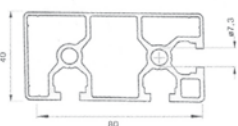
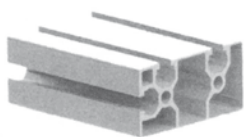


Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
7,95	7,95	3,98	3,98	1,370



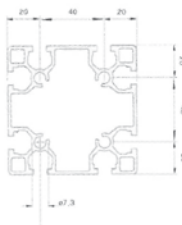
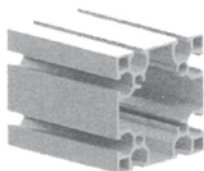
## VS 11041 - Profilo 40X80

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
55,83	15,06	13,96	7,53	2,28



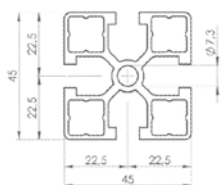
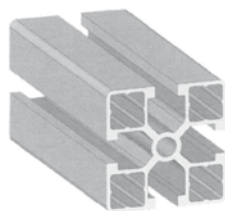
## VS 11043 - Profilo 40X80 Semichiuso

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
49,19	13,52	12,30	6,76	2,07



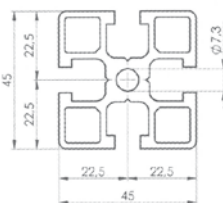
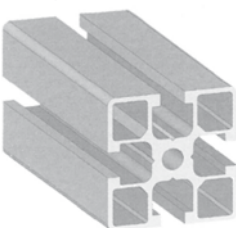
## VS 11042 - Profilo 80X80

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
103,74	103,74	25,94	25,94	3,65



## VS 11019 - Profilo 45X45 Serie leggera

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
11,04	11,04	4,90	4,90	1,531

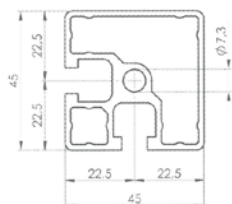
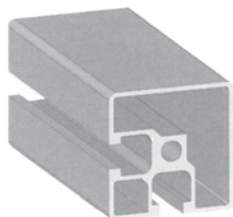


## VS 11011 - Profilo 45X45

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
13,24	13,24	5,88	5,88	1,989

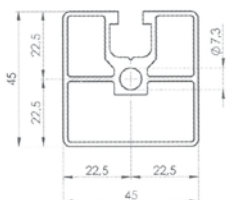
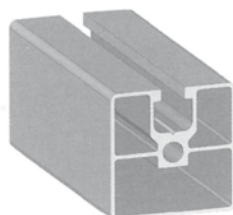


## VS 11018 - Profilo 45X45 Semichiuso



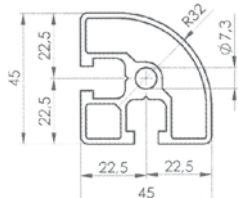
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
11,1	11,1	4,62	4,62	1,480

## VS 11017 - Profilo 45X45 1 Cava



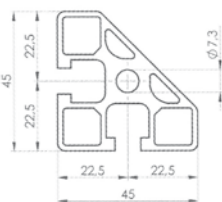
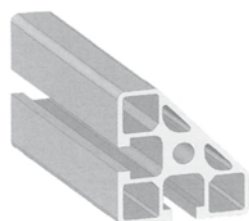
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
8,89	10,05	3,95	4,47	1,302

## VS 11010 - Profilo 45X45 Tondo



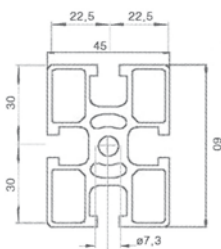
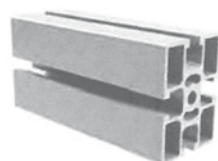
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
9,19	9,19	3,63	3,63	1,397

## VS 11009 - Profilo 45X45 Angolare

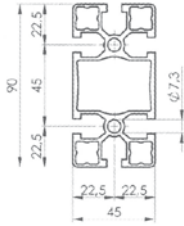
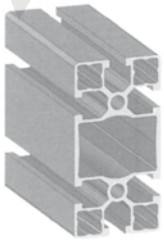


Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
8,20	8,20	4,28	4,28	1,867

## VS 11020 - Profilo 45X60

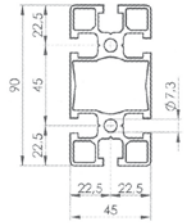
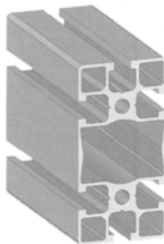


Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
27,24	16,50	9,08	7,13	2,389



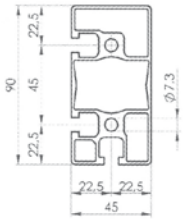
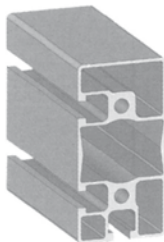
## VS 11021 - Profilo 45X90 Serie leggera

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
80,45	22,92	17,88	10,18	2,850



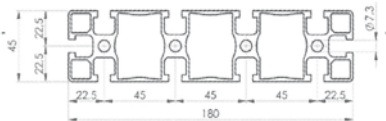
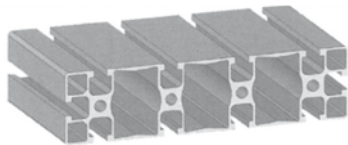
## VS 11013 - Profilo 45X90

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
98,82	25,25	21,96	11,22	3,362



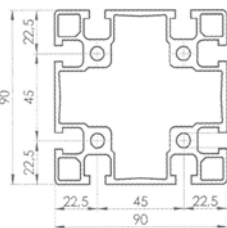
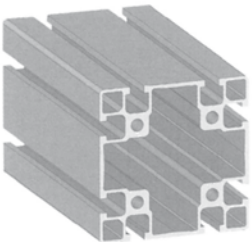
## VS 11014 - Profilo 45X90 Semichiuso

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
75,05	21,41	16,68	9,51	2,690



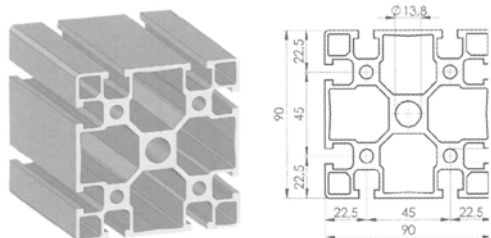
## VS 11015 - Profilo 45X180

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
48,33	689,89	21,48	76,65	5,958



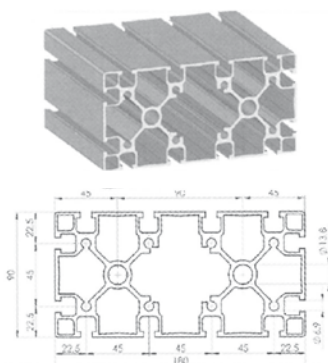
## VS 11022 - Profilo 90X90 Serie leggera

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$	
162,00	162,00	36,05	36,05	5,075



## VS 11016 - Profilo 90X90

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
175,00	175,00	38,90	38,90	6,014

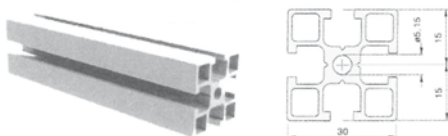


## VS 11012 - Profilo 90X180

Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
294,80	1102,00	65,51	122,45	10,050

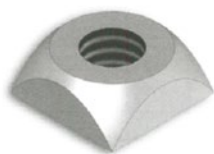
## PROFILI STRUTTURALI CAVA 6

### VS 11030 - Profilo 30X30



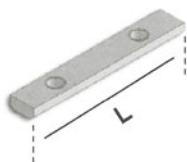
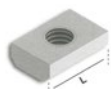
Momento d'inerzia		Modulo di resistenza		Peso kg/m
$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$w_x \text{ cm}^3$	$w_y \text{ cm}^3$	
2,39	2,39	1,59	1,59	0,78

## DADI



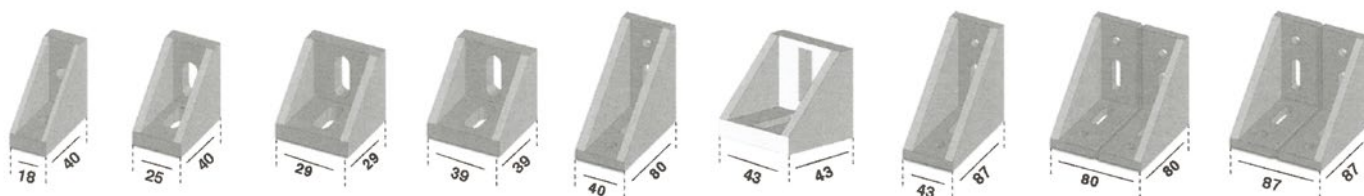
Dado quadro	Molla	Martello	Filetto
AC1-4	AC1-4 M	AC1-4 MT	M 4
AC1-5	AC1-5 M	AC1-5 MT	M 5
AC1-6	AC1-6 M	AC1-6 MT	M 6
AC1-8	AC1-8 M		M 8
AC1-8 INOX			M 8
AC1-6-5 CAVA 6			M 5
AC1-6-6 CAVA 6			M 6

## DADI RETTANGOLARI M8



Codice	L	Codice	L	Codice	L
AC1-13-20	20 mm	AC1-13-81	81 mm	AC1-13-180	180 mm
AC1-13-25	25 mm				
AC1-13-40	40 mm				

## SQUADRETTA PRESSOFUSA



AC 3 - 18 - 40

AC 3 - 25 - 40

AC 3 - 29 - 29

AC 3 - 39 - 39

AC 3 - 40 - 80

AC 3 - 43 - 43

AC 3 - 43 - 87

AC 3 - 80 - 80

AC 3 - 87 - 87

## SQUADRETTA INOX



AC 3 - 30 - 30 INOX

30X30

## GIUNTO LINEARE



AC 4 - 90

AC 4 - 90 A (Alluminio)

AC 4 - 180

AC 4 - 180 A (Alluminio)

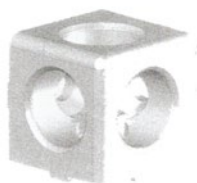
## GIUNTO SNODATO



AC 7 - V

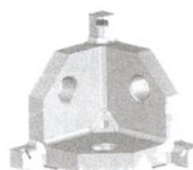
Serraggio a vite

## GIUNTI



**AC 5 - 4**

Giunto quadro a 3 vie - completo di tappi in plastica per profilo 40x40



**AC 7 - C**

Corpo giunto a 3 vie per profilo 45x45

**AC 7 - 30 - C**

Corpo giunto a 3 vie per profilo 30x30



**AC 7 - Q**

Tappo quadro nero per giunto AC 7 - C

**AC 7 - 30 - Q**

Tappo quadro nero per giunto AC 7 - 30 - C

**AC 7 - Q G**

Tappo quadro grigio per giunto AC 7 - C

**AC 7 - 30 - Q G**

Tappo quadro grigio per giunto AC 7 - 30 - C



**AC 7 - T**

Tappo tondo nero per giunto AC 7 - C

**AC 7 - 30 T**

Tappo tondo nero per giunto AC 7 - 30 - C

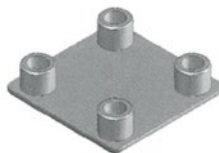
**AC 7 - T G**

Tappo tondo grigio per giunto AC 7 - C

**AC 7 - 30 - T G**

Tappo tondo grigio per giunto AC 7 - 30 - C

## TAPPI



Codice	Profilo
AC 12 - 18 - 32	VS 11001
AC 12 - 18 - 45	VS 11002
AC 12 - 18 - 45 - 3	VS 11003
AC 12 - 18 - 90	VS 11007
AC 12 - 18 - 180	VS 11008
AC 12 - 30 - 30	VS 11030
AC 12 - 32 - 32	VS 11004
AC 12 - 32 - T	VS 11005
AC 12 - 32 - 32 - 4	VS 11023
AC 12 - 32 - 45	VS 11006
AC 12 - 40 - 40	VS 11040
AC 12 - 40 - 80	VS 11041 - 11043
AC 12 - 45 - 45	VS 11011 - 11017 - 11018 - 11019
AC 12 - 45 - 45 - A	VS 11009
AC 12 - 45 - 45 - T	VS 11010
AC 12 - 45 - 60	VS 11020
AC 12 - 45 - 90	VS 11013 - 11014 - 11021
AC 12 - 45 - 180	VS 11015
AC 12 - 80 - 80	VS 11042
AC 12 - 90 - 90	VS 11016 - 11022
AC 12 - 90 - 180	VS 11012





## NASTRI E LAMIERE



- //// Nastri
- //// Lamiere lisce
- //// Lamiere preanodizzate
- //// Lamiere preverniciate
- //// Lamiere mandorlate
- //// Lamiere goffrate
- //// Piastre

## NASTRI LISCI

Altezza	Sp. mm	kg/ml	Lega					
			1050	3105	5754	Goffrato stucco	Preverniciati	Preossidati argento
1000	0,5	1,400	*					
	0,6	1,620	*	*				
	0,8	2,160	*		*			*
	1	2,700	*	*	*			*
	1,2	3,240	*		*			
	1,5	4,050	*	*	*			*
	2	5,400	*	*	*			*
	2,5	6,750	*		*			
	3	8,100	*		*			*
	4	10,800	*		*			
1250	0,4	1,350				*		
	0,5	1,630					SILVER / 9010	
	0,8	2,700	*	*	*	*	9010	*
	1	3,375	*	*	*	*	SILVER	*
	1,2	4,050	*		*		SILVER	*
	1,5	5,065	*	*	*			*
	2	6,750	*	*	*			*
	2,5	8,438	*		*			
	3	10,125	*		*			
	4	13,500	*		*			
1500	0,8	3,240		*				
	1	4,05	*		*			*
	1,2	4,860	*		*		9010	*
	1,5	6,075	*	*	*			*
	1,9	7,700		*				
	2	8,100	*	*	*			*
	2,5	10,125	*		*			
	3	12,150	*		*			*
4	16,200	*		*				

## LAMIERE LISCE

Dimensione	Sp. mm	kg/foglio	Lega							
			1050	3105	5005	5754	5083	6082	7075	
1000 x 2000	0,4	2,160	*							
	0,5	2,700	*							
	0,6	3,240	*	*						
	0,8	4,320	*			*				
	1	5,400	*		*	*		*		
	1,2	6,500	*			*				
	1,5	8,100	*	*	*	*		*	*	
	2	10,800	*		*	*		*	*	
	2,5	13,500	*		*	*		*		
	3	16,200	*		*	*		*	*	
	4	21,600	*		*	*	*	*	*	*
	5	27,000	*				*	*	*	*
6	32,400	*				*		*	*	
1250 x 2500	0,8	6,750	*	*		*				
	1	8,440	*	*		*				
	1,2	10,130	*			*				
	1,5	12,660	*	*	*	*		*		
	2	16,880	*	*		*		*		
	2,5	21,100	*	*		*				
	3	25,315	*			*				
	4	33,750	*		*	*		*		
5	42,190	*			*		*			
6	50,630	*			*					
1250 x 3000	0,8	8,100		*						
	1	10,125	*			*				
	1,2	12,150	*			*				
	1,5	15,190	*			*				
	2	20,250	*			*				
	2,5	25,400	*			*				
3	30,380	*			*					
1250 x 4000	1	13,500	*							
	1,2	16,200	*	*						
	1,5	20,850	*			*				
	2	27,000	*			*				
1500 x 3000	0,8	9,720		*						
	1	12,150	*			*				
	1,2	14,580	*			*				
	1,5	18,230	*	*		*		*		
	1,9	23,100		*						
	2	24,300	*			*		*		
2,5	30,380	*			*					

## LAMIERE LISCE

Dimensione	Sp. mm	kg/foglio	Lega						
			1050	3105	5005	5754	5083	6082	7075
1500 x 3000	3	36,450	*		*	*		*	
	4	48,600	*	*		*		*	
	5	60,750	*			*		*	
	6	72,900	*			*	*	*	
1500 x 3500	1	14,180	*			*			
	1,2	17,020	*			*			
	1,5	21,260	*			*			
	2	28,350	*			*			
	2,5	35,440	*			*			
	3	42,525	*			*			
	4	56,700	*			*			
	5	70,880	*			*			
1500 x 4000	1	16,200	*						
	1,2	19,440	*						
	1,5	24,300	*	*		*			
	2	32,400	*			*			
	2,5	40,500				*			
	3	48,600	*			*			
	4	64,800	*			*			
1500 x 5000	1,5	30,400	*						
	2	40,500	*						
	3	60,750	*						
2000 x 3000	2	32,400	*			*			
	3	48,600	*			*			
2000 x 4000	1,5	33,000	*						
	2	43,200	*			*			
	3	64,800	*			*			
2000 x 6000	2	64,800	*						
	3	97,200					*		
	4	129,600					*		
	5	162,000					*		
	6	194,400					*		
	7	227,000					*		
	8	260,000					*		
	10	324,000					*		
	12	388,800					*		
	15	487,000					*		
	20	649,000					*		
	25	810,000					*		
	30	972,000					*		
40	1296,000					*			

## LAMIERE PREANODIZZATE ARGENTO

Dimensione	Sp. mm	kg/foglio
<b>1000 x 2000</b>	0,8	4,320
	1	5,400
	1,5	8,100
	2	10,800
	2,5	13,500
	3	16,200
<b>1250 x 2500</b>	0,8	6,750
	1	8,440
	1,2	10,130
	1,5	12,660
	2	16,880
	3	25,315
<b>1500 x 3000</b>	1	12,150
	1,2	14,580
	1,5	18,230
	2	24,300
<b>1500 x 4000</b>	3	36,450
	1	16,200
	1,2	19,440
	1,5	24,300
	2	32,400
<b>1500 x 5000</b>	3	46,600
	2	40,500

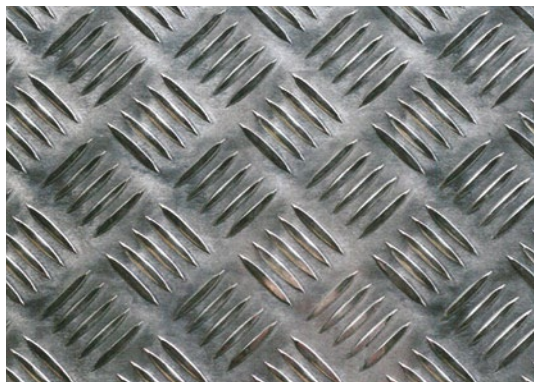
## LAMIERE PREVERNICIATE

Dimensione	Sp. mm	kg/foglio	Colore
<b>1000 x 2000</b>	0,5	2,900	SILVER - 9010
	0,8	4,480	SILVER
	1,0	5,500	SILVER - RAL 9005 - 9010
<b>1250 x 2000</b>	0,5	3,775	SILVER
	0,8	5,600	RAL 9010
	1,0	6,750	SILVER - RAL 9010
<b>1250 x 2500</b>	0,8	6,750	RAL 9010
	1,2	11,150	RAL 9011
<b>1250 x 4000</b>	1,2	18,000	SILVER RAL 3003 - 5010 6005 - 8017 - 9002 MAREZZATO MARRONE MAREZZATO VERDE
<b>1500 x 3000</b>	1,2	16,200	SILVER - RAL 8017 9005 - 9010
	1,5	18,900	SILVER - RAL 9010
	2	27,000	RAL 9006 - 9010
	0,8	13,850	RAL 7035
<b>1500 x 4000</b>	1,2	21,600	SILVER RAL 9007 - 6005 9006 - 9010
	1,5	24,300	RAL 9010 - 9005
	2	36,000	RAL 9006 - 9010





## LAMIERE MANDORLATE CINQUE MANDORLE



Dimensione	Sp. mm	kg/foglio	Lega	
			1200	5754
1000 x 2000	2	12,800	*	*
	2,5	15,400	*	*
	3	18,200	*	*
	5	28,900		*
1000 x 3000	2	19,200	*	
	3	27,200	*	
1250 x 2500	2	19,900	*	*
	2,5	24,100	*	*
	3	28,250	*	*
	5	45,150		*
1250 x 3000	2	23,850	*	
	2,5	28,850	*	
	3	34,000	*	
1500 x 3000	2	28,550	*	*
	2,5	34,650	*	*
	3	40,700	*	*
	5	65,000		*
1500 x 6000	3	82,000	*	*
2000 x 4000	2	51,200	*	
	3	72,800	*	*
	5	116,000		*
2000 x 6000	3	110,000	*	



## LAMIERE MANDORLATE GRANA ORZO LEGA 5754



Dimensione	Sp. mm	kg/foglio
1250 x 2500	1,5	14,550
	2	18,800
	2,5	23,300

## LAMIERE GOFFRATE STUCCO LEGA 3105



Dimensione	Sp. mm	kg/foglio
1250 x 2500	0,4	3,450
	0,8	6,900
1250 x 3000	0,8	8,100

## PIASTRE FRESATE CON PVC LEGA 5083

Dimensione	Sp. mm	kg/foglio
2020 x 4020	8	175,500
	10	220,000
	12	267,000
	15	341,000
	20	448,000
	25	548,000
	30	672,000
	40	909,000

## PIASTRE

Dimensione	Sp. mm	kg/foglio	Lega			
			5083	6082	7075	2017
1020 x 2020	8	44,500	*	*		
	10	55,630	*	*		
	12	66,750	*	*		
	15	83,430	*	*		
	20	111,260	*	*		
	25	139,800	*	*		
	30	166,890	*	*		
	35	194,700	*	*		
1270 x 2520	60	346,000			*	
	8	69,130	*	*		
	10	86,410	*	*		
	12	103,690	*	*		
	20	172,820	*	*		
	35	313,600		*		
1520 x 3020	60	518,500			*	
	8	99,150	*	*	*	
	10	123,940	*	*	*	
	12	148,730	*	*	*	
	15	185,900	*	*	*	
	20	247,880	*	*	*	
	25	309,850	*	*	*	
	30	371,820	*	*	*	
	35	433,790	*	*	*	
	40	495,760	*	*	*	
	45	557,730	*	*	*	
	50	619,700	*	*	*	*
	60	743,640	*	*	*	
	65	831,000			*	
	70	867,580	*	*	*	
	80	991,630	*	*	*	
	90	1115,470	*	*	*	
	100	1239,410	*	*	*	
	120	1487,000	*	*		
	1520 x 4020	150	1860,000	*	*	
15		247,500	*	*		
20		330,000	*	*		
2020 x 4020	20	448,000	*			
	30	672,000	*			
	35	768,000	*			
	40	910,000		*		
	45	990,000			*	
	50	1136,000		*		













- //// Lamiere e nastri
- //// Profili commerciali e su disegno
- //// Leghe per tornitura
- //// Piastre da costruzione