





About us

Vinitech Metal Private Limited, established in 2019 Company mainly engaged into manufacturing of Aluminum Extrusion Products like Profiles, Sections, Solids etc, having a huge market with varied industrial as well as architectural uses.

The company has set-up an Exclusive plant with Local and imported machinery & best available technology at Village: Vadavswami, Taluka: Kalol, Dist.
Gandhinagar. The plant is equipped with highly technical machinery and testing equipment's like Tensile Testing Machine, Hardness Tester H R B, Hardness Tester H R C, Spectrometer, Conductivity miter with Display, hardness tester etc,

Aluminum extrusions have many excellent properties such as low weight, good electrical & thermal conductivity, strength corrosion resistance, formability, machinability, design possibilities etc., and above all, can be recycled, therefore offering high value in numerous applications.

Product Range

Standard Section

Flat bar, hexagonal bar, round bar, square bar- we have more than 100 Size

Hollow tubes from 12.7 mm to 101 mm. we have more than 100 size

Equal & unequal angels.
We have more than 200 size

We also develop section to your requirements and size.

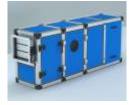
Product Applications















- Architectural & Hardware
- · Air handling units, grills & diffusers
- Automotive & road transport
- Advertising
- Cryogenic
- Drawn products
- Elevators
- Heat sinks
- Luggage
- Modular racks
- Modular offices
- Pneumatic pumps & actuators
- · Solar collector & frames
- · Textile machines, reeds & head frames

Production Process



Quality Control

The company adheres to stringent quality norms for all the processes. The materials used by Vinitech Metal are of very high quality and compatible to the latest machinery and production process.

The company's technical and commercial quality guidelines are set to high standards. A team supervises the quality assurance and control aspects along with the entire process system by identifying and associating with the quality circle. Quality control Tests are conducted regularly to maintain a uniform product quality.

Measuring Instrument

SR No.	Instrument Name	Make	Range	Utility
1	Universal Testing Machines	Fine Spavy Associates & Engineers Pvt. Ltd.	0-400 KN	To Test the Tensile strength
2	Hardness Tester H R B	Fine Spavy Associates	22-1411 BHM	To Test the Brinell Hardness
3	Hardness Tester H R C	Metatest Instruments Pvt.Ltd.	0-100 HRC	To Test the Rockwell Hardness
4	Spectromiter	VAS Spectromiter		To Test the Chemical analysis of aluminium & it's Alloy"
5	Webster	1, USA Make 2, India Make	0 - 20	To Test the Hardness of thin profiles.
6	Conductivity miter with Display	Technofour	10% TO 102% I.A.C.S	To Test Electrical Conductivity
7	Micro Miter	Insize	0 TO 25 MICRON	To Test Coating thickness of powder Coating and Anodizing Profile
8	Vernier Miter	Insize	0 TO 150 MM 0 TO 300 MM 0 TO 600 MM	To Test OD & ID of Profile

Alloys Specication

Mechanical Properites

Alloy Designation		Chemical composition					Temper Condition		Ultimate Tensile Strength	% Elongatio n on 50		
Old	Indian	U.S.	Silicon (si)	Magnesi um (mg)	Copper (cu)	Magnane se (Mn)	iron (Fe)	Aluminum (Al)	Old	New	kgf/mm2 (min.)	mm Guage (min.)
EIC	19000	1100	0.0-0.40	0.0-0.0	0.0-0.0	0.0-0.0	0.0-0.30	99.00%	М	F	6.7	16
EIB	19500	1050	0.0-0.25	0.0-0.0	0.0-0.0	0.0-0.0	0.0-0.25	99.40%	М	F	6.6	16
EIB	19600	1060	0.0-0.30	0.0-0.0	0.0-0.0	0.0-0.0	0.0-0.35	99.60%	М	F	6.5	20
EIB	19700	1070	0.0-0.20	0.0-0.0	0.0-0.0	0.0-0.0	0.0-0.20	99.70%	М	F	6.4	24
HE-15	24345	2014	0.5-1.20	0.20-0.80	3.80-5.00	0.30-1.20	0.0-0.60	Remainder	WP	8	32.5	8.5
-	52000	5052	0.0-0.60	1.7-2.60	0.0-0.10	0.0-0.50	0.00-0.60	Remainder	WP	10	38.5	7
HE-20	65032	6061	0.40-0.80	0.80-1.20	0.15-0.20	0.00-0.15	0.0-0.70	Remainder	W	T4	18.5	14.5
									WP	T6	29.5	7.5
HE-9	63400	6063	0.30-0.70	0.40-0.90	0.0-0.10	0.00-0.30	0.0-0.50	Remainder	W	T4	14	14
									Р	T5	16	6.5
									WP	T6	19	6.5
HE-91E	63401	6101	0.30-0.50	0.40-0.70	0.0-0.0	0.00-0.00	0.0-0.40	Remainder	W	T4	14.5	12
									WP	T6	20.5	10
-	64430	6351	0.60-1.30	0.40-1.20	0.0-0.10	0.40-1.00	0.0-0.40	Remainder	WP	T4	19.5	14.5
									WP	T6	33.5	7.5

Physical Properties Of Aluminium

1	Specific Gravity	-2.70		
2	Modulus of Elastivity	-7x10 ⁵ kg/cm ²		
3	Electrical Conductivity	-53 to 62% LACS		
4	Thermal Conductivity (at 200 c)	-0.53 cal/sq.cm/sec./cm/ ^{ac}		
5	Co-efficient of linear expansion	-22x106mm/mm/ ^{oc}		
6	Electrical Resistivity (at 200c)	-2.850 micron-om (for EC-0)		

Value Addition

Anodizing

Anodizing is the electrochemical process provides additional protection aside from the natural oxide film. A durable, porous anodic oxide layer is formed on the surface of the aluminum. Anodized aluminum will also accept vibrant colors. We can anodize any kind of aluminum product. This Coating is desirable due to following properties:

- Increased corrosion resistance
- Increased durability / wear resistancce
- Ability to be colored through dying
- Electrical insulation
- · Excellent base or primer for secondary coating

We are the best to provide the best quality product

Glossy / melt finish

Up to 25 Microns thickness

Up to 6 miter length

Colour:

Satin, Silver, Champion, Golden, Bronze, Black

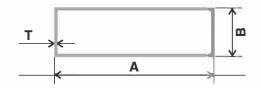
Packing

Vinitech Metal has always believed that customers should be given prime importance and all products should meet their requirements. This ideology is also practiced in the packaging process of the finished product. All products are packaged as per customer's requirements and only then dispatched.

So keep sections and their surfaces safe during transportation, we can provide interleaving with paper, polythene, stretch film, bubble sheet and cardboard as required. Wooden box and pallets can also be used when transport distances and sections sensitivity demand. Bundles are also made to facilitate manual loading/unloading.



Rectangle Tubes



SR No.	Section No.	A	В	т	Wt. Range Wt / 12'
1	0800	36.00	24.00	0.90	0.900-1.100
2	0801	36.00	24.00	1.20	1.350-1.500
3	0802	36.00	24.00	1.75	1.900-2.150
4	0803	36.00	24.00	2.00	2.150-2.450
5	0804	38.00	25.00	0.90	1.050-1.250
6	0805	38.00	25.00	1.25	1.450-1.600
7	0806	48.00	24.00	0.95	1.250-1.400
8	0807	48.00	24.00	1.10	1.550-1.650
9	0808	48.00	24.00	1.25	1.750-1.900
10	0809	48.00	24.00	1.50	2.850-3.100
11	0810	50.00	25.00	0.90	1.250-1.400
12	0811	50.00	25.00	1.25	1.750-1.950
13	0812	50.00	25.00	2.00	2.850-3.100
14	0813	50.00	25.00	3.00	4.100-4.350
15	0814	50.00	12.00	1.45	1.700-1.850
16	0815	50.00	38.00	1.25	2.100-2.350
17	0816	50.00	38.00	1.45	2.550-2.750
18	0817	62.00	24.00	1.10	1.750-1.900
19	0818	62.00	24.00	1.45	2.350-2.550
20	0819	63.00	38.00	0.80	1.650-1.850
21	0820	63.00	38.00	1.00	1.950-2.150
22	0821	63.00	38.00	1.20	2.350-2.550
23	0822	63.00	38.00	1.50	2.900-3.150
24	0823	63.00	38.00	2.00	3.850-4.100
25	0824	63.00	38.00	3.00	5.600-5.850
26	0825	75.00	12.00	1.45	2.400-2.650
27	0826	75.00	19.00	1.45	2.600-2.850
28	0827	75.00	25.00	1.00	1.900-2.150
29	0828	75.00	25.00	1.20	2.300-2.550
30	0829	75.00	25.00	1.50	3.700-3.950
31	0830	75.00	25.00	2.00	5.500-5.850
32	0831	83.00	38.00	1.00	2.300-2.550
33	0832	83.00	38.00	1.20	2.700-2.950
34	0833	83.00	38.00	1.50	3.400-3.650
35	0834	83.00	38.00	2.00	4.550-4.850
36	0835	94.00	24.00	0.90	2.200-2.450
37	0836	94.00	24.00	1.25	2.850-3.150

SR	Section	Α	В	т	Wt. Range
No.	No.	^			Wt / 12'
38	0837	100	12.00	1.45	3.100-3.350
39	0838	100	19.00	1.45	3.300-3.450
40	0839	100	25.00	1.00	2.450-2.650
41	0840	100	25.00	1.25	3.050-3.300
42	0841	100	25.00	1.50	3.550-3.850
43	0842	100	25.00	2.00	4.850-5.150
44	0843	100	25.00	3.00	7.200-7.550
45	0844	100	38.00	1.25	3.350-3650
46	0845	100	38.00	1.45	3.850-4.150
47	0846	100	38.00	2.00	5.200-5.550
48	0847	100	38.00	3.00	7.850-8.150
49	0848	100	50.00	1.25	3.650-3.850
50	0849	100	50.00	1.45	4.200-4.450
51	0850	100	50.00	2.00	5.750-5.950
52	0851	100	50.00	3.00	8.550-8.850



PLANT ADDRESS:

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