



**Expect Great Things**





# 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

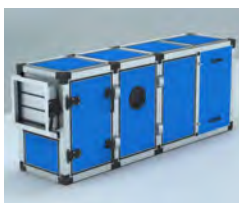
Flat bar,  
hexagonal bar,  
round bar,  
square bar- we  
have more than  
100 Size

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 Vitech 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 Specification

## Mechanical Properties

Alloy Designation			Chemical composition						Temper Condition		Ultimate Tensile Strength kgf/mm <sup>2</sup> (min.)	% Elongation on 50 mm Gauge (min.)
Old	Indian	U.S.	Silicon (si)	Magnesium (mg)	Copper (cu)	Magnesium (Mn)	Iron (Fe)	Aluminum (Al)	Old	New		
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%	M	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%	M	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%	M	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%	M	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
									P	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 Elasticity	-7x10 <sup>5</sup> kg/cm <sup>2</sup>
3	Electrical Conductivity	-53 to 62% IACS
4	Thermal Conductivity (at 200 c)	-0.53 cal/sq.cm/sec./cm <sup>°c</sup>
5	Co-efficient of linear expansion	-22x10 <sup>6</sup> mm/mm/ <sup>°c</sup>
6	Electrical Resistivity (at 200c)	-2.850 micron-ohm (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 resistance
- Ability to be colored through dyeing
- Electrical insulation
- Excellent base or primer for secondary coating

We are the best to provide the best quality product

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Glossy / melt finish

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Up to 25 Microns thickness

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Up to 6 meter length

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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.

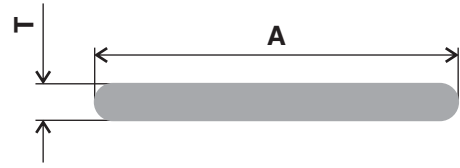
So keep sections and their surfaces safe during transportation, we can provide interleaving with paper, polythene, stretch film, bubble sheet and cardboard as required. Wooden box and pallets can also be used when transport distances and sections sensitivity demand. Bundles are also made to facilitate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







# Radius Flat Bar



SR No.	Section No.	A	T	Wt. Range Wt / 12'
1	0100	25	6	1.350-1.550
2	0101	25	10	2.200-2.400
3	0102	25	12	2.600-2.800
4	0103	30	6	1.650-1.850
5	0104	30	10	2.700-2.900
6	0105	30	12	3.200-3.400
7	0106	40	6	2.250-2.450
8	0107	40	10	3.650-3.850
9	0108	40	12	4.350-4.550
10	0109	50	6	2.850-3.050
11	0110	50	10	4.650-4.850
12	0111	50	12	5.550-5.750
13	0112	60	6	3.450-3.650
14	0113	60	10	5.650-5.850
15	0114	60	12	6.750-6.950
16	0115	70	6	4.000-4.200

SR No.	Section No.	A	T	Wt. Range Wt / 12'
17	0116	70	10	6.650-6.850
18	0117	70	12	7.900-8.100
19	0118	80	6	4.600-4.800
20	0119	80	10	7.600-7.800
21	0120	80	12	9.100-9.300
22	0121	100	5	5.800-6.000
23	0122	100	10	9.950-10.200
24	0123	100	12	11.450-11.650
25	0124	125	6	7.250-7.450
26	0125	125	10	12.050-12.200
27	0126	125	12	14.350-14.550
28	0127	150	6	8.750-8.950
29	0128	150	10	14.450-14.650
30	0129	150	12	17.350-17.550
31	0130	160	10	15.450-15.650



**PLANT ADDRESS:**

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Ahmedabad-Mehsana Highway,  
Village-Vadavswami, Ta-Kalol, Dist-Gandhinagar,  
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