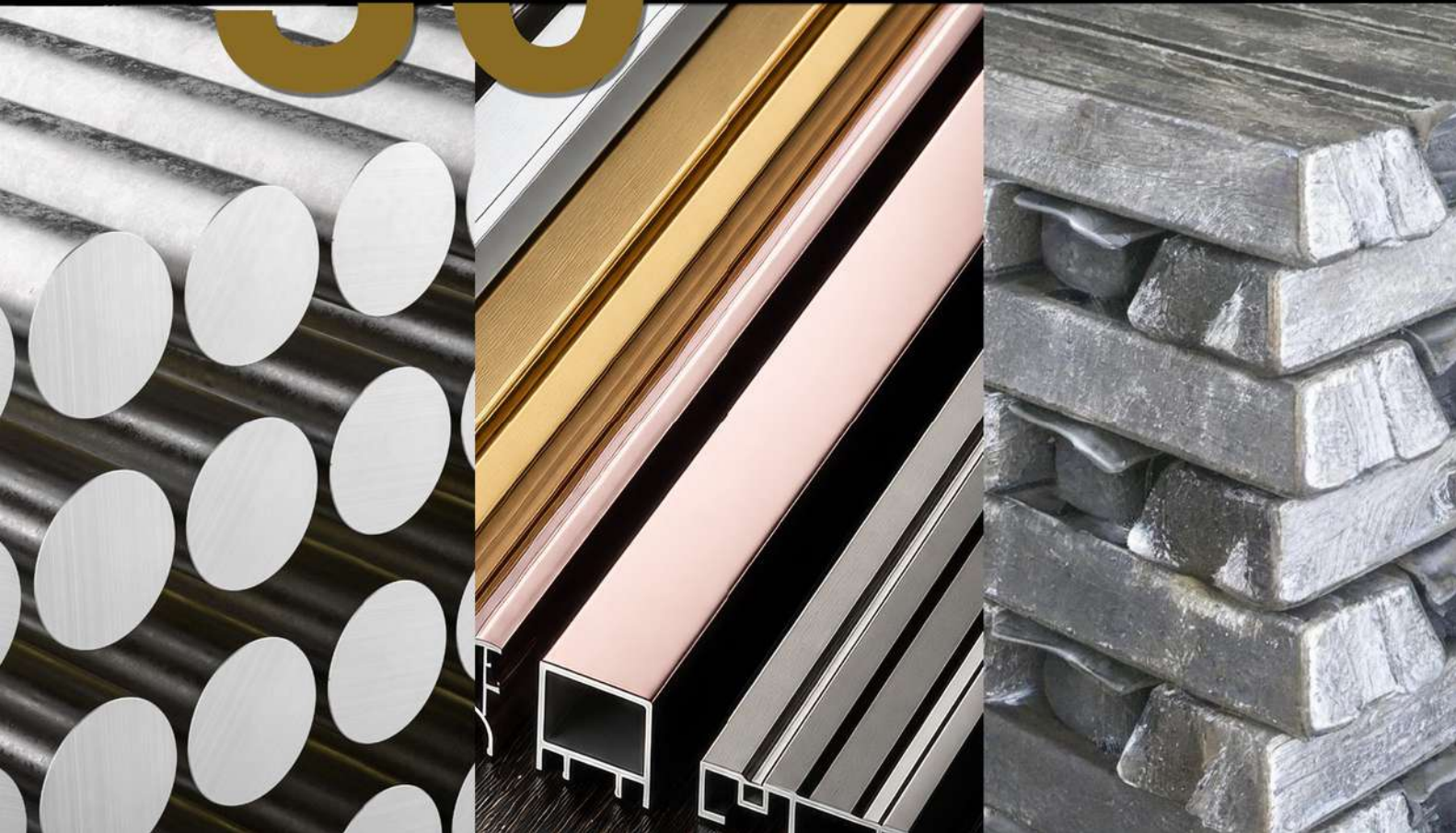


KONARKA[®]
M E T A L S

**WE UNDERSTAND
ALUMINIUM**

30
Years of Trust

Manufacturing Customised
Aluminium Extrusions Profiles ,
High-Grade Aluminium Alloy Billets & Ingots



OUR PRODUCT RANGE

At Konarka Metals, we manage the **complete aluminium lifecycle**, from premium casting ingots and high-quality billets to complex custom extrusions across **1000–6000 alloy series**. Using fully homogenised billets and precise alloying, we ensure a stable, uniform microstructure free from segregation. This advanced thermal treatment delivers superior extrudability, pristine surface finish, faster production, and **uncompromised mechanical strength**. Whether supplying billets, ingots, or intricate architectural profiles, Konarka Metals delivers consistent quality and reliability.

1. Billets Chemical Composition

Our aluminium alloys are cast and verified in accordance with **EN 573-3** standards. We also manufacture and certify materials conforming to the American standards (**ASTM B221-21**) upon customer request.

Alloy	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Zn (%)	Cr (%)	Ti (%)	Al (%)
1050	≤0.25	≤0.40	≤0.05	≤0.05	≤0.05	≤0.05	-	≤0.03	≥99.5
1070	≤0.20	≤0.25	≤0.04	≤0.03	≤0.03	≤0.04	-	≤0.03	≥99.7
2014	0.50-1.20	≤0.70	3.90-5.00	0.40-1.20	0.20-0.80	≤0.25	≤0.10	≤0.15	Rem%
2024	≤0.50	≤0.50	3.80-4.90	0.30-0.90	1.20-1.80	≤0.25	≤0.10	≤0.15	Rem%
3103	≤0.50	≤0.70	≤0.10	0.90-1.50	≤0.30	≤0.20	≤0.10	≤0.10	Rem%
6005	0.60-0.90	≤0.35	≤0.10	≤0.10	0.40-0.60	≤0.10	≤0.10	≤0.10	Rem%
6060	0.30-0.60	0.10-0.30	≤0.10	≤0.10	0.35-0.60	≤0.15	≤0.05	≤0.10	Rem%
6061	0.40-0.80	≤0.70	0.15-0.40	≤0.15	0.80-1.20	≤0.25	0.04-0.35	≤0.15	Rem%
6063	0.20-0.60	≤0.35	≤0.10	≤0.10	0.45-0.90	≤0.10	≤0.10	≤0.10	Rem%
6082	0.70-1.30	≤0.50	≤0.10	0.40-1.00	0.60-1.20	≤0.20	≤0.25	≤0.10	Rem%

2. Ingots Chemical Composition

Standard	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Zn (%)	Cr (%)	Ti (%)	Al (%)
JIS H 5302	9.60-12.00	≤ 1.30	1.50-3.50	≤ 0.50	≤ 0.30	≤ 1.00	-	-	Rem%
BS 1490	10.00-13.00	≤ 0.60	≤ 0.10	≤ 0.50	≤ 0.10	≤ 0.10	-	≤ 0.20	Rem%
BS 1490	10.00-13.00	≤ 0.60	≤ 0.20	0.30-0.70	0.20-0.60	≤ 0.10	-	≤ 0.20	Rem%
BS 1490	6.50-7.50	≤ 0.50	≤ 0.10	≤ 0.30	0.20-0.60	≤ 0.10	-	≤ 0.20	Rem%
EN 1706	6.50-7.50	≤ 0.15	≤ 0.05	≤ 0.10	0.25-0.45	≤ 0.07	-	0.08-0.25	Rem%
EN 1706	9.00-11.00	≤ 0.55	≤ 0.05	≤ 0.45	0.20-0.45	≤ 0.10	-	≤ 0.15	Rem%
EN 1706	10.50-13.50	≤ 0.55	≤ 0.05	≤ 0.55	≤ 0.05	≤ 0.10	-	≤ 0.15	Rem%
EN 1706	10.50-13.50	≤ 1.10	0.70-1.20	≤ 0.55	≤ 0.30	≤ 0.55	-	≤ 0.20	Rem%
EN 1706	8.00-11.00	≤ 1.30	2.00-4.00	≤ 0.55	0.05-0.55	≤ 1.20	-	≤ 0.25	Rem%



OUR STRENGTHS

EXCELLENCE:

Scratch-Free Finish &
Unparalleled Precision

SPEED:

90% of Orders
Delivered in 15 Days

CUSTOMISATION:

Tailor-Made Profiles for
Every Industry

INNOVATION:

Thin Profiles with
Superior Strength

INDUSTRIES WE SERVE



LED Light Aluminium Sections

High Strength
Light Weight
Easily Fabricated



Facade Aluminium Sections

Superior Anodised Finish
High Strength but Light Weight
Dimensional Accuracy



Heat Sink Aluminium Sections

Good Thermal Conductivity
High Strength
Good Conductor of Electricity



Aluminium Blinds Profiles

Light and Energy Saving
High Heat Reflectivity
High Strength & Stability



Hardware Aluminium Sections

High Strength & Stability
Easily Machined
Superior Anodised Finish



Glass Partition Aluminium Sections

Superior Anodised Finish
Easy Assembly
Dimensional Accuracy



Bus Body Aluminium Profiles

No Twist/Bend
Crack Free Bending
Proven Vibrations Capacity



Automobile Aluminium Sections

No Twist/Bend
Scratch Free Finish
High Strength





OUR MANUFACTURING CAPABILITIES

Backed by **30 years of experience**, our operations are driven by superior extrusion quality, responsible production, and strict workplace safety. Spread across a **2,50,000 sq. ft.** manufacturing facility, we operate a fully integrated, energy-efficient production line with an annual capacity of **18,000 MTPA of Billets, 6,480 MTPA of Profiles, and 3,600 MTPA of Ingots.** Our in-house foundry features two Skelner Furnaces (6 MT and 12 MT), engineered for high-yield resource optimization and minimal material waste. Using Hot Top Casting technology with 4", 5", 6", 7", and 9" moulds, we ensure superior grain structure and durability. Equipped with **750 MT and 1500 MT** extrusion presses, we manufacture complex conical designs with precision while delivering high-grade products that support a more sustainable supply chain.

INDUSTRIES WE SERVE



AHU Aluminium Profiles

Easy to Install
Superior Anodised Finish
Perfect Insulation



Furniture Aluminium Sections

Light Weight
Superior Strength
Machinability



Medical Equipment Aluminium Profiles

High Strength
Non Corrosive
Durable



System Window Profiles

Sleek Profile
Dimensional Accuracy
Superior Anodised Finish



Server Rack Aluminium Sections

High Strength but Low Weight
Easily Fabricated
Superior Surface Finish



Stationery Profiles

Superior Ductility
Thin-Walled
Superior Anodised Finish



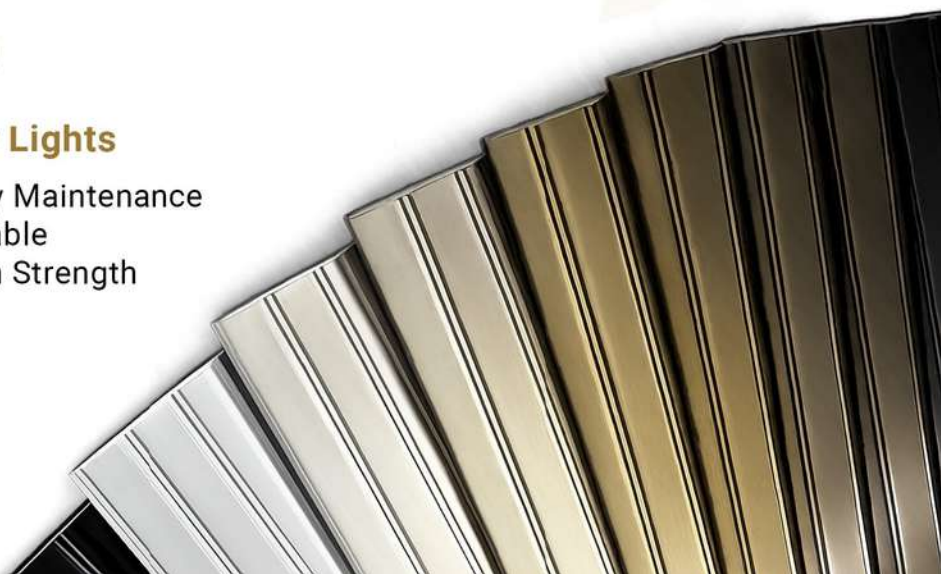
Automation

Precision T-Slots
Non-Scratch Anodised Finish
Customised Length



Sky Lights

Easy Maintenance
Durable
High Strength





OUR CERTIFIED QUALITY & PRECISION

Following extrusion, every profile undergoes precision refinement using an **Imported Profile Correction Machine** for perfect flatness and angularity, followed by an **Automatic Strapping Machine** for secure packing. Quality is ensured through a strict **9-step Quality Control process** and TUV INDIA-verified **ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, and BIS 733:2025** certifications. Structural integrity and alloy composition are tested using the German-made **SPECTROMAXx LMX10** Optical Emission Spectrometer, **FIE 100KN UTM (UTES-10 HGFL)** with Extensometer (EE-2) for tensile strength, and the **FIE Rockwell Hardness Tester (RASN-TS)**, ensuring every profile meets the highest international engineering standards.

INDUSTRIES WE SERVE



Aluminium Crane Components Profiles

Ergonomic Handling
High Reliability
Protection from Dirt



Ladder Aluminium Sections

High Strength
Light Weight
Resistant to Oxidation



Display Aluminium Sections

High Strength
Light Weight
Long Service Life



Formwork Aluminium Sections

Dimensional Accuracy
High Strength
Easily Fabricated



Textile Aluminium Sections

Dimensional Accuracy
High Strength
Light Weight



Skirting

Sleek Profile
Superior Anodised Finish
Bendable



Railing

Dimensional Accuracy
High Strength
Long Service Life



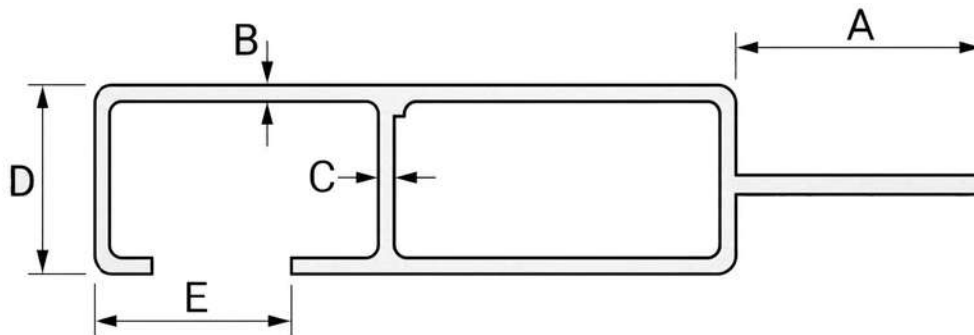
Electronics

Micro-Precision
Thermal Management
Superior Anodised Finish



GENERAL TOLERANCE

All dimensional tolerances are manufactured in accordance with EN 755-9 standards. Extrusions conforming to American standards (ANSI H35.2) can be manufactured and certified upon customer request.



- A.** Wall thickness except those enclosing the hollow spaces in hollow profile.
- B.** Wall thickness enclosing the hollow spaces in hollow profile except those between B two hollow spaces.
- C.** Wall thickness between two hollow spaces in hollow profile.
- D.** All dimensions (except wall thickness) between points on the cross section of the profile or the centers of open screw holes including open ends.
- E.** The length of the shorter leg of profile with open ends.

1. Tolerance on dimensions other than wall thickness

Tolerance on cross-sectional dimensions

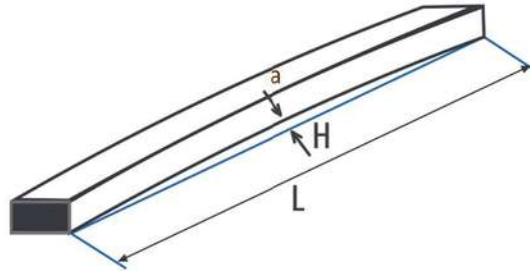
Dimensions D (mm)		Tolerance on D (Expect open ends) (mm)	Tolerance on E ≤ 60 (mm)	D (Open Ends) 60 < E ≤ 120 (mm)
Over	Up to and Including			
10	15	±0.20	±0.20	-
15	30	±0.25	±0.25	-
30	45	±0.30	±0.30	±0.45
45	60	±0.40	±0.40	±0.55
60	90	±0.45	±0.45	±0.65
90	120	±0.60	±0.60	±0.80
120	150	±0.80	±0.80	±1.00

2. Tolerance on wall thickness of solid and hollow profiles

Nominal wall Thickness A B C (mm)		Tolerance on wall Thickness A (mm)		Tolerance on wall Thickness B&C (mm)	
Over	Up to and including	Circumscribing Circle (CD ≤ 100)	Circumscribing Circle (100 < CD ≤ 130)	Circumscribing Circle (CD ≤ 100)	Circumscribing Circle (100 < CD ≤ 130)
-	2	±0.20	±0.30	±0.15	±0.20
2	3	±0.15	±0.25	±0.25	±0.40
3	6	±0.60	±0.30	±0.20	±0.40
6	10	±0.60	±0.35	±0.80	±0.25
10	15	±0.30	±0.40	±0.80	±1.00
15	20	±0.35	±0.45	±0.20	±1.50
20	30	±0.40	±0.50	-	-

(Note: CD = Circumscribing Circle Diameter)

3. Straightness Tolerances



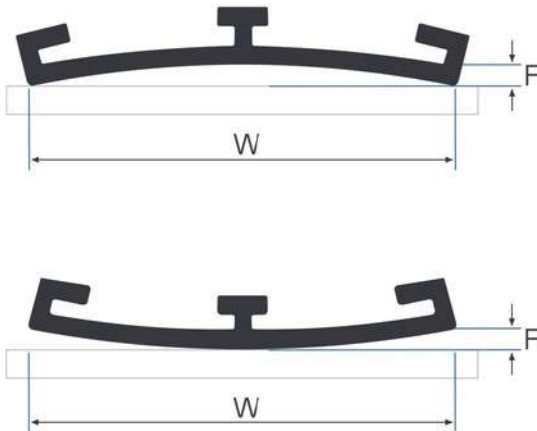
Straightness tolerance H (mm) for specified length L. (mm)					
$L \leq 1000$	$1000 < L \leq 2000$	$2000 < L \leq 3000$	$3000 < L \leq 4000$	$4000 < L \leq 5000$	$5000 < L \leq 6000$
0.7	1.3	1.8	2.2	2.6	3.0

(Note: Straightness tolerance H (mm) for specified length L (mm))

4. Cut Length Tolerance

Width W (mm)		Maximum Allowable Deviation F (mm)
Over	Up to and Including	
-	30	0.50
30	60	0.60
60	90	0.80
90	120	1.00
120	150	1.50

5. Convexity-Concavity Tolerances

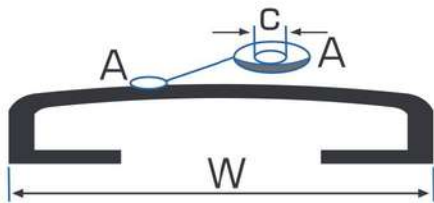


6. Maximum Allowable Corner and Fillet Radius

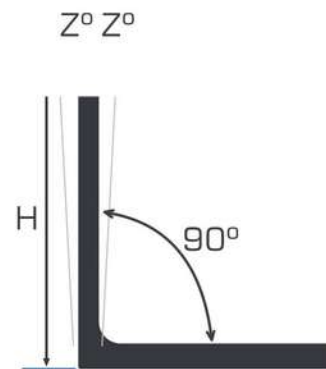
Sharp corners & fillets may be slightly rounded otherwise indicated on the drawing. The maximum allowable corner & fillet radius shall be as specified in below table.

Width W (mm)		Maximum Allowable Corner & fillet radius
Over	Up to and Including	
-	30	0.50
30	60	0.60
60	100	0.80
90	120	1.00
120	150	1.50

7. Contour Tolerances



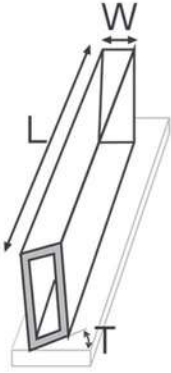
8. Tolerance for Right Angles



Width W (mm)		Contour Tolerance = Diameter C of the Tolerance Circle (mm)
Over	Up to and Including	
-	30	0.3
30	60	0.5
60	90	0.7
90	120	1.00
120	150	1.20

Height H (mm)		Maximum Allowable Deviation Z from a Right Angle
Over	Up to and Including	
-	30	0.30
30	50	0.40
50	80	0.50
80	100	0.60
100	120	0.70
120	150	0.80

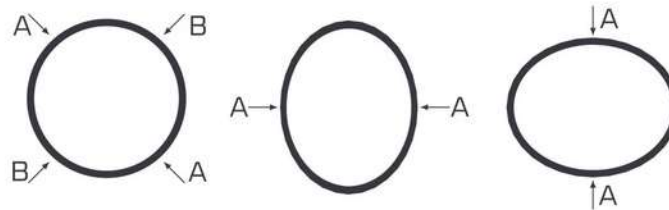
9. Twist Tolerances



Width W (mm)		Straightness tolerance H (mm) for specified length L (mm)					
Over	Up to end Including	L ≤ 1000	1000 < L ≤ 2000	2000 < L ≤ 3000	3000 < L ≤ 4000	4000 < L ≤ 5000	5000 < L ≤ 6000
-	75	1.0	1.2	1.5	1.8	2.0	2.0
75	100	1.0	1.2	1.5	2.0	2.2	2.5
100	125	1.0	1.5	1.8	2.2	2.5	3.0
125	150	1.2	1.5	1.8	2.2	2.5	3.0

(Note: Twist tolerance T (mm) for specified length L (mm). Lengths over 6000 mm are subjected to agreement between Supplier and Purchaser.)

10. Round Tubes: Diameter Tolerance



Specified Diameter Outside or inside (mm)	Allowable Deviation of Mean Diameter from Specified Diameter (Dia Tolerance) ± mm	Allowable Deviation of Diameter at Any Point from Specified Diameter (Ovalness Tolerance) ± mm
Over 18 up to 30	0.30	0.60
Over 30 up to 40	0.36	0.80
Over 40 up to 50	0.45	0.90
Over 50 up to 60	0.54	1.00
Over 60 up to 80	0.60	1.30
Over 80	1% of Dia	2.5% of Dia

Note:

1. When outside diameter, inside diameter, and wall thickness are all specified, standard tolerances are applicable to any two of these dimensions, but not to all three.
2. Mean diameter is the average of two diameter measurements taken at right angles to each other at any point along the length. In other words, mean diameter is $1/2 (AA+BB)$.
3. Ovalness tolerance is not applicable for annealed temper or if the wall thickness is less than 2.5% of the outside diameter



OUR PAN INDIA DISTRIBUTION



Disclaimer: This map is for illustrative purposes only and does not imply any position on political boundaries, territorial claims, or legal status.



KONARKA[®]

M E T A L S

Global Reach

Exporting to the UAE, SRI LANKA & SOUTH AFRICA.
Built on 30 years of relationships.

Certifications

- ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018 (TUV Nord, Germany)
- BIS 733: 2025

Associations

- Primary Member of ALEMAI
- JITO JBN PRATHAM Member
- Life Member of BNMA
- BNI Super Achievers Member
- Lions Club of Bombay Vidhyavihar Member
- Umargam Industries Association Member Associate
- Centenary Member of MACCIA

Registered Office (Mumbai):

D-211, Neelkanth Business Park,
Vidyavihar West, Mumbai - 400086

Factory (Gujarat):

Survey No. 332/P2, 334 & 336/P1,
Vankas, Umbergaon, Valsad - 396150

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🌐 www.konarkametals.com

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