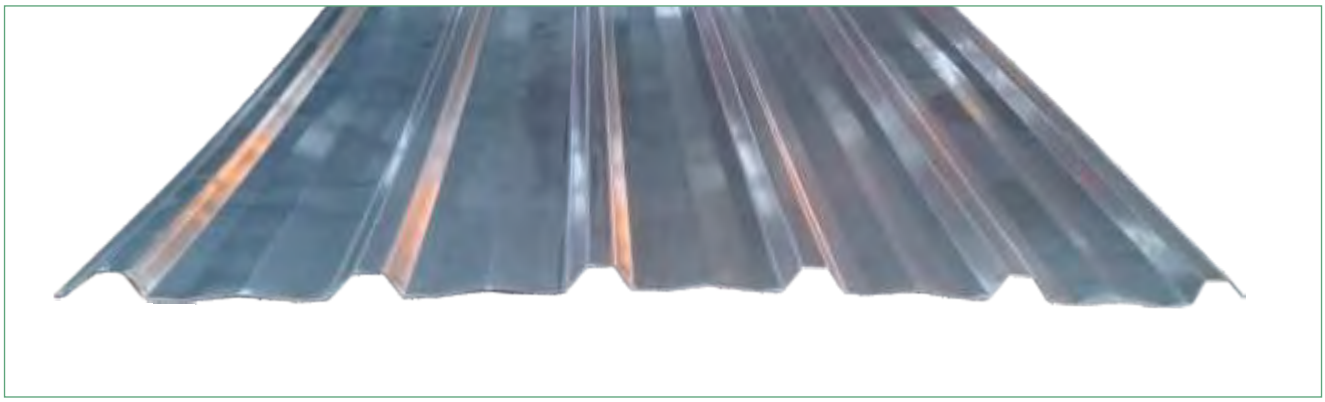
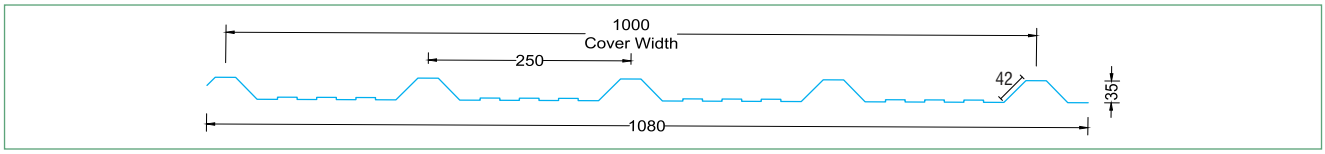
FAISAL SHINE - ALUMINIUM SHEET

FAISAL SHINE - ALUMINIUM SHEET:

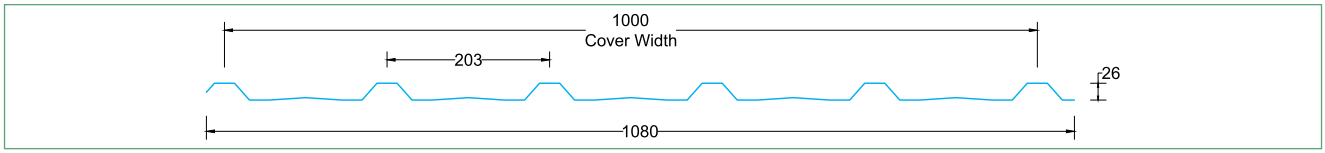
Faisal Shine-Aluminium Sheet Aluminium is a silvery, white, soft, non-magnetic, ductile material in the boron group. Aluminium sheet can be easily shaped, rolled, drawn extruded, welded therefore it is the ideal material for construction. Aluminium sheet weight is one third of iron sheet and three times greater elongation than iron. Aluminium sheet is near to zero maintenance cost in combination with low specific weight that make the ideal choice.



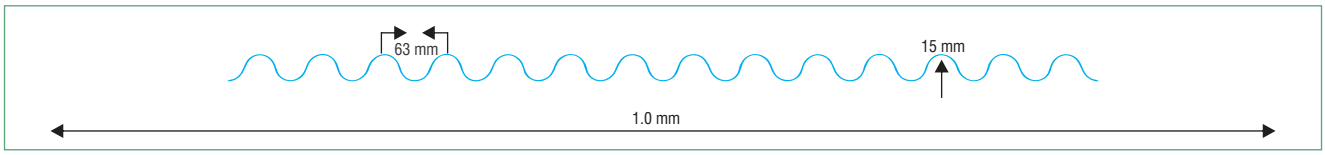
PROFILE



Faisal Shine - SN1000 Sheet Profile



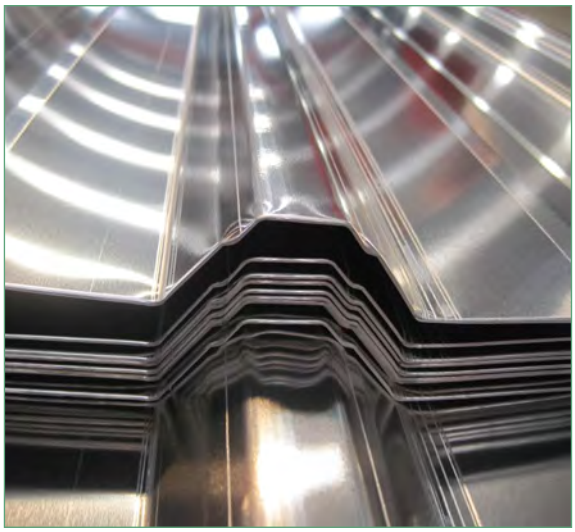
Faisal Shine - SN Smart Sheet Profile



Faisal Shine - Corrugated Sheet Profile

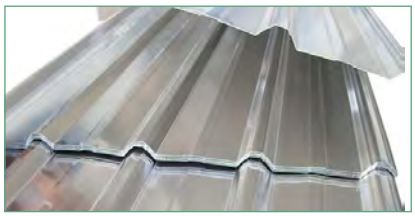
PROPERTIES:

Property	Value
Atomic Number	13
Atomic Weight (g/mol)	26.98
Valency	3
Crystal Structure	FCC
Melting Point (°C)	660.2
Boiling Point (°C)	2480
Mean Speci c Heat (0-100°C) (cal/g.°C)	0.219
Thermal Conductivity (0-100°C) (cal/cms. °C)	0.57
Co-Ef cient of Linear Expansion (0-100°C) (x10-6/°C)	23.5
Electrical Resistivity at 20°C (Ω.cm)	2.69
Density (g/cm3)	2.6898
Modulus of Elasticity (GPa)	68.3
Poisson's Ratio	0.34

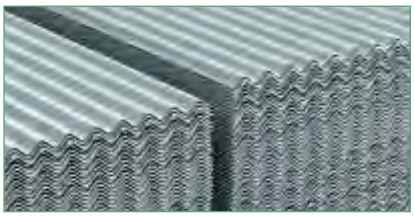


ALUMINIUM PROFILES

SN1000



SN Smart



Corrugated Sheet

SPECIFICATION:

Thickness : 0.71-1.22 mm
Length : As per requirements
Width : As per Pro le
Finish : Plain Mill, Stucco, Color Coated
Color : As Per Availability
Grade : H14, H18,

ADVANTAGES

- Rust proof
- High insulation
- Fire proof
- Good resale value
- Life span
- Non-magnetic
- Non-toxic
- Sound and Shock Absorption
- Non-sparking
- Recyclability

MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS:

ALLOY	TEMPER	TENSILE STRENGTH (MPa)		ELONGATION % MINIMUM (50 MM GAUGE LENGTH)		
		MIN	MAX	0.50 - 0.80 MM	0.80 - 1.30 MM	>1.3 0 MM
1100/1200	0	75	105	17	22	30
1100/1200	H12	95	130	3	5	8
1100/1200	H14	110	145	2	4	5
1100/1200	H16	130	165	2	3	4
1100/1200	H18	150	-	2	2	3
8011	0	85	120	20	23	25
8011	H12	105	140	5	6	7
8011	H14	125	160	3	4	5
8011	H16	150	180	2	3	4
8011	H18	175	-	2	2	3

CHEMICAL COMPOSITION OF ALUMINIUM ALLOYS:

CHEMICAL COMPOSITION LIMITS (%)											
	% Si	% Fe	% Cu	% Mn	% Mg	% Cr	% Zi	% Ti	(Others)	(Others) Total	% Al
1100	0.90 (Si+Fei)		0.05 – 0.20	0.05	-	-	0.10	-	0.05	0.015	99.00 (Min)
1200	00 (Si+Fe)		0.05	0.05	-	-	0.10	0.05	0.03	0.15	99.00 (Min)
8011	0.60-0.95	0.60-0.95	0.20	0.10	0.10	-	0.20	0.20	0.05	0.15	98.00 (Min)

Single number indicates maximum content.

APPLICATIONS:

- Industrial factories
- Warehouse
- High grade plants
- Parking Sheds
- Stadiums
- Farm house
- Go-down
- Pre-Engineering Buildings

FEATURES AND BENEFITS:

- Superior tensile strength
- Highly durable
- Long spanning capability
- High impact resistance
- Light weight
- Ef cient and convenient installation
- Colour choice
- Long lasting colour stability
- Superior corrosion resistance
- All weather proof