

SPECIFICATION SHEET

Aluminum Corrugated Sheet / Aluminum Roofing Sheet

Aluminum corrugated sheet or aluminium roofing sheet is a highly cost-effective roofing product. Aluminum has light weight, easy moulding, anti-oxidation properties, leading it is an ideal material for roofing quality materials. The product widely used in large industrial, commercial and civil buildings complex roof.

No	Alloy	Thickness	Effectd Width	Length
1	1050,1060,1070 1100,1200 3003 5052	0.3-1.5mm	600-1050 mm	2500-12000 mm As per customer request.

CHEMICAL COMPOSITION (%) Standard: GB/T 3190-2008

Grade	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
1050	0.25	0.40	0.05	0.05	0.05	-	-	0.05	0.03	99.5
1060	0.25	0.35	0.05	0.03	0.03	-	-	0.05	0.03	99.6
1070	0.20	0.25	0.04	0.03	0.03	-	-	0.04	0.03	99.7
1100	0.95 Si+Fe		0.05-0.20	0.05	-	-	-	0.10	-	99.0
1200	1.0 Si+Fe		0.05	0.05	-	-	-	0.10	0.05	99.0
3003	0.6	0.7	0.05-0.20	1.0-1.5	-	-	-	0.10	-	remain
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	-	0.10	-	remain

MECHANICAL PROPERTIES Standard: GB/T 3880.2-2006; GB/T 4437.1-2015

Alloy	Alclad classify	Temper	Sample Temper	Thickness /mm	Tensile strength R _m /MPa	Yield strength R _{p0.2} /MPa	Elongation/%		Bending Radius*1			
							A _{50mm}	A _{5.65}				
1050	-	O	O	ALL	60-95	20	25	22	-			
				H112	O	ALL	60	-	25	22	-	
				H22	H22	>0.20-0.30	80-120	65	-	2	-	0t
						>0.30-0.50			-	3	-	0t
						>0.50-0.80			4	-	0t	
						>0.80-1.50			6	-	0.5t	
		>1.50-3.0	8	-	0.5t							
		H24	H24	>0.20-0.30	95-130	75	-	1	-	0.5t		
				>0.30-0.50			-	2	-	0.5t		
				>0.50-0.80			3	-	0.5t			
				>0.80-1.50			4	-	1.0t			
				>1.50-3.0			5	-	1.0t			
O	O			ALL			60-95	15	25	22	-	
1060	-	H112	H112	ALL	60	-	25	22	-			
				H22	H22	>0.50-1.50	80-120	60	6	-	-	
		H24	H24	>1.50-6.0	95-135	70	-	12	-	-		
				>0.20-0.30			1	-	-			
				>0.30-0.50			2	-	-			

Alloy	Alclad classify	Temper	Sample Temper	Thickness /mm	Tensile strength R _m /MPa	Yield strength R _{p0.2} /MPa	Elongation/%		Bending Radius* ¹
							A _{50m3m}	A _{5.65}	
1060	-	H24	H24	>0.50-0.80	95-135	70	2	-	-
				>0.80-1.50			4	-	-
				>1.50-3.0			6	-	-
		O	O	ALL	75-105	20	25	22	-
		H112	H112	ALL	75	25	25	22	-
1100	-	H22	H22	>0.20-0.50	95-130	75	3	-	0t
				>0.50-1.50			5	-	0t
				>1.50-6.0			8	-	0t
		H24	H24	>0.20-0.30	110-145	95	1	-	0t
				>0.30-0.50			2	-	0t
				>0.50-1.50			3	-	0t
				>1.50-4.0			5	-	0t
		O	O	ALL	95-130	35	25	22	-
		H112	H112	≤ 1.60	95	35	-	-	-
				> 1.60	95	35	25	22	-
>0.20-0.50	6			-	0t				
3003	-	H22	H22	>0.50-1.50	120-160	80	7	-	0.5t
				>1.50-3.0			8	-	1.0t
				>0.20-0.50			4	-	0.5t
		H24	H24	>0.50-1.50	145-195	115	4	-	1.0t
				>1.50-3.0			5	-	1.0t
O	O	ALL	170-240	70	15	17	-		
H112	H112	ALL	170	70	13	15	-		
5052	-	H22	H22	>0.20-0.50	210-260	130	5	-	0.5t
				>0.50-1.50			6	-	1.0t
				>1.50-3.0			7	-	1.5t
		H24	H24	>0.20-0.50	230-280	150	4	-	0.5t
				>0.50-1.50			5	-	1.5t
>1.50-3.0	6	-	2.0t						

*1 Coil samples bending 90°, t – thickness of coil

PHYSICAL PROPERTIES

Property	Value	Unit
Density(20℃)	2.65-2.73	g/cm ³
Melting Point	575-660	℃
Thermal Expansion	23.4-23.8	(10-6K-1)(20/100℃)
Specific heat capacity	890-910	J/(Kg.K)(0/100℃)
Modulus of Elasticity	69-71	GPa
Thermal Conductivity	172-225	W/(m. K) 20℃
Resistivity	29.1-38.22	nΩ .m

Formability
Very Good

Weldability
Good

Machinability
Very Good

Corrosion Resistance
Very Good

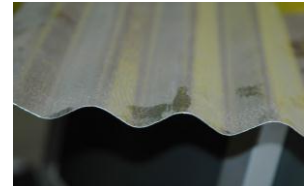
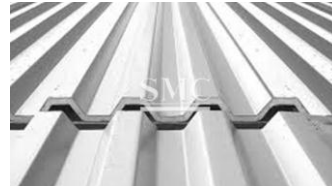
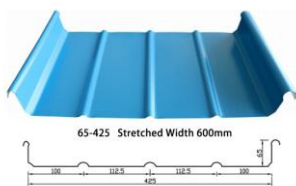
APPLICATIONS

It is widely used as roofing material, such as airport terminals, decking, flooring, siding, aircraft maintenance hangar, stations and major transport hubs, etc.

SURFACE TREATMENT

Anodized, Electrophoresis, Powder coating, Silver matt, wooden grain, etc. Color can be customized as per customer request.

PRODUCTS



PACKING

Shanghai Metal Products are packed and labeled according to the regulations and customer's requests. Great care is taken to avoid any damage which might be caused during storage or transportation. In addition, clear labels are tagged on the outside of the packages for easy identification of the product I. D. and quality information.

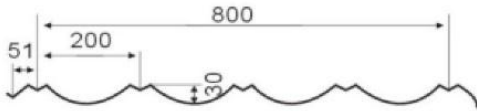


Standard roofing size

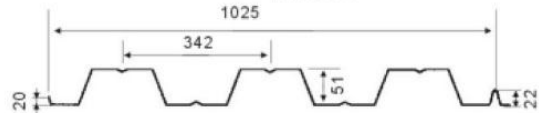
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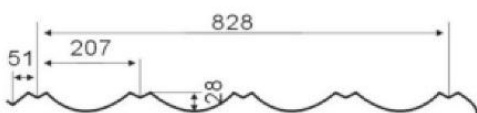
30-200-800 展开宽度: 1000mm



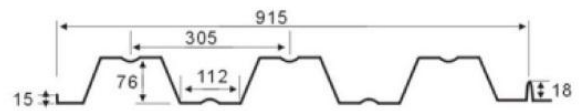
51-342-1025 展开宽度: 1250mm



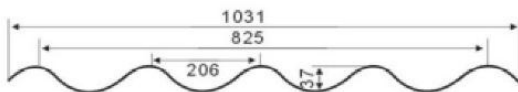
28-207-828 展开宽度: 1000mm



76-305-915 展开宽度: 1250mm



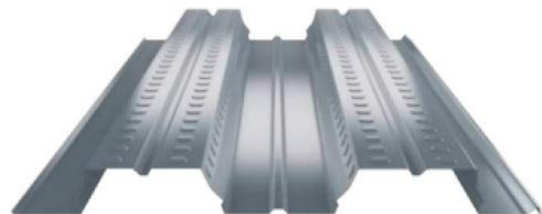
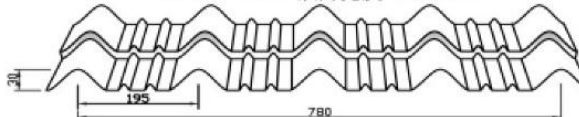
37-206-825/1031 展开宽度: 1000mm



51-250-750 展开宽度: 1000mm



30-195-780 展开宽度: 1000mm



76-344-688 展开宽度: 1000mm

