WISDOM METAL COMPOSITES LTD

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ALUMINIUM LATTICE PANEL Enlight Your Inspiration





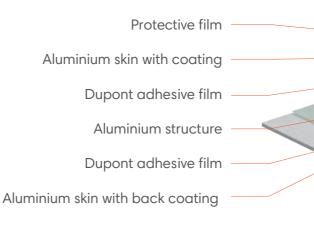


ALUMINIUM LATTICE PANEL

Alucosun introduces the new generation composite panels in innovated aluminium core instead of normal polyethylene or mineral-filled core. This new product named aluminium lattice panel is developed by Alucosun for strict requirements of fire retardancy regulations in architecture products.

Constructed by 100% aluminium structure, Alucosun aluminium lattice panel is combined with extraordinary fireproof performance, lightweight and ease of fabrication of composites makes Alucosun aluminium lattice panel an architects' dream.

Aluminium lattice panel is composed of non-combustible aluminium core and sandwiched between 0.7mm and 0.5mm thick aluminium (exterior grade of AA3003 or AA5005) for back surface.



DIMENSIONS

Item Panel thickness Front aluminium skin thickness Width Length Alloy type Weight

TEST REPORT

Test Item	Peel strength	Tensile Strength	Shear Strength by punch		
Method	Method GB/T 17748-2008		ASTM D732-10		
Result	≥7 N/mm	69Mpa	38Mpa		

Test Item	Fire Rating ASTM									
Method	BS476-4	BS EN 13501-1		BS EN 13501-1 AS 1530.1 AS 1530.3			ASTM E84			
Result	Non-combustible	Fire behavior- A2	Smoke production- s1	Flaming Droplets- d0	Not deemed Combustible	Ignitability Index 0	Heat Evolved 0	Spread of Flame 0	Smoke Developed 1	Class A



Specifications

3mm, 4mm

0.5mm, 0.6mm, 0.7mm

1000mm-1570mm

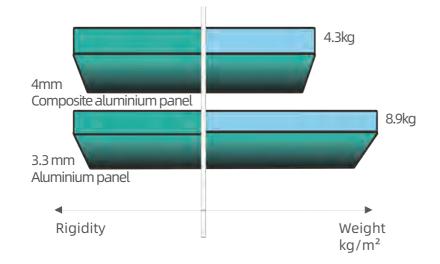
1000mm-6000mm

AA3003; AA5005

4mm: 4.3kg/m2; 3mm: 3.8kg/m2

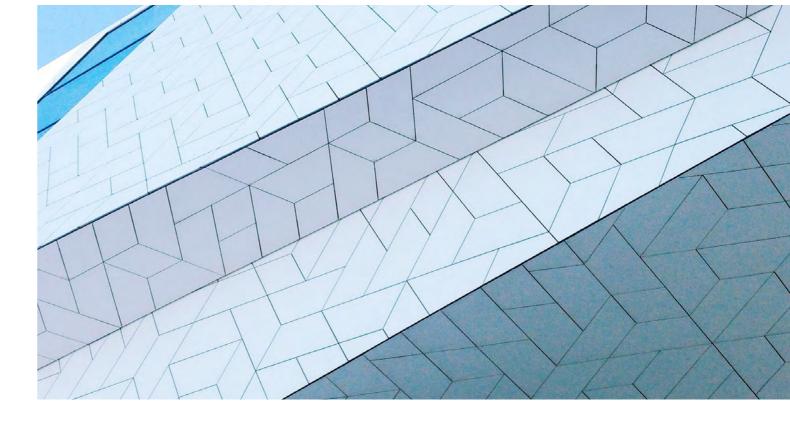
WISDOM METAL COMPOSITES LTD 02

ADVANTAGES



LIGHT WEIGHT

With the innovation of core technology, Alucosun lattice panel has only 4.3kg/m2 weight which is lighter than other materials with the same rigidity. It saves cost in transportation and labor.



FORMABILITY

Aluminium lattice panel aluminium core is convenient to be cut and grooved and less wearing on routers. Therefore, it saves your budget and time. It takes on many different shapes and its perfect formability does not affect its stability or flatness.





ENVIRONMENT FRIENDLY

Being a member of our earth, we have the responsibility to protect our homeland. Our corrugated aluminium core of Alucosun A2 panel is 100% recyclable. Also there is no pollution during the production and application.

FIREPROOF PERFORMANCE

This structure assures the panel of non-combustibility and makes it more reliable and popular in all facade applications, especially in USA (NFPA285), UK (BS 476-4 standard) and Australia (AS1530.1 standard) where there is a higher requirement and demand on fire retardancy.

	CHZEH — 1800 有机度气活性炭吸附催化脱附净化系统	
	项目名称: <u>江苏宿迁天虹产业园废气净化项目</u>	
	施工单位:佛山市南海新华日美涂装设备有限公司	
	处理风量:180000M ¹	
	出厂日期:2020年4月	
<u>a 18</u> -		
	设备工艺流程 Legipment process flow chat	
		II AD
	设备功能介绍 Divide function introduction	
	本套有机废气净化系统设备采用我司持有的连续级附,连续级附的轮换技术,由活性炭 吸附、热气流脱附和催化燃烧三种组合工艺净化有机废气。	
	場用工作,現但差置采用模块式動容活性发作为場用截体,前端设置高效水气过差装置, 冲化效率高,确保和调定器的使用寿命。或气觉集后进入活性发现很差置,利用活性发差效 几起巨大的表面能力等特性就像气中的有机成气能则用并浓度保持其中,有机酸气组分从而与 其它组分分开,其它组分气体(活冲气体)经风机稳定。	
	設加工作。E期局表展用有机度可修在使物净化发展。这时候的角生温度-50℃、偏化使 新中化发展出达的受气=10℃,在用温度使节系达增持起的气体温度计算器改变。如节的 点不能限制的温度后很入就性能实为进行的抽入温。按一定本面比地现所在式性发上的有机度 气质热气氛却上升已往他全部要定计分解。其我但坚健实觉的高度有机量气管过进一步 加热后。在最优别的作用下量化分解。转化起二氧化基碳水,均能得放出的热量资源设施 品质的反相并可能最大人都使把最优的浓度有利量化。另外一部分出量进度的消费循环,最新 能够长期并不是加入工程的浓度和一定上并过程在进行一定时间达到中断点。最新 是在分离时间无需为不能到。如此上并过程在进行一定时间达到中断点。最新	04

DATA

PROPE	RTIES	TEST STANDARD	CONDITION or UNIT	RESULT
Unit We	eight	ASTM D 792	Kg/m²	4.3
Alumin	ium Front Thick	/	mm	0.7
Coatin	g Thickness	EN ISO 2360-2003	μm	32
Pencil I	Hardness	ASTM D3363	HB min	2Н
Impact	t Resistance	ASTM D2794	kg.cm	>110
Coatin	g Flexibility	ASTM D4145	T-bend (0-3T)	2T
Coatin	g Adhesion	ASTM D3359	No adhesion loss	Passed
Color F	Retention	ASTM D2244	Max Rating 5 Units after 4000 Hours	Passed
Gloss R	Retention	ASTM D523	80% after 4000 Hours	Passed
Chalk F	Resistance	ASTM D4214	Max Rating 8 Units after 4000 Hours	Passed
Boiling	Water Resistance	AAMA 2605	100° for 20mins	Less than 5% 4B
Muriati	c Acid Resistance	AAMA 2605	10 drops of 10% HLC,15mins	No blistering
Alkali R	Resistance	ASTM 1308	10%,25% NaOH, 1 Hour	No change
Salt Sp	ray Resistance	ASTM B117	Upto 4000 Hours	No change
Low- H	ligh Temperature	/	-40 °C - 80 °C	No change
Peel Str	rength	ASTM D1781	mm·N/mm	140mm·N/mm(Front skin)、125mm·N/mm(Rear skin)
Tensile	Strength	ASTM E8	Мра	5mm/min, 69MPa
Weight	ed Sound reduction index	ISO 717-1:2013	db	22(-1,-2)





SURFACE TREATMENT

Various color and finish options make Alucosun Latest[®] a favorite choice of building envelope. Variety of spectra , durability of the paint systems quality of the finish etc. makes it a suits to any application of cladding whether it is a commercial building, iconic structure with unique identity or an established brand . Alucosun Latest[®] offers a variety of standard and custom finishes out of in-house coil coating facility. Alucosun Latest[®] is surface finished with PVDF and NANO paint system in continuous coil coating process which ensure quality and consistency in compliance with AAMA 2605 specification.



PVDF paint system with composed 70% PVDF resin is known for high resistance to UV rays and environmental effects therefore Alucosun[®] is durable and consistent performance in extreme weather conditions.

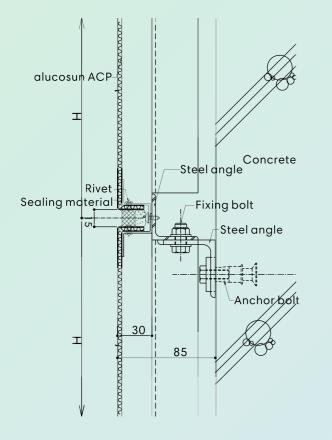
NANO-PVDF is a self-cleaning paint system. Such Paint system provides an additional clear top coat with highly cross-linked NANO particles on PVDF finish; which ensures smooth surface. Smooth and clear surface makes dirt and dust difficult to stick on which gives the building an always clean look. PVDF and NANO paint systems are highly durable assures 15-20 years of finish warranty.

ANODIZED panels with various finish options are available in Alucosun® however it is subject to certain time and size limitations. Naturally protected by anodized layer panels are highly durable scratch resistant provides warranty about 30 Years.

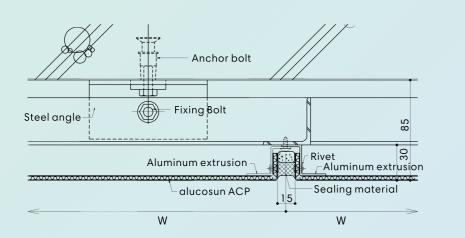
PE and HDPE paints are used widely in many applications thanks to the extensive ranges of colors and economy-consideration, now the guarantee years can be extended from 5 years to 8 years with the different types of coating.HDPE finishes are also available as custom paint system.



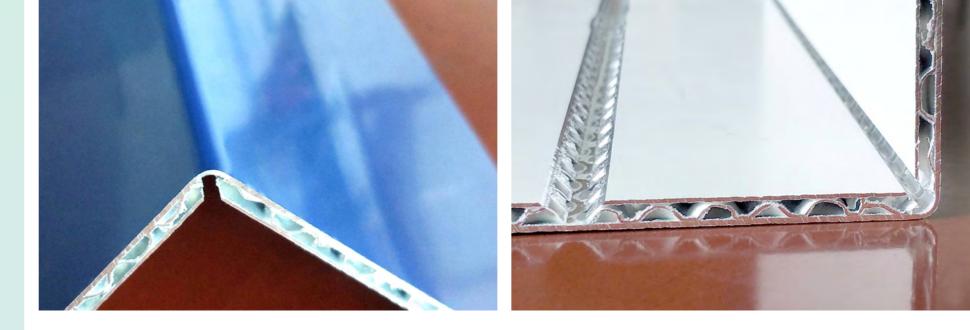
TYPICAL FIXING SYSTEM



VERTICAL SECTION



HORIZONTAL SECTION

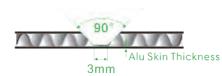


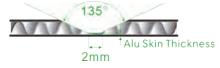
FORMABILITY

When aluminium lattice panel is under edge fold construction, it shall be grooving at edge fold section and it may open V-groove and U-groove, etc. according to edge fold requirement, several typical grooving ways. It shall make use of special grooving machinery for aluminium panel to ensure grooving depth is not damage the opposite aluminium material and it shall be left with 0.8 mm thick. It may adopt reinforcing measures as bordered rib, etc. as it is required at grooving section.

90°V-groove for folds up to 90°

135°V-groove for folds up to 135°









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Rectangular(U-) groove for folds up to 150° depending on panel thickness







