

NOCOBOND™



Alubright Industrial Co., Ltd

A2 (Non-combustible) fire retardant metal composite material

NOCOBOND™

CATALOGUE

01 / Company Profile

02 / Product Introduction

06 / Product Performance

08 / Defects of Common ACP

09 / Performance Comparison of Different core materials

10 / Authorized Certification and Quality Assurance

11 / Storage Arrangement

12 / Project Display



Company Profile

Alubright Industrial Co., Ltd, located in the high-tech district of Jiangyin city in Jiangsu province, is a company with new advanced technology. To face the challenge and catch the opportunity, Nocobond researched and developed automatic continuous production equipments independently for TWO-METER wide A2 non-combustible metal composite panel, which can reach the international advanced level. Our factory has a stable and scale production with annual capacity of 2 billion square meters.

Nocobond A2 non-combustible metal composite material have a distinguished advantage in fire-proofing performance, which can be classified into green cladding material as non-combustible, smokeless, non-toxic, smellless and safe. We are the first manufacturer in China who can produce TWO-METER wide A2 ACM and we approve the random on line tests GB8624-2012 A2 Grade noncombustible test and International EN13501 A2 Grade test. Look forward to cooperating with you to build win-win cooperation.

PRODUCT INTRODUCTION

A2 NONCOMBUSTIBLE ALUMINUM COMPOSITE MATERIAL

Nocobond A2 ACP is a new product composed of two layers of 0.5mm thick aluminum alloy panel and inorganic material (magnesium hydroxide and aluminium hydroxide etc.) The painting layer is PVDF coating made of over 70% PVDF resin and KYNAR500 (or HYLAR5000) with high performance and weather resistance. Compared with other coating methods, Nocobond adopts continuous liquid coating in roll technology to reach various colours and beautiful gloss.

Nocobond products approve the certificate of National Quality Inspection Center and approve the assessment of MHURC by professional institution including National Fire Protection Material Institution, National Building material Institution, National Building Project Institution etc. And Nocobond Products approve many A2 grade fire-proof certificates including INTERTEK, SGS, GOST, PSB, also European safety certificate CE. Nocobond A2 products are the upgrade and replace products for normal ACM. It can be widely used in transportation junction, like airports, high-speed rails, metros and national fire proof projects like ships, nuclear stations, water conservancy projects and public buildings like tunnels, factories, office buildings, commercial buildings, shopping malls, schools etc.

Finishing coat selection:

PVDF/FEVE/HDPE&PE coating

0.5mm aluminium sheet

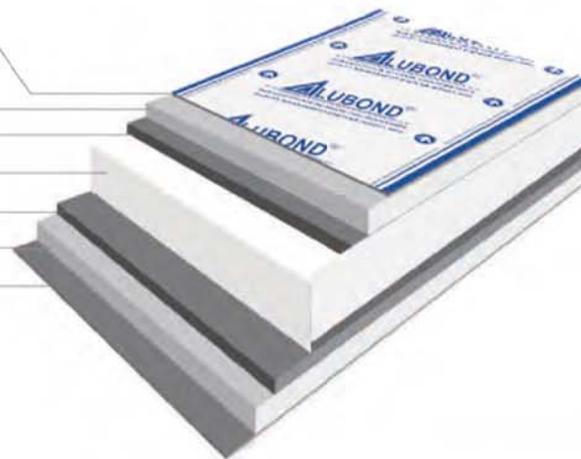
Polymer adhesive film

A2 core materials

Polymer adhesive film

0.5mm aluminium sheet

Primer coating



STANDARD SPECIFICATION

Nocobond A2 non-combustible aluminum composite material series as following:

Aluminium thickness: 0.30mm, 0.40mm, 0.50mm

Panel thickness: 3mm, 4mm, 5mm, 6mm

Width: 1220mm, 1250mm, 1500mm, 2000mm

(Special width can be provided by negotiation)

Length: 2440mm, 3200mm, or as customers' requirements





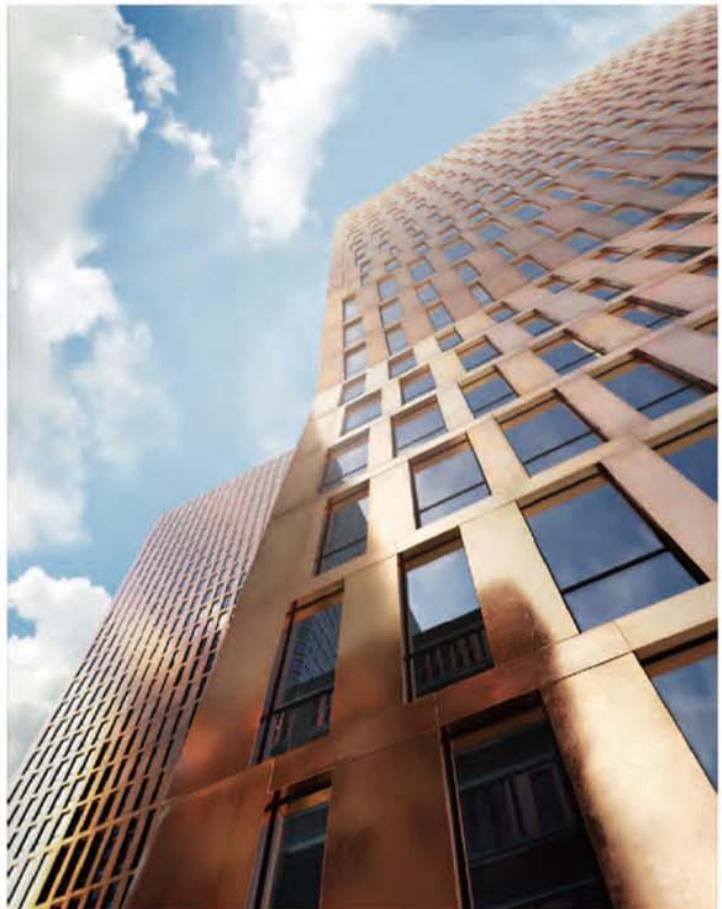
A2 GRADE NONCOMBUSTIBLE COPPER COMPOSITE PANEL

Using copper panel as the surface can bring strong bactericidal activity, excellent corrosion resistance and smooth surface for machine shaping. The natural colour of copper is beautiful enough to adorn. But with the special surface treatment into aerugo or bronze, it can be more elegant, gorgeous and shows antique beauty in the architecture.



STANDARD SPECIFICATION

Nocobond A2 non-combustible copper composite material series as following:
Copper thickness: 0.30mm to 0.60mm
Panel thickness: 3mm, 4mm, 5mm, 6mm
Width: max 1200mm
Length: 2440mm, 3200mm, or as customers' requirements





PRODUCT INTRODUCTION

A2 GRADE NONCOMBUSTIBLE STAINLESS STEEL COMPOSITE PANEL

Using stainless steel as the surface, which has strong corrosion resistance, and high surface hardness, good flatness, is the first choice for external wall of large buildings.



STANDARD SPECIFICATION

Nocobond A2 non-combustible stainless steel composite material series as following:

Stainless steel thickness: 0.30mm, 0.40mm, 0.50mm

Panel thickness: 3mm, 4mm, 5mm, 6mm

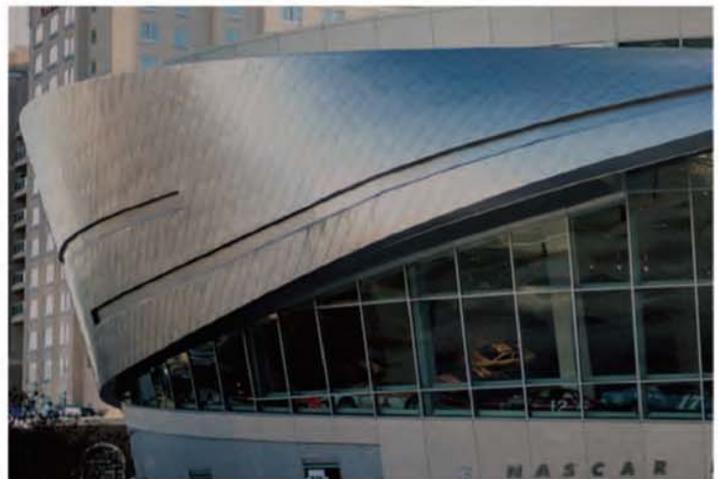
Width: max 1200mm

Length: 2440mm, 3200mm, or per customers' requirements



A2 GRADE NONCOMBUSTIBLE TITANIUM-ZINC COMPOSITE PANEL

Using titanium-zinc alloy as surface, which has strong metal texture, long life span and self-healing function, this panel applies to top grade architectures such as hotel, airport, office building, etc.



STANDARD SPECIFICATION

The standard product for Nocobond A2 Grade non-combustible titanium-zinc composite panel is as follows

Titanium thickness: 0.30mm, 0.40mm, 0.50mm

Panel thickness: 3mm, 4mm, 5mm, 6mm

Width: max 1200mm

Length: 2440mm, 3200mm, or as per customers' requirements

PRODUCT PERFORMANCES

A. Noncombustibility



The main components of Nocobond™ A2 Grade noncombustible composite material are magnesium hydroxide, aluminium hydroxide. They won't ignite, or help to combust, but will provide fire resistance effects. It has passed tests of GB8624, EN13501, GOST30244, and achieved international certificates such as SGS, INTERTEK, PSB, etc.

F. Sound Insulation



The sound insulation parameter of 4mm Nocobond™ A2 Grade noncombustible composite material is 25dB, with excellent sound insulation performance.

B. Environmental Protection



When fire starts, Nocobond™ A2 Grade noncombustible composite material does not produce radioactive hazardous elements, with characteristics of smokeless, non-toxic, odorless, etc.

G. Mould Proof



Nocobond™ A2 Grade noncombustible composite material has effects of insect prevention, anti-moth, mold prevention, etc.

C. Weather Resistance



The fluorocarbon coating of Nocobond™ A2 Grade noncombustible composite material uses 70% PVDF systems of the international famous brands, which can make sure the colour won't fade for 20~25 years.

H. Light Weight



The weight of the 4mm Nocobond™ A2 Grade noncombustible composite material is about 7.8KG/M², compared with other materials for the same application, it has characteristics of light weight and high quality performance.

D. Superior Performance



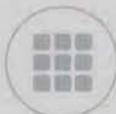
Nocobond™ A2 Grade noncombustible composite material conforms to high class products of GBT/17748 and International Standard. It has characteristics of light weight, stable I-shaped structure, and flatness without deformation.

I. Easy Construction



Nocobond™ A2 Grade noncombustible composite material can be pasted, cut, pinned, drilled, planed and cut at the construction site, and can easily achieve the hyperbolic curve shapes.

E. Variety of Choices



Nocobond™ A2 Grade noncombustible composite material not only has traditional aluminium surface, but also has many choices such as stainless steel, titanium-zinc, brass, wooded, stone, etc.

J. Simple maintenance

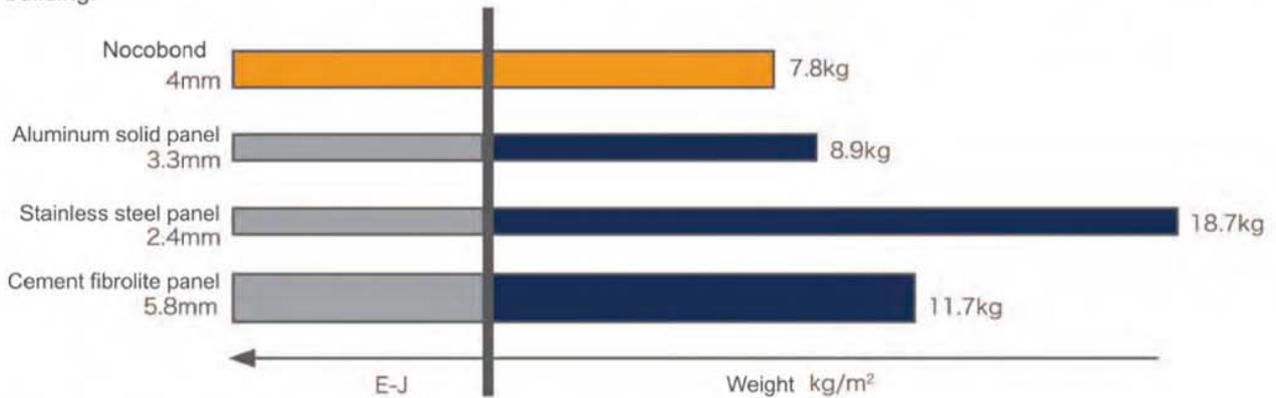


Nocobond™ A2 Grade noncombustible composite material only needs simple regular cleaning, with lower maintenance costs and longer service life.



STRUCTURE BEHAVIOR

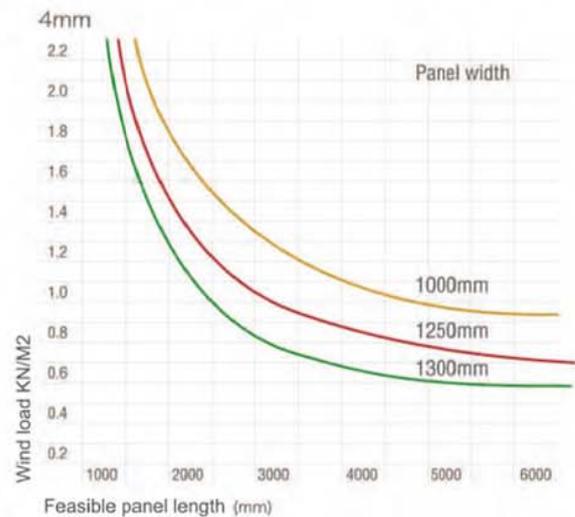
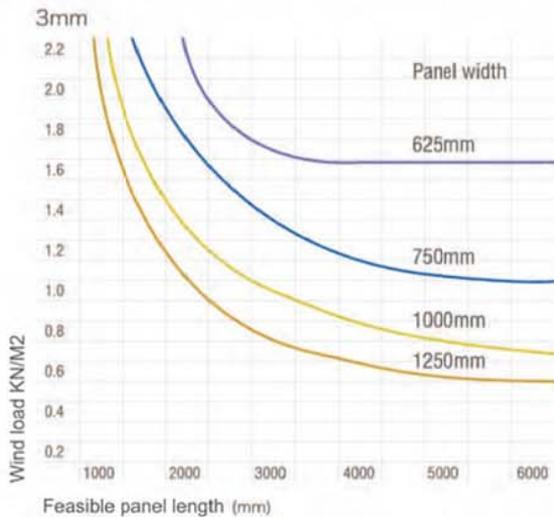
Nocobond have greater flatness and rigidity qualities and are lighter when compared to other similar cladding materials. The Flatness and Rigidity of the Panel Sheets eliminate the oil canning effect, which is common with solid aluminium and steel sheets. The lighter weight of our Panel Sheets, when compared to that of similar cladding materials, helps to reduce the Dead Load factor on buildings and the necessary structural support which reduces construction costs that together gives the architect more freedom with the design and aesthetics of the building.



Performance of wind load

Wind load and permissible panel sizes

The images for 3mm and 4mm thick Nocobond A2 indicate the maximum permissible panel length (without stiffeners) based on the applicable design wind load and panel width (permissible stress=51 N/mm²). The values apply to panels supported on four sides. Inquire for other systems' data.



DEFECTS OF COMMON ACM

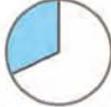
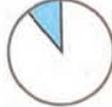
The core of common ACM (Aluminum-plastic composite panel) is made of LDPE. It belongs to combustible material, so it is easy to burn in the following situation like circuit aging or short out, electron and open fire. Once burn, the flame spread fast with large toxic smoke and droplets, which makes people smother and does great harm to safety and properties.



PERFORMANCE COMPARISON OF DIFFERENT CORE MATERIALS



Normal ACP (combustible) 20 seconds B grade ACP(generate flame) 15 minutes A2 grade non-combustible ACP(no influence) 30 minutes

Core	Common ACM	NOCOBOND FR	NOCOBOND A2
Approx. portion of combustible ingredients within the core material	100%	< 25%	< 4%
			
Heat Potential of the core material	>45 MJ/kg	<11 MJ/kg	<3 MJ/kg
Reference of Fire Classification	Euroclass C-D (EN 13501-01:2007)	Euroclass B PSB certificated Class 1 Index 0	Euroclass A2 (EN 13501-01:2009)
Bearing time	20 second	15 minutes	30 minutes
Bearing temprature	1500°C	1500°C	1500°C

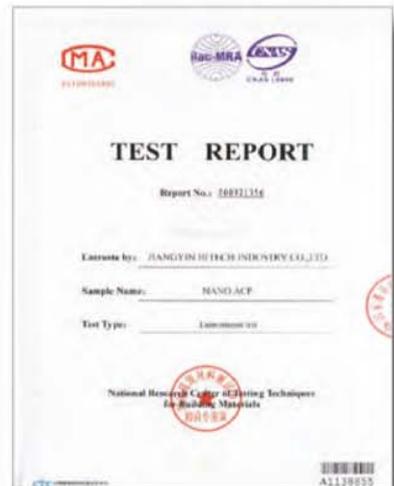


AUTHORIZED CERTIFICATION AND QUALITY ASSURANCE

Nocobond quality and technology standard is in line with international standard. We cooperate with world first-class brand from raw material to equipments.

For example, Nocobond use ABB siemens technology in automatic continuous producing equipment. Nocobond purchase bare aluminum coil from China's famous brand. Nocobond use American pretreatment technology. Nocobond use AKZO, PPG, BECKER as the appointed brand for coating.

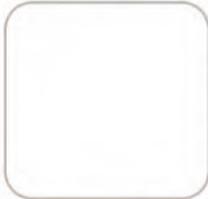
Nocobond promises that our products can approve the on line check randomly by both national and international authorities.



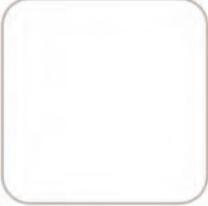
Storage Arrangement

1. Please check immediately if the goods are damaged or damp in transportation when you receive. If they get damp, open the packing cases immediately and dry with natural draft to avoid further corrosion, and contact with sales personnel at first time to implement following claims towards the insurance company.
2. Check the storage environment of the panels in stock in time, and do not piles up on the open air or in the leaking or wet warehouse.
3. The goods should be horizontally placed, do not place vertically. The height of the packing boxes should not be over four floors, and the heavier ones should be at the bottom.
4. When taking panels out of the boxes, four corners should be lifted up by at least two persons with gloves on, add more persons if it is a oversize panel. It can't be dragged horizontally, otherwise it may destroy the surface.
5. Please follow the stock control principle of "delivery from the first batch" to make sure all the inventory stay in warehouse no longer than 6 months. In case of special situation that you have to stay for over 6 months, please check the quality of protective film in time. If necessary, please contact Alubond immediately to check whether you need change protective film in case of glue malposition or other phenomenon.
6. Please remove the protective film as soon after being installed the wall. If exposed in UV for long time, the protective film will atomize and cause difficulty in tearing off. Nocobond guarantee the weather resistance of protective film for 6 months in common outside temprature.

Project Display



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