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ALPOLIC™ can be easily formed into YOU CAN any shape you want. It is exceptionally flat and our paint coating process

ARE IT guarantees the highest color quality.

EVERYWHERE





Let's Build

▲ MITSUBISHI CHEMICAL CORPORATION

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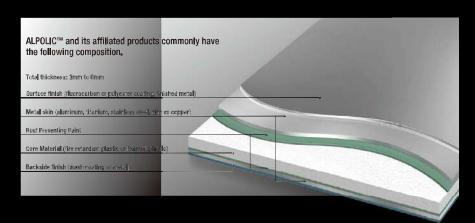
Let's Build

ALPOLIC[™] is Aluminum Composite Material (ACM) for the worldwide construction industry. It is not only a reasonable alternative to solid aluminum sheets, but also a material distinguished by its unique features. Its light weight, high rigidity, excellent flatness and long-lasting coating qualities are just what the construction industry has been booking for.





Composition of ALPOLIC®



Feature of ALPOLIC[™]

FLATNESS:

Excellent flatness derived from the continuous laminating process



COLOR UNIFORMITY:

The coil coating process ensures complete color consistency



RIGIDITY:

ALPOLIC" is rigid and lightweight



FIRE SAFETY:

With its non-combustible high mineral-filled core, ALPOLIC[™] A2 has been ranked up to class A2 which is one of highest fire-safety grades in accordance with European Norm (EN) standard.



WORKABILITY:

Easy to process with ordinary fabrication machines and tools



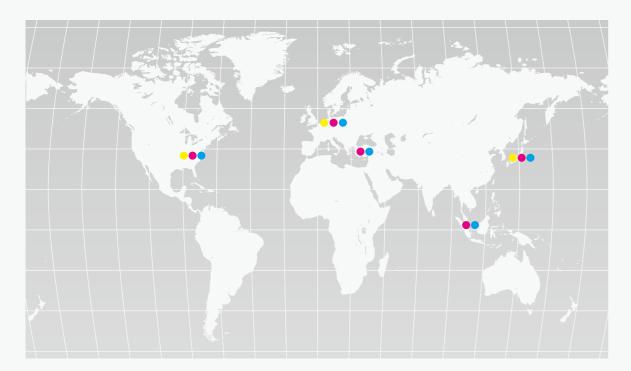
ECOLOGY:

Recyclable and environmentally friendly



Production

ALPOLIC™ is produced in Japan, the United States and Germany. In our production plants, we collect both aluminum, other metals and the core material for recycling by means of our original system, to keep an eco-friendly operation. Furthermore, our production plants are ISO 9001/14001 compliant, and also designated as wide district industrial waste disposal facilities. Therefore, we can take back scraps from customers for recycling in compliance with the proper operating standards.





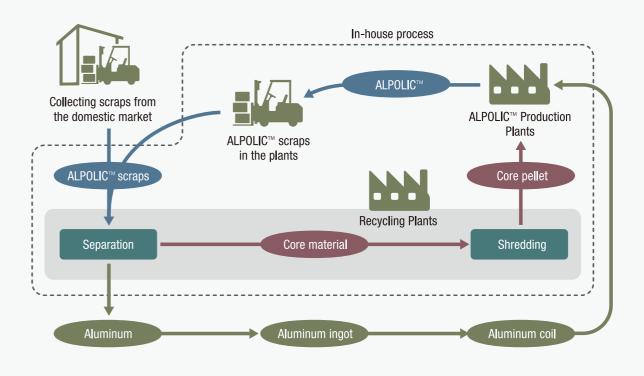
ALPOLIC™ VIRGINIA Plant, USA

- ALPOLIC™ production plants: Japan 2, USA 1, Germany 1
- ALPOLIC[™] Stock Points
 : Japan, Singapore, USA, Germany, Turkey
- ALPOLIC™ sales or branch offices
 : Japan, Singapore, USA, Germany, Turkey





Recycling process



Product lineup







ALPOLIC[™]/fr TCM

Titanium Composite Material / High corrosion resistance

P13



ALPOLIC*/fr SCM

Stainless Steel Composite Material / High rust resistance

P15



ALPOLIC*/fr CCM

Copper Composite Material / For richness and depth to any building's facade

P17



ALPOLIC*/fr ZCM

Zinc Composite Material / For elaborate designs

P18



ALPOLIC*/fr LT

Perfect for interior applications with a non-combustible mineral-filled core

P21



ALPOLIC™/fr RF

Second generation mirror finish ALPOLIC™

22

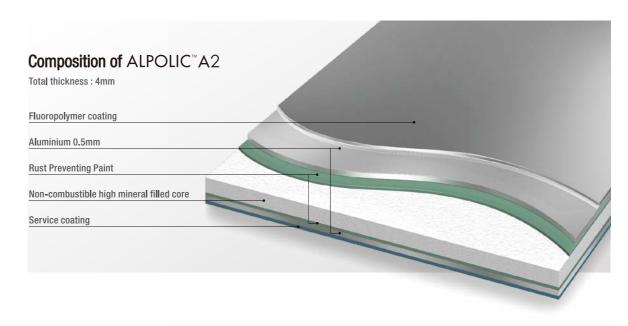


ALPOLIC[™] A2

ALPOLIC™A2 is an aluminum composite material (ACM) with a high fire-retardant core, used as exterior and interior claddings and roof coverings in new building and retrofit applications. ALPOLIC™ A2 has been classified as having a superior fire-safety grade to various other types of ACM.

90%

ALPOLIC™/A2 consists of approx. 90% of non-combustible ingredients within the core material.



DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
4mm	1270,1575mm	±0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)
0.5mm	1800-7200mm	Max 5.0mm

FIRE PERFORMANCE OF ACM SERIES

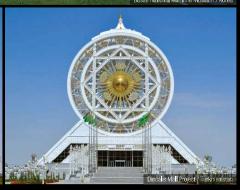
Core Material	ALPOLIC™ PE	ALPOLIC™/fr	ALPOLIC™A2
	100%	<30%	<10%
Approx. portion of combustible ingredients within the core material			
Heat Potential of the core material	> 45 MJ/kg	< 13 MJ/kg	< 3 MJ/kg
Reference Fire Classification	Euroclass C - D (EN 13501-01:2007)	Euroclass B (EN 13501-01:2007)	Euroclass A2 (EN 13501-01:2007)

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC™A2
	Thickness	-	-	4mmt
	Specific gravity	=	-	2.03
Physical properties	Weight	-	kg/m²	8.4
riiysicai properties	Thermal expansion	ASTM D696	×10 ⁻⁶ /°C	19
	Thermal conductivity	Calculated value	W/m-K	0.45
	Deflection temperature	ISO 75-2	°C	110
	Tensile strength	ASTM E8	MPa, N/mm²	43
Mechanical properties	0.2% proof stress	ASTM E8	MPa, N/mm²	41
of composite material	Elongation	ASTM E8	%	3.8
	Flexural elasticity, E	ASTM C393	GPa, kN/mm²	38.5
Sound Transmission Loss		ASTM E413	STC	27
Metal thickness with equi	valent rigidity	Calculated value		Aluminium 3.3mm







ALPOLIC™/fr

ALPOLICT*/fr is a fire-rated ACM composed of aluminum skins and a fire-retardant core (non-combustible mineral-filed core), it passes most countries' fire-safety codes for exteriors and interiors. Compared with solid aluminum panels, ALPOLICT*/fr is lightweight, rigid and flat. The surface finish is a coating of fluorocarbon paint. Die Coater that we use in the continuous coil coating line ensures uniform color and smooth coating. Coating variations includes the NaturArt Series (Stone, Timber, Metal, and Abstract), produced with a unique image-transfer coating.

 \bigcap_{0}

ALPOLIC™/fr consists of approx. 70% on non-combustible ingredients



DIMENSION (STANDARD)

Thickness (tolerance ± 0.2 mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
4mm	965, 1270, 1575mm	_0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4,0mm)	(Squareness tolerance)
0.5 mm	<7200mm	Max 5.0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr
	Thickness	-	-	4mmt
	Spec fic gravity	-	-	1.90
Dhysical properties	Weight	-	kg/m²	7.6
Physical properties	Thermal expansion	ASTM D696	×10°/°0	24
	Thermal concuctivity	Cajculated value	N/m-K	0.45
	Deflection temperature	ISC 75-2	°C	116
	Tensile strength	ASTM E8	MPa, N/mm ^e	49
Mechanical properties	0.2% proof stress	ASTM F8	MPa, N/mm²	44
of composite material	L l onga.ion	ASIM L8	%	5
-	Flexural elasticity, ∃	ASTM C393	GPa, kN/mm ⁻	39.8
Sound Transmission Loss		ASTM E413	STC	27
Metal thickness with equiv	ralent rigidity	Calculated value		Aluminium 3,3mm

Paint System

ALPOLIC[™] paint coating offers a variety of colors and patterns, and a wide range of gloss effects from 15% to 80%. With its 40+ years of experience, ALPOLIC[™] paint coating is recognized as the most durable and reliable paint coating system in the external cladding field.

and a ears of durable

[Principle]

ALPOLIC™ for external applications is regularly coated on its exposed surface side with a first-class fluorocarbon paint system. The standard coating warranty period is conditionally 20 years. In addition to the regular ISO quality management system, ALPOLIC™ quality control assures the deepest satisfaction to the customer seeking high-end products. We have confidence not only in the high grade of the paint itself, but also in color consistency throughout the production lots, ALPOLIC™ paint coating is usually evaluated with chamber tests such as accelerated weathering, salt spray, etc. It is also checked regularly by means of actual decades-long exposure in harsh coastal climates.







Natural exposure test in Japan & South Florida, USA

[Prêt-à-Porter]

Our standard and semi-standard colors covers most popular finishes used in many buildings over the world in recent decades. ALPOLIC™ standard colors have represented part of tradition in modern architectural buildings. ALPOLIC™ paint coating has proved its long- lasting durability and overwhelming presence throughout the history of external cladding applications.

[Haute Couture]

ALPOLIC[™] Paint Coating provides unlimited styles to the building designer. Tailor-made colors are our outstanding technology that highlight an architect's personality. We are ready to provide maximum service upon choosing among the widest range of colors, gloss, and patterns available and withstands to external cladding.

Fire Performance

The core material between the metal skins plays main role of the fire performance of composite materials. ALPOLIC fr and ALPOLIC A2 are exclusively designed in order to meet most of all the fire regulations over the world without any limitations to the building cladding applications. Without losing original properties of ALPOLIC, such as flatness, strength, durability, and easy processing etc, Mitsubishi Plastics pursues total balance of the panel at the same time it achieves the best performance on the fire safety.





	ALPOLIC™ PE	ALPOLIC™/fr	ALPOLIC™ A2
Thickness	4mm	4mm	4mm
Approx. portion of combustible ingredients within the core material	100%	< 30%	< 10%
Heat Potential of the core material	> 45 MJ/kg	< 13 MJ/kg	< 3 MJ/kg
Europe	BS 476 Part 6 (Class 0) BS 476 Part 7 (Class 1) DIN 4102 Part 1 (B2)	EN 13501-1 (B-s1-d0)	EN 13501-1 (A2-s1-d0)
USA	ASTM E84 (Passed class 1/A)	ASTM E84 (class 1/A) ASTM E108 ASTM E108 Modified UBC 26-9 & NFPA 285 ASTM E119 UBC 26-3 (Passed)	
Canada		CAN/ULC-S 134-92 (Passed)	
Russia		GOST (G1,B1,T1,D1,K0)	GOST (G1,B1,T1,D1,K0)
Japan		Passed. Certified as non-combustible material	

	Polyethylene	Aluminium Hydroxide
Chemical Reaction	(-CH ₂ -) + O ₂ → CO ₂ + H ₂ O	2AI(OH)3 → AI2O3 + 3H2O
Status	Heat Generation	Heat Absorption

	Melting Point
Titanium	1668°C
Stainless Steel	1424°C
Copper	1084°C
Aluminium	0°069
Zinc	420°C









ALPOLIC / fr TCM

ALPOUC"/fr TCM is a titanium composite panel composed of a 0.3 mm thick titanium sheet on the topside, a non-combustible mineral-filled core and 0.3 mm thickness stainless steel sheet on the backside. Titanium metal quickly forms a stable oxide film (called "passivated film") at room temperature and is known for its unparalleled corrosion resistance. ALPOUC"/fr TCM is suited to the external daddings and roof coverings of buildings located in highly corrosive environments.

Titanium, the top surface me skin of TCM, contains approx 99,5% of pure-litanium.



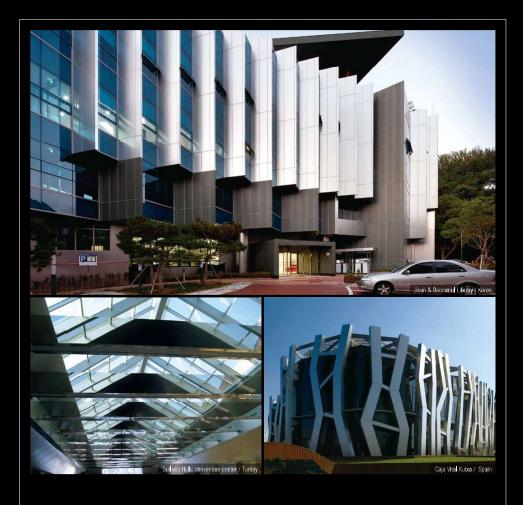
DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
4mm	1000 (1219mm is available upor request)	_0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)
0,3mm	<5000mm	Max 5:0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr TCM
	Th ckness	-	-	4mmt
	Spec fic gravity	-	-	2.33
Physical properties	Weight	-	kg/m²	9,3
Physical properties	herma l expansion	A\$IM D696	×10°/°0	10.4
	Thermal conductivity	Calculated value	W/m-K	0.4
Deflecti	Deflection temperature	ISC /5-2	°C	112
	Tensile strength	ASTM E8	MPa, N/mm²	69
Mechanical properties	0.2% proof stress	ASTM E8	MPa, N/mm²	60
of composite material	E l ongation	ASTM E8	%	11,1
	Flexural elasticity, ∃	ASTM C393	GPa, kN/mm ⁻	49.0
Sound Transmission Loss		ASTM E113	STC	25
Metal thickness with equiv	valent rigidity	Calculated value		Titanium 3.1mm

1.

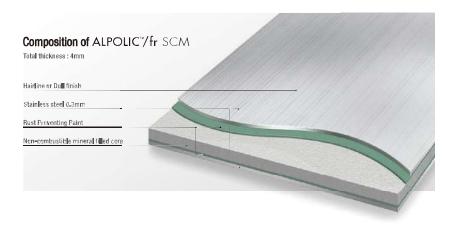


ALPOLIC / fr SCM

ALPOLIC"/fr SCM is a stainless steel composite panel composed of a non-combustible mineral-filled core and two sheets of 0,3 mm thick stainless steel. Both sides of the stainless steel are NSSC220M, a highly rust-resistant ferritic stainless steel, which has an outstanding rust resistance comparable to stainless steel 316, ALPOLIC"/fr SCM is suitable for the external claddings and roof coverings of buildings.

46%

4 mm thick ALPOLIC "/fr SCM is equivalent 2.9 mm thick solid stainless steel sheet in terms of bending rigidity but SCM is lighter about 46% of the solid stainless steel weig



DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
4mm	1000(1219nm is available upon request)	_0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4,0mm)	(Squareness tolerance)
0.3 mm	<5000mm	Max 5.0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr SCM
	Thickness	-	-	4mmt
	Spec flc gravity	-	-	2.55
Dhodadaaaaadaa	Weight	_	kg/m2	10.2
Physical properties	Thermal expansion	ASTM D096	×10°/°0	10.4
	Thermal concuctivity	Calculated value	W/m-K	0,4
	Deflection temperature	ISC 75 - 2	°C	117
	Tensile strength	ASTM E8	MPa N/mm2	84
Mechanical properties	0.2% proof stress	ASTM F8	MPa, N/mir 2	69
of composite material	L l onga.ion	ASIM L8	%	12,6
	Flexural elasticity, ∃	ASTM C393	GPa, kN/mm2	70.6
Sound Transmission Loss		ASTM E413	STC	30
Metal thickness with equiv	alent rigidity	Calculated value		Stainless steel 2,9mr

ALPOLIC**/fr CCM

ALPOUC"/fr CCM is a copper composite material composed of a copper sheet on the topside, a non-combustible mineral-filled core and a copper sheet on the backside. Like solid copper, ALPOLIC"/fr CCM is perfect for architectural wall cladding applications and accent trim on buildings



Features

The natural copper surface's ever-changing finish constantly evolves, adding richness and depth to any building's facade. ALPOLIC'/In CCM offers the nigidity of heavy gauge sheet metal in a lightweight copper-faced composite material. CCM also features such attributes as superior fatness, vibration dampening, durability and ease of maintenance

Composition of ALPOLIC*/fr CCM Total thickness: 4mm Mill finish Capper sheet 0.4mm Non-combustible mineral filled core

DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance, ±2.0mm)	(Bow tolerance)
4mm	965mm	±0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)
0.4mm	3708mm	Max 5.0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr SCM
	Thickness	-	-	4mmt
	Specific gravity	-	-	3,13
Physical properties	Weig-t	-	kg/m²	12.5
ritysical properties	Thermal expansion	ASTM D696	×10°/°C	17
	Thermal conductivity	Calculated value	W/m-K	0,42
	Deflection temperature	ISO /5-2	°Ç	140

ALPOLIC*/fr ZCM

ALPOUC"/fr ZCM is a zinc composite material composed of a chemically-weathered zinc sheet on the topside, a non-combustible mineral-filled core and a zinc sheet on the backside. ZCM is sufficient to extend applications such as soffits, awnings, parapets, rain screens, external claddings and roofs, especially when conventional building materials are insufficient.



Features

Zinc alloy skin: The topside skin is a real zinc, alloy weathered with a chemical conversion process, which later takes on a distinctive gray appearance through natural weathering.

Long life: Protected by the surface layers zinch alloy has a long life. The annual erosion rate is normally 1 to 7 indicions (3 micrors on average), which indicates that 100 micror (3 min hints on believe lake as long as 5 wars to a row.



DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
4mm	965mm	±0.5% of the length and/or width
The state of	1 0 0	4.6
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr ZCM
	Th ckness	-	-	4mmt
	Specific gravity	-	_	3,13
Physical properties	Weight	-	kg/m²	12.5
Physical properties	Thermal expansion	ASTM D696	×10*/10	28(P) / 20(T)
	Thermal concuctivity	Calculated value	///m - K	0.45
	Deflection temperature	ISC /5-2	°C	115

(P); parallel to the rolling direction (T); transverse to the rolling direction

Example of fixing methods

We are introducing typical examples of fixing methods below.

Refer to the ALPOLIC™ Technical Manual, "Section 3 Fabrication & Installation" for the details.

[External wall cladding - wet sealant joint]

This installation system, with tray type (rout and return) panels and sealing joints, is one of the most common methods and it is available for a wide range of new buildings and renovation projects. After fixing ALPOLIC™/fr panels on the substructure, we apply a suitable sealing material to the joints in order to ensure water-tightness.



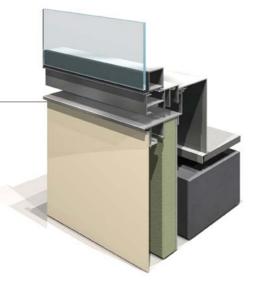
[External wall cladding - hanging method]

The hanging system is also one of the most common fixing methods. It simplifies the installation work at the construction site and hence we can shorten the installation period. It is easy to loosen the movement due to thermal expansion/contraction with this method, because panels are not tightly fastened to the sub-frame but are simply suspended.



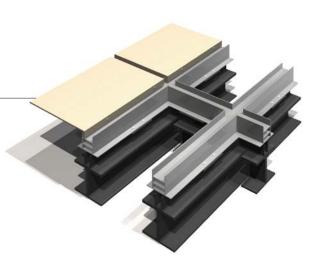
[Curtain wall]

A conventional unitized curtain wall style. ALPOLIC™ is installed on the spandrel part on a curtain wall panel and fixed on aluminum frames by structural silicone sealant, for an example.



[Roof Covering]

ALPOLIC™/fr has been used for roof covering in prestigious projects such as airports and stadiums. In roof applications, we install a water gutter or waterproof sheets behind ALPOLIC™/fr panels so that leaked water can drain outside.



[External wall cladding - hanging method 2]

The other hanging method is suspended by solid aluminum plates with a slot which is fixed on the returned panel edges. It enables to withstand medium to high wind load cases.



[Back panel of glass curtain wall]

Glass curtain walls sometimes need an opaque spandrel panel (back panel) behind glass for aesthetic and energy-saving purpose. The spandrel back panels behind the glass must be very durable especially to UV exposure, because it is hard to replace them after the building is completed. ALPOLIC $^{\text{TM}}$ /fr is the perfect material for such applications.



Data embodied herein is intended only for estimate by technically skilled persons, with any use thereof to be at their own discretion and risk.

Mitsubishi Plastics shall have no responsibility or liability for results from such use or infringement of any patent or other proprietary right.

ALPOLIC*/fr LT

ALPOLIC*/fr LT is exclusively designed for interior applications, such as partitions, interior valls, false cellings etc. It is a fire-rated and safe material, meeting the requirements of UBC 26-3 & ISO 9705 (Interior Room Corner Test) which is an acceptable fire rating in most countries. The main ingredient of the core material prevents the profileration of flame and restricts the development of smoke which is detiriental to evacuation activities.



Features

Easy installation: It can be easily installed on a rigid aubstrate using a soft set adheave and or doubte sided tope. Simple processing, it is easily tabricated and formed. Outling and drilling can be done on site. His performance: In Japan It has been certified as a non-confusible material (Certificate No. NIA-3415).

Composition of ALPOLIC"/fr LT Total thickness: 3mm Polyester coating Aluminium 0,3 mm Rust Preventing Paint Non-combustible mineral filled core Service coating

DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
3mm	1220mm (Hairline 914mm)	±0.5% of the length and/or width
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)
0,3mm	2440mm (Hair l ine 2438mm)	Max 5.0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr LT
	Thickness	-	-	3 mmt
	Speci ic gravity	-	-	1.83
Physical properties	Weig-t	-	kg/m²	5.5
r nysicai properues	Thermal expansion	ASTW D696	×10°/°C	24
	Thermal conductivity	Calculated value	W/m - K	0.3
	Deflection temperature	ISO /5-2	°G	110

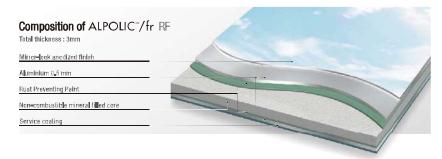
ALPOLIC[™]/fr RF

ALPOLICY/fr RF is a mirror-like reflective finish aluminum composite material (ACM) with a non-combustible mineral-filled core, used as a ceiling or interior wall applications.



Features

Shatter-proof and salidy; believe glass, aluminum composite material (ACM) will not shatter or break. Easy installation: It can be easy hinstalled on a rigid substrate using a soll set softweeve and or doubte sided tape. Simple processing it is easily exhibited and formed, Cutting and or filling can be done on eithe Fire performance: In Japan it has been certified as a non-combustile material (Certificate No. MM-3415).



DIMENSION (STANDARD)

Thickness (tolerance ±0.2mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)
3mm	1220mm	±0.5% of the length and/or width
Claire Abitaliana	Lough (Adams and Adms)	(0
Skin thickness	Length (tolerance; ±4.0mm)	(Squareness tolerance)

CHARACTERISTICS (FOR STANDARD DIMENSION)

		Method	Unit	ALPOLIC"/fr RF
	Th ckness	-	-	3mmt
	Specific gravity	-	-	2,00
Physical properties	Weight	-	kg/m²	6.0
Filysical properties	Thermal expansion	ASTM D696	×10*/10	25
	Reflectance	J I S D5705		83%
	Thermal conduct vity	Calculated value	W/m-K	0.5

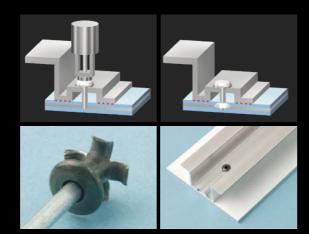
Hidden Rivet Ceiling System + ALPOLIC™

Mitsubishi Plastics provides ALPOLIC[™] sheets with a unique Hidden rivet ceiling system featuring superior flatness and consistent stretch from internal ceilings to external eaves through building entrances or walls. Fixing engineering is supported by Mitsubishi Plastics upon request to match the application and the design.

















Processing method

ALPOLIC™/fr and ALPOLIC™A2 (hereafter, ALPOLIC™) can be processed with regular machines and tools for aluminum and wood. We can cut ALPOLIC™ panels with a circular saw, fold them after grooving and curve them with a 3-roll bender. In order to join aluminum extrusions on ALPOLIC[™] panels, we can choose a suitable joining method from several alternatives.

CUTTING

ALPOLIC™ can be cut with various types of circular saws such as table saws, hand circular saws and panel saws. Also, we can use a square shear for cutting, which permits an efficient sizing work. To cut ALPOLIC™ in curving lines, we use hand routers or trimmers.

ALPOLIC™ can be folded after U-grooving in the backside. Two types of machines are available

for U-grooving. One is a circular cutter type and the other is a router type. The former includes hand grooving machines and panel saws, and the latter includes hand routers and CNC routers.





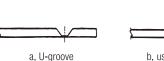


hand groove machine

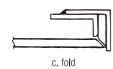
FOLDING

U-GROOVING

After U-grooving, ALPOLIC™ can be folded with a folding jig.



b. use a folding jig







BENDING WITH PRESSBRAKE AND 3-ROLLBENDER

ALPOLIC™ can be bent with a press brake. The bend-ability depends on the thickness and the core material. ALPOLIC™/fr has a larger bendable limit than ALPOLIC™ has. We can also use manual or electric-drive 3-roll benders for curving ALPOLIC™.









AUTOMATED MACHINES

In addition to the above conventional machines, we can use automated machines including panel saws and CNC routers for cutting and grooving. These machines enable efficient and precise work, especially suitable for repetition of analogous work.

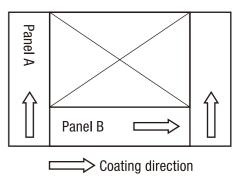
JOINING

We often use rivets, bolts/nuts and tapping screws for joining ALPOLIC™ and other materials like aluminum extrusions. In order to prevent from possible galvanic corrosion in a humid atmosphere, use blind rivets made of aluminum. Use screws and bolts/nuts made of aluminum or stainless steel.

General notes

Coating direction

In Metallic Colors, Sparkling Colors, Prismatic Colors and NaturArt Series (Stone, Timber, Metal, and Abstract), slight color differences will be noticeable if the panels are installed in different directions (like Panel A and B in the diagram). Install panels in the same direction as marked in the protective film. In our Solid Colors, any color difference due to coating direction is negligible.



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Protective film

The protective film on ALPOLIC™s mostly consists of two polyethylene layers of white and black. Do not peel off the protective film during fabrication and installation to protect the surface from scratching and soiling. Under normal weather conditions, the protective film will withstand 6 (six)-months of outdoor exposure without losing any of its original peel-off characteristics or causing stains or other damage. However, peel off the protective film as soon as possible after completion.

Gloss increase due to plasticizer

Do not stick, put or apply PVC tapes, polyurethane sealant or modified silicone sealant onto our protective film. The plasticizer contained in these materials can permeate the protective film and cause a gloss change in the coating.

Note:

The above precautions pertain to ALPOLIC™/fr and ALPOLIC™/fr. ALPOLIC™/fr. LT, and ALPOLIC™/fr. RF. have their respective precautions. Refer to the separate brochure of the respective products for details.

ISO 9001:2008 Certified

The production of ALPOLIC™s is ISO 9001:2008 compliant throughout the design, development, manufacture and sales.

ISO 14001:2004 Certified

ALPOLIC™s are produced in plants that have ISO14001:2004 certificate.