

ALPOLIC®/fr ZCM

ALPOLIC®/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 suited to exterior applications such as soffits, awnings, parapets, rain screens, external claddings and roofs, especially when conventional building materials are insufficient.



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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, zinc alloy has a long life. The annual erosion rate is normally 1 to 7 microns (3 microns on average), which indicates that 100 micron (0.1 mm) thick zinc takes as long as 35 years to erode.

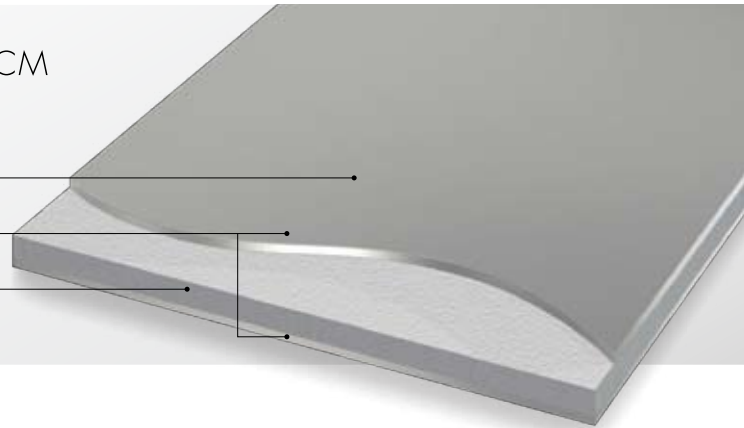
Composition of ALPOLIC®/fr ZCM

Total thickness : 4mm

Pre-weathered mill finish

Zinc sheet 0.5mm

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)
0.5mm	3708mm	Max 5.0mm

CHARACTERISTICS (FOR STANDARD DIMENSION)

	Method	Unit	ALPOLIC®/fr ZCM	
Physical properties	Thickness	–	4mmt	
	Specific gravity	–	3.13	
	Weight	–	12.5	
	Thermal expansion	ASTM D696	× 10 ⁻⁶ /°C	28(P) / 20(T)
	Thermal conductivity	Calculated value	W/m-K	0.45
	Deflection temperature	ISO 75-2	°C	115

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