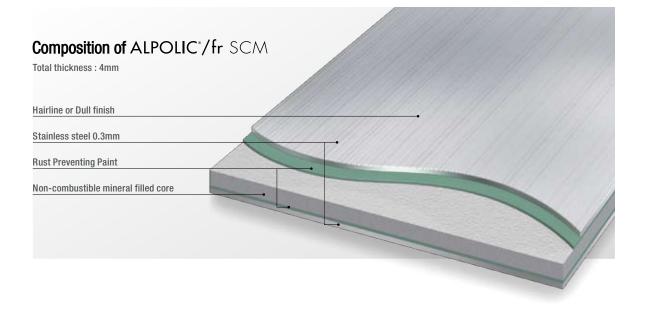


## ALPOLIC<sup>®</sup>/fr SCM

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.

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



## DIMENSION (STANDARD)

Thickness (tolerance $\pm 0.2$ mm)	Standard Width (tolerance; ±2.0mm)	(Bow tolerance)	
4mm	1000(1219mm is available upon request)	$\pm 0.5\%$ 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 <sup>®</sup> /fr SCM
Physical properties	Thickness	_	_	4mmt
	Specific gravity	_	_	2.55
	Weight	_	kg/m2	10.2
	Thermal expansion	ASTM D696	×10 <sup>.</sup> °℃	10.4
	Thermal conductivity	Calculated value	W/m-K	0.4
	Deflection temperature	ISO 75-2	°C	117
Mechanical properties of composite material	Tensile strength	ASTM E8	MPa, N/mm2	84
	0.2% proof stress	ASTM E8	MPa, N/mm2	69
	Elongation	ASTM E8	%	12.6
	Flexural elasticity, E	ASTM C393	GPa, kN/mm2	70.6
Sound Transmission Loss		ASTM E413	STC	30
Metal thickness with equivalent rigidity		Calculated value		Stainless steel 2.9mm