



ACM PANEL TECHNICAL SPECIFICATION

Panel Format, Fire Performance
& Coating Reference

Technical reference information for ACM material selection, specification review, and project coordination.

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CladStyle Inc. | Architectural Cladding Systems | Toronto / GTA / Ontario

ACM PANEL TECHNICAL SPECIFICATION

General Specifications of Canada Stock

This document provides general reference information for ACM panel format, material composition, coating system, fire performance references, and surface performance values.

Final specification must be confirmed against current supplier documentation, project requirements, applicable building codes, and consultant direction.

General Specifications

Standard Thickness	4mm
Standard Width	62"
Standard Length	196"
Aluminum Thickness	0.5mm each side
Core Thickness	3mm
Weight	7 kg/m ²
Fire Class	Class B1, A, A2*
Coating	PVDF System Kynar 500 & Hylar 5000
Warranty	15–30 years*
Colours / Finishes	Solid, Metallic, Textured, Stone, Woodgrain

*Fire classification and warranty coverage vary by selected product, core type, finish, coating system, supplier documentation, and project-specific requirements.



TECHNICAL & MECHANICAL SPECIFICATIONS

Technical reference values for ACM panel review and project coordination.

Technical & Mechanical Specifications

Deflection Temperature	105 °C
Flexural Rigidity	14.0 × 10 ³
Thermal Expansion	1.59 × 10 ⁻⁵ °C ⁻¹
Thermal Conductivity	0.102 kcal/m·hr·°C
Bending Strength	150 MPa
Shearing Resistance	28.6 MPa
Acoustic Insulation	25 dB
Bending Elastic Modulus	2.8 × 10 ⁴ MPa
Wind / Water / Air Permeability	Passed



Important Note

Technical values are provided for reference only. Actual performance may vary depending on panel manufacturer, selected product, core material, finish, attachment system, wall assembly, and project conditions.

FIRE PERFORMANCE

ACM panels must be incorporated into properly designed wall assemblies to meet project-specific fire code requirements, including CAN/ULC-S134 where applicable.

Fire performance depends on the selected ACM product, core type, tested assembly, installation condition, and applicable project requirements.

Fire Performance References

STANDARD	RESULT	CLASSIFICATION
BS 476 Part 7	Flame spread: 60 mm	Class 1
EN 13501-1	s1 low smoke / d0 no flaming droplets	A2 / B1*
ASTM E84	Flame spread index: 10 / Smoke developed index: 15	Class A
UL 94	No burn-up to holding clamp; no flaming particles or dripping	V0
AS/NZS 1530.3	Smoke developed index: 4	Pass

*Classification references must be verified against the selected ACM product, test report, wall assembly, and project-specific code requirements.



Fire performance classifications are provided for reference only. Compliance must be confirmed against the selected ACM product, official test report, wall assembly, installation method, and project-specific code requirements.

SURFACE & COATING PERFORMANCE

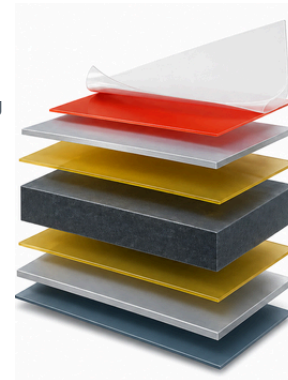
Surface and coating performance values are provided as a general reference for ACM finish review and project coordination.

Surface & Coating Performance

Finish Coating Thickness	30 ± 5 µm
Gloss Tolerance	4.3 / gloss 56.8
Pencil Hardness	3H
Toughness / T-Bend	2T, no rift
Impact Resistance	No depainting, no crack
Humidity Resistance	3000 hrs, no blister
Boiling Water Resistance	No change
Salt Spray Resistance	3000 hrs, no blister
Chemical Resistance	No change, acid / alkali
Colour Retention	ΔE < 5

TYPICAL ACM BUILD-UP

- Protective Film
- PVDF / Polyester Coating
- Aluminum Sheet
- Lamination Film
- FR / Mineral-Filled Core
- Lamination Film
- Aluminum Sheet
- Service Coating



Specification Disclaimer

Technical values, coating performance, fire classifications, warranty coverage, and finish availability are provided for reference only and must be confirmed against current supplier documentation, project specifications, applicable building codes, consultant direction, and project-specific wall assembly requirements.

Need Assistance?

For ACM specification review, material selection, technical documentation, or project-specific coordination support, please contact:

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