

# TUFF-CAST™ & TUFF WALL®



**Tuff-Cast™** and **Tuff Wall®** insulated metal panels have a factory applied, hard aggregated fiber reinforced polymer coating called Tuff Cote®. Tuff Cote® finish offers an extremely durable, impact-and abrasion-resistant coating that withstands severe weather conditions.

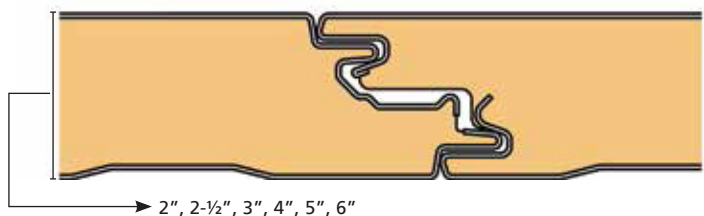
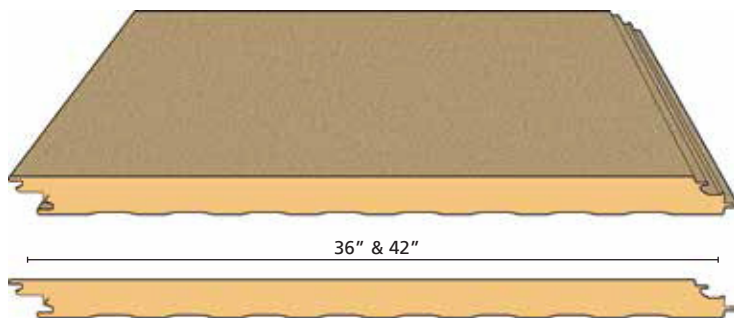
**Tuff-Cast™** is an exceptionally attractive insulated wall panel that provides the appearance of finished pre-cast concrete with a tilt-up look.

**Tuff Wall®** panels mimic a stucco-like finish that provides the masonry look that many designers and communities desire.

Unlike field-applied finished that are vulnerable to damp or cold weather during installation, Tuff-Cast™ and Tuff Wall® panels can be erected in virtually any weather conditions. The interior face of the panel is finished with an attractive Mesa profile and painted with a white polyester coating.

## FEATURES AND BENEFITS

- Panels combine the thermal efficiency of an insulated panel with the masonry look of stucco or finished pre-cast concrete walls.
- The stucco and pre-cast textures conform to the aesthetic demands required by many communities and business developments.
- The durable finish is highly resistant to impact and abrasion and maintains its attractive color for years.
- Field-tested and proven, the Tuff Cote® finish has a 10-year limited finish warranty.



## USES AND APPLICATIONS

In new and retrofit construction, Tuff-Cast™ and Tuff Cote® panels function as walls for all types of architectural, commercial and industrial applications.

They are ideally suited for:

### ARCHITECTURAL

- Airport Terminal Buildings
- Arenas
- Convention Centers
- Hospitals
- Low and Mid-Rise Offices
- Mid-Rise Office Spandrel Panels
- Performing Arts Centers
- Schools & Universities
- Worship Facilities

### COMMERCIAL & INDUSTRIAL

- Distribution Centers
- Equipment Maintenance Buildings
- Hangars
- Manufacturing Facilities
- Retail Buildings
- Self-Storage Complexes
- Utility Buildings
- Warehouses

### COLD STORAGE

- Not intended for cold storage buildings

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MATERIAL SPECIFICATIONS				
EXTERIOR PROFILE	Tuff Cote® finish system – a hard aggregated fiber reinforced polymer coating. Flat profile on 2", 2 1/2", 3" & 4" panels; Mesa profile on 5" & 6" panels.			
INTERIOR PROFILE	Mesa Wave Pattern, 1/8" deep; Light Mesa, 1/16" deep - Light Mesa not available for the 5" and 6" thick panels.			
FOAM CORE	Foamed-in-place, Non-CFC & zero ODP polyurethane, Factory Mutual Class 1 approval.			
THERMAL VALUE	R VALUE WITH AIR FILM		75° Mean	40° Mean
		2" PANEL	15.14	17.03
		2-1/2" PANEL	18.71	21.29
		3" PANEL	22.27	25.55
		4" PANEL	29.42	34.06
		5" PANEL	36.56	42.58
		6" PANEL	43.71	51.09
	1. R-Values include the air films on each side of the panel 2. 75° Mean based on ASTM C518 Thermal Testing. 40° Mean based on ASTM C1363 Thermal Testing (Values for C1363 based on 4" panel testing). All values for other thicknesses extrapolated			
MODULE WIDTH	36" & 42"			
PANEL THICKNESS	2", 2-1/2", 3", 4", 5" & 6"			
PANEL LENGTHS	Standard 8'-0" to 40'-0"			
HORIZONTAL APPLICATION REVEAL WIDTHS	1/4", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"			
EXTERIOR FACINGS	Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 24 Ga. and 22 Ga. with factory applied Tuff Cote® finish system.			
INTERIOR FACINGS	Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga., 24 Ga. and 22 Ga. Type 304 stainless steel in 26 Ga. embossed and unpainted.			
EXTERIOR FINISHES & COLORS	Tuff Cote® finish system is available in several colors. See color chart.			
INTERIOR FINISHES & COLORS	USDA-compliant Polyester, Igloo White. USDA-compliant PVC Plastisol White.			
PANEL JOINT	Offset double tongue-and-groove with extended metal shelf for positive face fastening.			
FASTENING	Fastener & Clip concealed in the side joint.			
FM Approved Class 1 with no height restrictions.				

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TESTS AND CERTIFICATIONS			
		Standard	Standard / Test Description
US Certifications	Fire Performance	FM Approval Standard 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels
		NFPA 259	Test Method for Potential Heat of Building Materials
		NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies
		NFPA 286	Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth
		ASTM E84	Surface Burning Characteristics of Building Material
	Structural Performance	FM Approval Standard 4881	Class 1 Exterior Wall Structural Performance
		ASTM E72	Strength Tests of Panels for Building Construction
		ASTM E330	Structural Performance of Exterior Curtain Walls by Uniform Static Air Pressure Differences
	Vapor Barrier Performance	ASTM E283	Rate of Air Leakage Through Curtain Walls Under Specified Pressure Differences
		ASTM E331	Water Penetration of Exterior Walls by Uniform Static Air Pressure Differences
	Thermal Performance	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
		ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
	Special Approvals	City of Los Angeles	Product Approval for City/County of Los Angeles
		Miami-Dade Wall	Miami-Dade County Product Control Approved (Note: WACC Vertical Installation Only) NOA No. 13-0212.06, Expiration Date: 03/06/2018
Canadian Certifications	Fire Performance	CAN/ULC S101	Fire Endurance Tests of Building Construction and Materials
		CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies
		CAN/ULC S134	Fire Test of Exterior Wall Assemblies
		CAN/ULC S138	Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration

Load span tables and notes are available at RobertsonBuildings.com



Corporate Office | 1343 Sandhill Dr., Ancaster, ON L9G 4V5  
| 800-387-5335, 905-304-1111, f 905-304-2420

Western Office | 11318-163 St. NW, Edmonton, AB T5M 1Y6  
| 780-485-3055, f 780-461-7785

RobertsonBuildings.com

ROB-TUFF-1014