

# **THERMASPAN™**

by

## **SpandrelTech Ltd.**

**CUSTOM LAMINATED INSULATED WALL PANELS**



**SPECIALIZING IN ARCHITECTURAL PRODUCTS  
FOR THE BUILDING INDUSTRY  
SINCE 1991**

*Featuring Structured Incremental Shipping™  
Catering to the Needs of our Customers*

# THERMASPAN™ CUSTOM LAMINATED INSULATED WALL PANELS...

## DESCRIPTION

SpandrelTech Ltd. insulated wall panels are available from 25.4 mm (1") up to 125 mm (5") thickness in a variety of substrates, cores and finishes and may consist of:

1. Outside skins - available in a variety of metals and colours, including aluminum (painted or anodized), or painted steel.
2. Inside skins - as above, including corkboard, vinyl, or wall board (for painting).
3. Core materials - available in expanded, or extruded polystyrene insulation, rigid polyisocyanurate insulation, and Douglas fir marine grade plywood.

Panels are typically designed for use with a wide selection of aluminum glazing systems.

## Dimensional Criteria

Width - 1525 mm (60")

Length - 3050 mm (120")

Thickness - From 25.4 mm (1") to 125 mm (5")

## Finishes

1. Standard porcelain-embossed aluminum (custom colour matching available).
2. Colorlume E polyester baked enamel-embossed aluminum.
3. Colorlume S polyester baked enamel on smooth aluminum.
4. Porcelain on smooth steel.
5. PPG / Valspar / Kynar 500.

## Structured Incremental Shipping™

If required, panels may be delivered on a floor-by-floor or elevation-by-elevation basis for installation convenience.

## USE

### Architectural Panels

1. Building retrofit (for a new look)
2. Curtain wall or exterior wall cladding
3. Spandrel (building accent)
4. Window replacement (thermal upgrading)
5. Prefabricated buildings (security, parking, kiosks, etc.)
6. Interior partitions
7. Storefronts or vestibule enclosures

### Glazing

1. In-fill panels (combination glass and panel appearance)
2. Window replacement (closing off unwanted glass openings)

### School

3. Interior cork board for tack surfaces



Thermaspan™ used for infill panels in this retrofit panel application and to provide decorative accent. W.E. Gowling Public School, Ottawa, Ontario. Ottawa Carleton District School Board.

## STANDARDS CONFORMANCE

### Aluminum

1. CGSB 93-GP-IM, Type 2, Class F1S Sheet Aluminum.
2. AA DAF 45-97, Designation System for Aluminum Finishes.
3. AAMA #605 "Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels" - 2004.
4. ASTM E330-84, D1781-76, DE3363-74, D2794-90, D3359-90 (See 3-Part Specification).

Porcelain - to ALS-105 Standard Specification for Porcelain Enamel on Aluminum (Porcelain Enamel Institute, Aluminum Division).

Hardboard - to CG5B 93-GP-3M

Gypsum Wallboard - to CSA A82-27M

Expanded Polystyrene Insulation - to CGSB-GP-20M, Type 2

Extruded Polystyrene Insulation - to ASTM C 578 - 06

Rigid Fiberglass Insulation - to CAN4-S114-M

Rigid Polyisocyanurate Insulation - to CGSB 51-GP-21M, Type 4

Fibre Reinforced Plastic (FRP) Finishes - to CGSB 41-GP-6M

Plywood - to CSA 0121-M

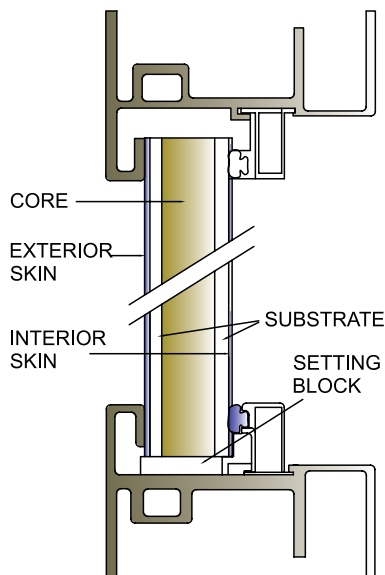


# For Architectural, School and Glazing Applications

SKINS	THICKNESS	TEXTURE		STANDARD COLOURS	CUSTOM COLOURS	AVAILABLE WIDTHS	
		EMBOSSSED	SMOOTH			48"	60"
Porcelain on Aluminum	0.016	●		24	●	●	●
Porcelain on Steel	0.014		●	8	●	●	●
Standard Duranar (Kynar)	0.032 -0.125	●	●	18		●	
Custom Duranar (Kynar)	0.032 -0.125	●	●		●	●	●
Clear Anodized (Coil)	0.032 -0.125		●	1		●	● (0.125)
Bronze Anodized (Coil)	0.032 -0.125		●	1		●	● (0.125)
Class 1, 2, or 3 Clear Anodized	0.032 -0.125		●		●	●	● (0.125)
<b>SUBSTRATES</b>							
3 mm (1/8") Hardboard	0.125		Most Economical			●	●
6 mm (1/4") Hardboard	0.25		Most Economical			●	●
12 mm (1/2") Hardboard	0.5		Fire Resistant			●	
<b>CORES</b>							
Polystyrene	most cost effective per R-Value (4.74-20.31 R-Value)						
Isocyanurate	most insulation per inch (6.41-27.79 R-Value)						
Douglas Fir	marine grade recommended						

## INSTALLATION

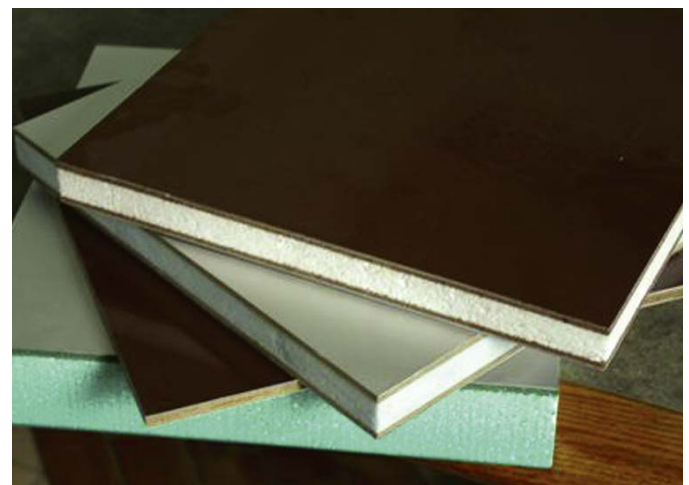
1. Install panels in extruded moldings or extruded aluminum framing.
2. Glaze panels onto flexible setting blocks to provide 6 mm (1/4") expansion space around perimeter of panel to allow for thermal movement.
3. Seal panels against water penetration by means of permanently elastic caulking sealant.
4. Provide weep holes for drainage.
5. Avoid use of mechanical fasteners such as nails, screws, or bolts which may obstruct/limit the normal thermal movement of panel skin.
6. Install panels according to manufacturer's current instructions to ensure optimum service life.



**TYPICAL PANEL SECTION**

## Building Codes:

Thermaspan™ insulated panels conform to building codes.



Thermaspan™ insulated wall panel samples.

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## AVAILABILITY AND COST

### Availability:

Distributed across Canada and throughout U.S.

### Costs:

Contact SpandrelTech Ltd.

## WARRANTY

One year limited warranty against faulty materials, fabrication or workmanship. Extended warranties available. Contact SpandrelTech Ltd. for requirements.

## MAINTENANCE

It is recommended panels be cleaned at least once a year using a sponge and a soft alkali-free detergent in water. Refer to appropriate cleaning and maintenance guide, available from SpandrelTech Ltd. for more detailed information.

## TECHNICAL SERVICES

1. Preliminary consultation on installation and application.
2. Assistance with shop drawings and expediting projects to successful completion.
3. Technical advice and suggestions for retrofit projects.
4. Accurate estimating for ease of determining final pricing.
5. Consultation with project co-ordinators and site assistance on jobs in progress.

## OTHER SPANDRELTECH PRODUCTS

SpandrelTech Ltd. also manufactures and/or provides the following:

1. Alumaspan™ Aluminum wall panels
2. Galvaspan™ Metal curtain wall back pans
3. Formaspan™ Metal Column covers
4. Porcelain enamel wall panels
5. Steel or aluminum brake shapes, corners and other unique fabricating services
6. Adjustable Z-girts, galvanized or aluminum.

## SPECIFICATION (Short Form)

*Spec Note: See long form 3-Part specification at end of Thermaspan™ Custom Laminated Insulated Wall Panels section of manual.*

[Insulated] panels: "Thermaspan" panels consisting of metal skins laminated to stabilizer substrates [with an insulating core material], [75 mm (3") overall thickness], [ ] finish as shown on the drawings. Manufactured by SpandrelTech Ltd., 16 Erin Park Drive, Erin, Ontario N0B 1T0; Tel: (519) 833-9684 or 1-888-833-9684; Fax: (519) 833-0845; Email sales@spandreltech.com; Web: www.spandreltech.com

## COMPANY HISTORY

1. Celebrating its 15th anniversary in 2006, SpandrelTech Ltd. continues to thrive and build on its strong reputation for successfully completing innovative curtainwall projects nationwide, and developing extensive relationships with window and siding companies and construction professionals both in Canada and the United States of America.
2. A milestone was marked in 2002 as SpandrelTech Ltd. moved into its new state-of-the-art facility in Erin, Ontario. With the implementation of new CNC equipment throughout the plant, a committed management team, and new, innovative panel design techniques, SpandrelTech Ltd. is changing the face of the urban landscape and remains the proven choice of window and siding companies, architects, and building engineers alike.
3. Complex and unique engineering challenges, complete interior and exterior paneling solutions and Structured Incremental Shipping™ are only a few of the innovative services and products that set SpandrelTech Ltd. apart.



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