



Imperial White Cooler/Freezer Panels

A premium engineered wall/ceiling system for interior applications. Specially designed to meet today's high performance standards in a wide variety of environments. Features a NON CFC polyurethane insulating core.





APPLICATIONS:

KINGSPAN T-2000 SERIES panels are ideal for interior walls and ceilings in cold storage buildings, food and meat processing plants, critical temperature and controlled environment facilities as well as in medical or pharmaceutical areas. Industrial applications include warehouses, manufacturing plants, service and utility buildings. The superior engineered joint assures a tight, well designed vapor barrier in enclosures of any size.

CONSTRUCTION:

KINGSPAN T-2000 SERIES panels are constructed with a non-CFC thermosetting polyurethane insulation that meets US and Canadian building code requirements. Structural grade steel facings are precisely roll formed and foam insulation is expanded between the metal sheets in a state-of-the-art continuous line production sequence that is fully computerized to ensure optimum quality and consistency in every panel.

INSULATION:

KINGSPAN T-2000 SERIES panels with foamed polyurethane insulation are offered in thicknesses of 2 3/4", 4" & 5" providing insulation values of R-21 to R-39.



FACINGS:

KINGSPAN T-2000 SERIES panels have standard 26 gauge facings of stucco embossed galvanized steel to ASTM A653 G-90 designation. Base steel shall be structural quality to minimum Grade "A" 33 ksi, conforming to ASTM A924. Consult factory for optional panel facings of galvalume or stainless steel in various gauges.

COATING SYSTEMS:

Standard KINGSPAN T-2000 SERIES panel finishes are imperial white SMP - Silicone modified polyester CFIA and USDA approved with a total dry film thickness of 1.0 Mil including 0.2 Mil primer.

Optional finishes include Kynar PVF2; plastisol and polyester coatings in a range of stock and special order colors.

PANEL DESIGN

KINGSPAN T-2000 SERIES panels utilize a superior joint design providing concealed fastener anchorage affording connection of both metal skins to the building structure, double caulk seal provision and excellent air infiltration and water penetration test results.

Panels are produced in the attractive "SHADOWLINE" stucco embossed or smooth profile on both the exterior and interior face. Panel coverage is available in standard 45 3/8" width.

PERFORMANCE REQUIREMENTS:

FIRE:

Meets special requirements of US and Canadian model building codes and is listed and approved by the following authorities.

- ULI Underwriters Laboratories Inc.
- FM Factory Mutual
- WH Warnock Hersey
- ULC Underwriters Laboratories Canada

NYC MEA report

FM-4880 Meet approval standard for wall and ceiling Class 1 with no height restriction

ASTM-E84 Flame Spread - 20; smoke developed 350 for foam core

ULC 5102 Flame Spread 20; smoke developed 350 for foam core

ULC 5101 Passed Fire Endurance Tests without fastening joint seams

ULC/ORD-C376-1995, Fire growth of foamed plastic insulated building panels in a full scale room configuration

CAN/ULC S134-92, Standard method of fire test of exterior wall assemblies

CAN/ULC S126-M86, Standard method of test for fire spread under roof deck assemblies

UBC 26-4 Passed Multi-story test with standard panels

THERMAL TRANSMISSION:

ASTM C-518 - see individual panel tests

ASTM C-236 - see individual panel tests

VAPOR BARRIER:

ASTM E283 Air infiltration - see product specifications

ASTM E331 Water penetration - see product specifications

STRUCTURAL:

ASTM E72 Vacuum chamber tested for wind and suction load deflections on wall assemblies.

FATIGUE TESTS:

Standard panels were tested by independent laboratories for long term deflection failure. The panels exceeded 2 million alternate cycles without failure or damage.

BOND STRENGTH:

ASTM 1623 Panel was tested for tensile bond strength of the metal to foam interface to 24 psi.

ALLOWABLE UNIFORM LOADS [PSF] FOR MULTIPLE SPAN CONDITION

LOADING TABLE	SKIN GA.	THICKNESS [INCH]	SPAN [FEET]															
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	DEFL. Δ	26/26 GA.	2 3/4"	96.3	77.0	63.1	52.7	44.5	37.9	32.6	28.2	24.6	21.5	18.9	16.8	14.9		
		4"	121.9	98.8	82.2	69.6	59.8	51.9	45.4	40.0	35.5	31.6	28.2	25.2	22.5	19.8	17.9	15.9
	L/180	5"	171.7	139.1	116.7	100.4	86.2	74.0	65.4	57.2	51.0	44.6	40.5	36.2	32.6	30.0	26.7	24.5

Allowable loads shown above are for a positive wind loads with deflection limit to L/180. Consult factory for maximum allowable negative wind loads and panel fastening pattern. Thermal loads have not been considered

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25% Post Consumer

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