



MANUFACTURER OF STRUCTURAL INSULATED PANELS (SIPs)

Save Time!

- Quicker Building Erections
- Eliminate most onsite Framing
- Reduce Weather Delays
- Save on Electrical Rough-in
- Eliminate Inefficient onsite Insulation Installation

Save Money!

- Less Jobsite Waste
- Less Time from Loan to Close
- Less Jobsite Labor & Overhead
- Lower Utility Bills
- Lifetime Warranty

Save Energy!

- Reduce Heating & Cooling Loads
- Eliminate Air Infiltration
- Eliminate Convective Heat Loss
- R-28 with 4.5" Walls or Roofs
- R-42 with 6.5" Walls or Roofs

Polyurethane Structural Insulated Panels — The Better Way to Build



This modular classroom in North Carolina was built in 10 days from the start of construction to the start of class.

FACTS ABOUT THE ICS PATENTED SYSTEM

Embedded steel cam-locks allow for a quick, easy, and secure (40,000 pound rating) installation. Steel-reinforced tongue-&-groove panel joints create rigid and airtight connections between panels.

ICS SIPs are up to 7 times stronger than standard "2x" frame construction.

Patented one-piece corners eliminate thermal-bridging in a traditional problem area.

ICS SIPs form an extremely energy-efficient building envelope.



FACTS ABOUT THE ICS POLYURETHANE FOAM CORE

Saves energy and reduces pollution by reducing heating/cooling loads

Saves trees with lower lumber requirements

No formaldehyde or VOCs

Uses agricultural-based materials

Helps prevent mold and mildew

Blocks airborne pollutants

No asbestos, glass, or cellulose fibers

ASTM Class 1 Fire Resistance Rating

FEMA Class 4 Flood Resistant Material

Winner of the EPA 2004 Stratospheric Ozone & Climate Protection Award

[Photo shows cam-wrench, cam-locks, tongue-&-groove panel connection system with metal splines, polyurethane foam core, and OSB substrates.]



"This is not your typical garage. From the unique sawtooth extension design to the brilliant daylight interior, this is an impressive facility – and it saves money, too. Even more important though, the people using it, like it."

-Ron Kechter,

Facilities Project Manager

The City of Fort Collins' Municipal Vehicle Storage Building achieved Leadership in Energy and Environmental Design (LEED) Silver Certification. The use of ICS SIPs helped achieve this rating.

CURRENT TESTS	TEST STANDARD	RESULTS
FOAM		
Compressive Strength & Modulus	ASTM D-1624-00	Strength 35 psi
Compressive Strength & Modulus	ASTM D-1624-00	Modulus 790 psi
Density	ASTM D-1622-98	2.5 pcf
Dimensional Stability	ASTM D-2126-99	Excellent
Flammability - Smoke Generation	ASTM E-84-01	<400
Flammability - Flame Spread	ASTM E-84-01	<25
Foam Core Fire Rating		*** Integrity CLASS 1
Linear Coefficient of Thermal Expansion	ASTM D-696-98	-40°F to +240°F
Closed Cell Content by Air Pycnometer	ASTM D-2856-87	>96%
Shear Strength and Modulus	ASTM C-273-61 (1988)	Strength 26 psi
Shear Strength and Modulus	ASTM C-273-61 (1988)	Modulus 325 psi
Resistance to Solvent	ASTM D-543-95 (2001)	Excellent
Resistance to Mold/Mildew	ASTM D-543-95 (2001)	Excellent
Thermal Conductivity	ASTM C-518-91	K-factor 0.14(Btu-in/ft ² hr-°F)
Thermal Conductivity	ASTM C-518-91	R-Value 7.25 per inch
Tensile Strength and Modulus	ASTM D-1623-78 (1995)	Strength 16 psi
Tensile Strength and Modulus	ASTM D-1623-78 (1995)	Modulus 325 psi
Water Absorption	ASTM D-2842-01	2.40%
Vapor Permeability	ASTM D-2842-01	2 perm/in

*** Polurethane foam is a "thermo-set" plastic. Melting does NOT occur.

CURRENT TESTS	TEST STANDARD	RESULTS
Structural Panel***		
Compression	ASTM E-72-98 section 9	Surfaces Max load (Avg)
Transverse	ASTM E-72-98 section 11	*OSB/OSB 50624
Racking	ASTM E-72-98 section 14	*OSB/OSB 6734
		*OSB/OSB 4897
Compression	ASTM E-72-98 section 9	**GALV/GALV 13366
Transverse	ASTM E-72-98 section 11	**GALV/GALV 4900
Racking	ASTM E-72-98 section 14	**GALV/GALV 6723



CALL US TO SCHEDULE A VISIT TO OUR FACILITY!



INSULATED COMPONENT STRUCTURES - ROCKY MOUNTAIN, Inc. (ICS-RM)

5858 WRIGHT DRIVE, LOVELAND, COLORADO 80538-8806 U.S.A.
 PHONE: [1] (970) ICS-SIPS · FAX: [1] (303) 484-4892 · www.ICS-RM.com
 E-MAIL: BRIAN@ICS-RM.COM OR ROGER@ICS-RM.COM