



INSULATED PANELS

See the difference in appearance, value, performance and installation



Add aesthetic value and improve energy efficiency with attractive, affordable and easy-to-install insulated panels from **KIRBY BUILDING SYSTEMS**. When it comes to building, quality, affordability and ease are essential. But so is attractiveness. And now, with handsome, lightweight and energy efficient insulated wall panels, you can easily meet your customers' needs for durable, easy-to-build, efficient and attractive structures.

THE ULTIMATE COMBINATION OF BRAINS & BEAUTY

Our insulated panels embody attractive styling and cutting-edge energy efficiency. Designed with the latest scientific breakthroughs, our panels are lightweight, durable and still maintain their ease of installation and visual appeal. Now is the best time to build with Kirby insulated panels because the benefits have never been greater.

ATTRACTIVE & LIGHTWEIGHT

One of the most sophisticated building products on the market today, insulated panels offer a clean, consistent and high-quality appearance that immediately adds value to any building. Insulated panels enhance the visual appearance of your buildings, and their remarkable light weight reduces structural requirements and installation costs.

STURDY & DURABLE

The panels incorporate into a single building unit: a finished interior liner, available factory-applied air and vapor shield, and insulated foam core-finished exterior weathering surface. The composite action resulting from a chemical bond between the poured-in-place foam core and steel skins creates a lightweight, rigid unit with exceptional spanning capacity.

EASY TO INSTALL & AFFORDABLE

Lightweight and simplified fastening systems deliver quick installation and reduce labor costs. The panels themselves are very affordable, in part because of their lowered shipping costs attributed to their light weight. Panels can even be installed in adverse weather conditions.

THE ULTIMATE IN ENERGY EFFICIENCY

You get 100% reliable thermal performance and insulation continuity – no cavities, no gaps, no crushed insulation and no cold bridges. No change of R-value occurs when purlin and girt center dimensions are varied. The insulated core is one of the most thermally effective insulants commonly available today. Insulation values can be easily increased by simply increasing the thickness of the panels.



Double Mesa-DM40
Insulated Wall Panel



Striated-ST40
Insulated Wall Panel



Heavy Embossed-HE40
Insulated Wall Panel



Standing Seam-SR2
Insulated Roof Panel

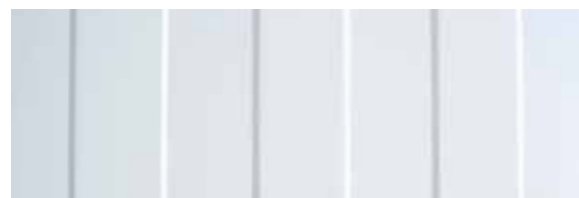
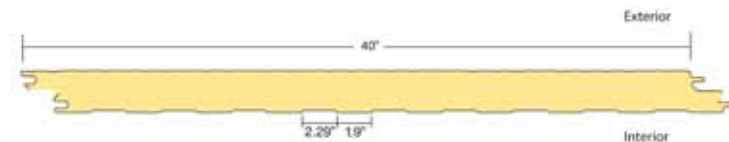
INSULATED WALL PANELS

Each project follows a different set of parameters and, as such, may require a different set of wall panels. We offer a selection of panels to accommodate the needs of any project. Each of our three wall panel profiles detailed below is ideally suited for commercial and industrial applications. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint, and the attractive profiles break up the flat expanse of metal on large projects such as manufacturing plants or warehouses.



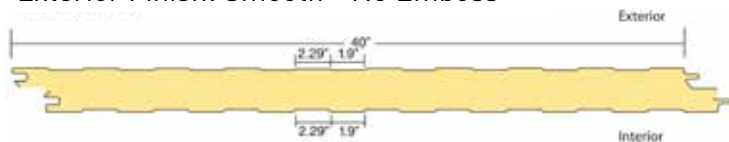
STRIATED-ST40

Exterior Finish: Smooth - No Emboss



DOUBLE MESA-DM40

Exterior Finish: Smooth - No Emboss



Heavy Embossed-HE40

Exterior Finish: Heavy Embossed Flat



Wall Systems Specifications Striated-ST40, Double Mesa-DM40; Heavy Embossed-HE40 Profiles

Panel Thickness	2"	2.5"	3"	4"
Insulating "R" Values*	R16	R20	R24	R32
*R Values are derived from thermal testing per ASTM C518 @ 40°F mean and ASTM C1363 @ 35°F mean. For project specific values, please contact your sales representative.				
Insulating "U" Factors	U0.061	U0.049	U0.041	U0.031
Panel Width	40"			
Minimum Length	8'0"			
Maximum Length	56'0"			
Application	Vertical			
Exterior Gauge (Standard)	26 ga.			
Interior Gauge	26 ga.			
Exterior Paint Coating	Kirby-Cool (PVDF)**			
**When using field-applied coatings, always order Polyester.				
Interior Paint Coating	Polyester**			
Interior Finish	Light Emboss			

INSULATED WALL PANEL FEATURES & BENEFITS

- The double tongue and groove is self-aligning and weathertight, and it allows for sealant application at either the interior or exterior side of the panel joinery depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- Panels arrive on-site in one piece and require one simple-step installation, reducing construction time and costs.
- Standard exterior and interior steel surface is 26-gauge.

ALLOWABLE LOAD FOR ALL WALL PANELS (PSF) BASED ON L/180 DEFLECTION

PANEL THICKNESS (IN)	PANEL WEIGHT (PSF) 26/26 Ga.	SIMPLE SPAN (FT)								MULTIPLE SPAN (FT)							
		5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
2"	2.22	68	49	37	29	23	19			94	70	54	43	35	29	24	20
2.5"	2.34	82	60	45	35	28	23	19		109	82	64	51	41	34	29	24
3"	2.41	96	70	53	41	33	27	22	19	125	94	74	59	48	40	33	28
4"	2.62	131	95	72	56	45	37	31	26	156	119	94	76	63	53	45	38

Notes: 1) Spans shown are based on transverse load testing per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
2) Fastening schedules shall be based on project wind load requirements.

INSULATED ROOF PANELS

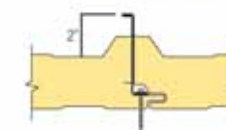


These mechanically seamed roof panels are an ideal solution where energy-efficient standing seam roof panels are required. The unique design of this panel allows for 26-gauge exterior and interior skins, saving money and weight on a building.



STANDING SEAM ROOF-SR2 PROFILE

Exterior Finish: Smooth - No Emboss



Roof Systems Specifications Standing Seam

Thickness	3.25"	4"	5"	6"
Insulating "R" Values*	R26	R32	R42	R50
*R Values are derived from thermal testing per ASTM C518 @ 40°F mean and ASTM C1363 @ 35°F mean. For project specific values, please contact your sales representative.				
Insulating "U" Factors	U0.038	U0.031	U0.024	U0.020
Panel Width	40"			
Minimum Length	8'0"			
Maximum Length	56'0"			
Exterior Gauge (Standard)	26 ga.			
Interior Gauge (Standard)	26 ga.			
Exterior Paint Coating	Kirby-Cool (PVDF)			
Interior Paint Coating	Polyester			
Interior Finish	Light Emboss			
Minimum Roof Pitch	1/2:12			

INSULATED ROOF PANEL FEATURES & BENEFITS

- The panel's standing seam joint is self-aligning and allows for easy sealant application at the panel joinery.
- Panels arrive on-site in one piece and require one simple-step installation, reducing construction time and costs.
- Standard exterior and interior steel surface is 26-gauge.
- The standing seam joint is 180-degree field seamed.

ALLOWABLE LOAD FOR STANDING SEAM ROOF PANELS BASED ON L/240 DEFLECTION

PANEL THICKNESS (IN)	PANEL WEIGHT (PSF) 26/26 Ga.	SIMPLE SPAN (FT)								MULTIPLE SPAN (FT)							
		5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
3.25"	2.48	94	80	58	46	38	32			84	70	61	53	46	40	30	
4"	2.65	122	98	78	64	52	44	36		110	90	76	66	59	52	45	39
5"	2.86	153	128	103	85	71	58	45	36	139	114	96	83	74	66	60	52
6"	3.12	184	153	128	106	90	76	60	50	168	138	117	101	89	80	72	66

Notes: 1) Spans shown are based on transverse load testing per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
2) Fastening schedules shall be based on project wind load requirements.

AdobeTexture™ factory finish coated wall panels offer a low gloss, multi-textured profile and finish system that simulates a troweled stucco appearance. This is a premium coating which is applied to the Heavy Embossed Flat Profile panel. This unique process eliminates the need for additional or factory applied stucco coatings.

The panel's exterior stucco-like surface is a hard aggregated fiber-reinforced polymer finish. This factory-applied finish combines an attractive appearance with durability, resisting the effects of impact, abrasion and weather. The interior panel face is finished in the Mesa Profile and can act as a finished interior wall.

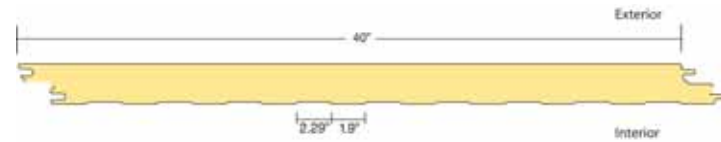
The AdobeTexture™ insulated wall panels deliver excellent energy efficiency. The factory-applied joint sealant provides a complete wall-system weather barrier.

Panels are offered in 2- to 4-inch thicknesses. Panel width is 40" and panels are available in lengths from 8' to 56'. Installation of panels is simple and secure, requiring only a simple clip.



ADOBETEXTURE™ WALL PANELS

Exterior Profile: Adobe Texture



ADOBETEXTURE™ PANEL FEATURES & BENEFITS

- Eliminates need for field coatings
- Breakthrough technology bringing stucco look and texture to insulated wall panels
- Same easy installation as standard insulated wall panels
- Eliminates multi-step field assembly currently needed for stud and stucco systems
- Self-alignment double tongue and groove with concealed fastener joints
- Matching AdobeTexture trim for a clean, continuous look and feel
- 25-year factory warranty on finish system including adhesion, chalking and fading









Our insulated wall panels benefit from our many years of experience in the metal buildings industry and the use of our cool coating technology.

To be considered cool, products must have a solar reflectance of at least 25%. Solar reflectance is the measure of a panel's ability to not absorb certain wavelengths of the sun. Another important factor is thermal emittance, the measure of a panel's ability to release heat that it has absorbed. Put these two factors together and you get the solar reflectance index, the measure of a panel's ability to reflect solar heat. Using insulated wall and roof panels as part of your whole cool-coated metal system can reduce energy consumption by more than 40% (as reported by the Oak Ridge National Laboratory).

EXTERIOR COLORS - Kirby-Cool PVDF

These colors utilize cool coating technology





These "cool" exterior coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for stealth aircraft in the U.S. military. This is by far the best paint system available on the market for commercial buildings.

			
Regal White IR .72 SRI 87	Warm White IR .59 SRI 70	Surrey Beige IR .51 SRI 58	Pearl Gray IR .50 SRI 57
			
Royal Blue IR .29 SRI 29	Evergreen IR .30 SRI 31		


IR = Initial Reflectance • SRI = Solar Reflectance Index



ADOBETEXTURE™ WALL PANELS

			
Regal White Adobe	Sandstone Adobe	Surrey Beige Adobe	Pearl Gray Adobe

INTERIOR COLOR - POLYESTER

	<div style="border: 1px solid gray; padding: 5px; background-color: #f0f0f0;">NOTE: When using field-applied coatings, always order Imperial White Polyester for the exterior coating.</div>
Imperial White	





A **NUCOR** Company

KIRBY BUILDING SYSTEMS

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ABOUT KIRBY BUILDING SYSTEMS

For over fifty years, Kirby Building Systems has been a leading manufacturer of custom-engineered, high-quality, metal building systems for agricultural, aviation, commercial, industrial, institutional, recreational and most other specialty metal building applications. Not only can Kirby design simple buildings, but our niche in the market place is to provide customized solutions for complex projects that may not appear to be "pre-engineered" at first glance. The Kirby focus on quality and service results in building systems with solid advantages, including fast-response design, web-based estimating software, more detailed drawings, fewer pieces to erect, and complete buildings delivered on time resulting in faster completion schedules.

Kirby specializes in custom-engineered construction solutions, encompassing multiple building components, framing options, extended bay options, special exteriors, four standing seam roof systems, Kirby-Cool (PVDF and Siliconized Polyester) paint finishes and industry-leading warranty protection programs. With a wide variety of product offerings that are ideal for the unique requirements of many churches, schools and fire stations, Kirby's Builder network throughout the eastern United States has the expertise to deliver top quality metal building systems.

Kirby is a division of Nucor Corporation, the largest steel producer and steel recycler. Nucor is a Fortune 500 corporation as well as a leading member of the American Iron and Steel Institute (AISI).



ACCREDITED
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