

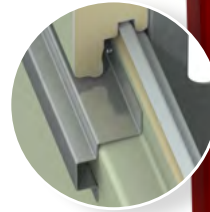


BW UNIVERSAL SYSTEM™

INSULATED METAL WALL PANEL SYSTEM

The BW Universal System is the ultimate backup wall system providing superior air, water, thermal and vapor protection in an all-in-one barrier component. It can be horizontally installed with nearly any type of exterior rainscreen system, from single skin and modular metal panels to brick, ACM panels and others. It spans up to 24" o.c. This unique insulated metal panel wall system introduces the new standards in cost savings, design integrity and sustainability. Easily and quickly installed in a single step, the BW Universal System eliminates the need for multiple work crews, expediting close-in/dry-in building times and reducing the likelihood of improper installation.

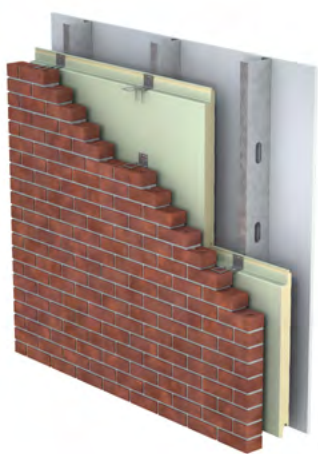
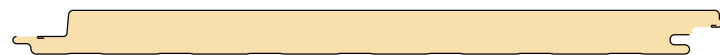
LOCK & GROOVE SYSTEM



PANEL SYSTEM



PANEL PROFILE



BW UNIVERSAL SYSTEM™

PRODUCT SPECIFICATIONS

WIDTH • 32", 36"

THICKNESS • 2", 3"

LENGTH • 12'-0" or 20'-0" Horizontal

EXTERIOR PROFILE • No profile, unembossed

EXTERIOR FACE • AZ-50 aluminum-zinc coated steel in 29 Ga. with epoxy primer finish

INTERIOR PROFILE • Shallow Planked, nominal 3/4" deep, unembossed

INTERIOR FACE • AZ-50 aluminum-zinc coated steel in 29 Ga. with epoxy primer finish

CORE • Foamed-in-place polyisocyanurate

JOINT • Tongue-and-groove with concealed face fastening

THERMAL VALUE • k-Factor* @ 75°F (24°C) is 0.147

U-FACTORS AND R-VALUES

u-factor (BTU/h-ft²·°F)**

R-value (h-ft²·°F/BTU)*

PANEL WIDTH: 36"

PANEL WIDTH: 36"

	75°		75°
2"	0.073	2"	13.6
3"	0.050	3"	20.4

*k-Factor Units: BTU in/ft²·hr. °F, Based on ASTM C518, 75° core mean temp.

**Based on ASTM C1363, 75°F core mean temp.

† Primarily for brick application

For Clip and Brick u-factors, contact a Metl-Span representative

SYSTEM SELECTION

RAINSCREEN	BWUH RAIL	BWUV RAIL	BRICK TIES	PANEL CLIPS
Horizontal Profile Panels	X			X
Vertical Profile Panels		X		
Brick			X	
Terra Cotta	X			
ACM Panels	X- horiz.	X- vert.		
Honeycomb Panels	X- horiz.	X- vert.		
Stucco	X			
Perforated Panels				X

DESIGN FEATURES & BENEFITS

- Provides air, water, thermal and vapor barrier in one step
- Allows you to use multiple façade options while not reducing thermal efficiency
- Easy and fast installation, with reduced construction and labor costs
- Encloses the building faster in all weather conditions

TESTING

TEST/APPROVAL	TEST METHOD	TEST TITLE	RESULTS
Fire US	ASTM E84	Surface Burning Characteristics of Building Materials	Flame spread <25, smoke developed <450
	NFPA 259	Test Method for Potential Heat of Building Materials	Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285
	NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies	Representative mockup tested in accordance with NFPA 285. Requires one layer of 5/8-inch Type X gypsum board on the interior side of the steel framing of the panels. Contact Metl-Span for complying wall assemblies.
Structural	ASTM E72	Strength Tests of Panels for Building Construction	See load/span tables
Thermal Performance	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	k-Factor of 0.147 BTU·in/hr·ft ² ·°F at 75°F mean core
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	See Thermal Performance Guide
Air Infiltration	ASTM E2357	Rate of Air Leakage Through Curtain Walls Under Specified Pressure Differences	Maximum Air Infiltration Rate of 0.002 cfm/sq. ft. at a static-air-pressure difference of 1.57 psf
Water Infiltration	ASTM E331	Water Penetration of Exterior Walls by Uniform Static Air Pressure Differences	No uncontrolled leakage when tested to a static pressure of 15 psf for 15 minutes No uncontrolled leakage when tested at a differential pressure of 6.24 psf for 2 hours (per International Build Code - Chapter 14)

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