



TU-BUILD
STEEL BUILDINGS



INDUSTRIAL | COMMERCIAL | RECREATIONAL | INSTITUTIONAL

**INSULATED METAL
PANELS**

ABOUT U-BUILD STEEL BUILDINGS

U-Build Steel Buildings puts the strength of one of North America's largest steel building manufacturers directly into your hands.

With more than 55 years of experience, countless buildings across North America, and a growing portfolio of overseas projects, U-Build Steel Buildings are known for their quality and reliability.

It's your building, build it your way.



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[UBuildSB.com](https://ubuildsb.com)

INSULATED METAL PANELS

We offer insulated metal panels that are available in a variety of configurations. They can be installed as exterior and interior walls and high-performance roofs; including cold storage applications. These panels are well suited for institutional, commercial, and industrial projects of all sizes and complexities.

The installation of insulated metal panels is quick and easy, allowing the building to be completely enclosed in a fraction of the time compared to conventional wall assemblies. The superior thermal values make increasing thermal performance across climatic zones easy to achieve for both walls and roofs.

This guide covers all the basic information about the Insulated Metal Panels that we offer. For further information please contact us by email at info@ubuildsb.com, call 1 (855) 385-4295, or visit our website at ubuildsb.com.



DISTRIBUTION FROM COAST TO COAST



MADE IN MANITOBA



info@ubuildsb.com

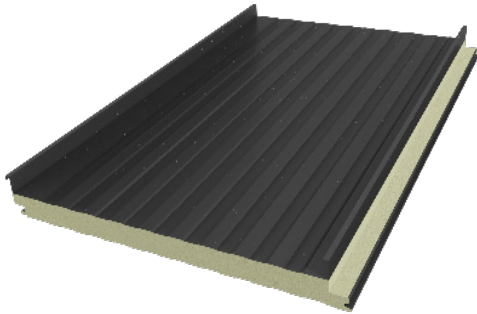


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SKYLINE Roof



Skyline Roof panels are produced with a standard Mesa profiled non-embossed smooth steel face. These roof panels are an economical option for industrial and commercial projects. The 2" Standing seam is mechanically folded and incorporates a hidden fastened clip.

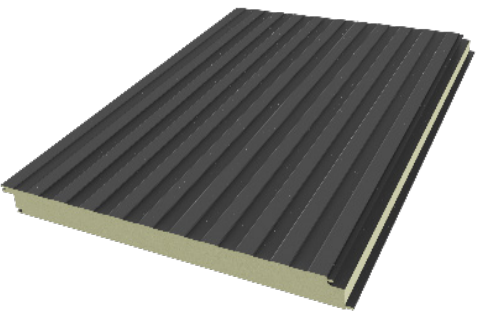
COVERAGE WIDTH: 42" (1067mm)

PANEL LENGTHS: 10' to 52' (3048mm to 15850mm)

EXTERIOR FACE: 22ga, 24ga, or 26ga Mesa Smooth galvanized G-90 (Z275) pre painted steel

INTERIOR FACE: 22ga, 24ga, or 26ga Mesa profile in Smooth or Light Embossed finish galvanized G-90 (Z275) pre painted steel in Regal White. Other colour options are available.

HORIZON Wall MS



Horizon Wall - Mesa Smooth panels are produced with a standard Mesa profiled smooth steel face. These panels are an economical option for industrial and commercial walls, with added strength from a double Mesa profile for long panel lengths.

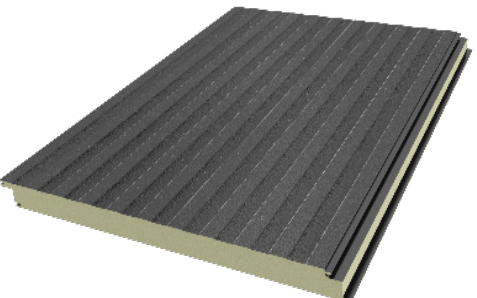
COVERAGE WIDTH: 42" (1067mm)

PANEL LENGTHS: 8' to 52' (2438mm to 15850mm)

EXTERIOR FACE: 22ga, 24ga, or 26ga Mesa Smooth galvanized G-90 (Z275) pre painted steel

INTERIOR FACE: 22ga, 24ga, or 26ga Mesa profile in Smooth or Light Embossed finish galvanized G-90 (Z275) pre painted steel in Regal White. Other colour options may be available.

HORIZON Wall MLE



Horizon Wall - Mesa Light Embossed panels are produced with a standard Mesa profiled Light Embossed steel face. These panels are an economical option for industrial and commercial walls, with added strength from a double Mesa profile for long panel lengths.

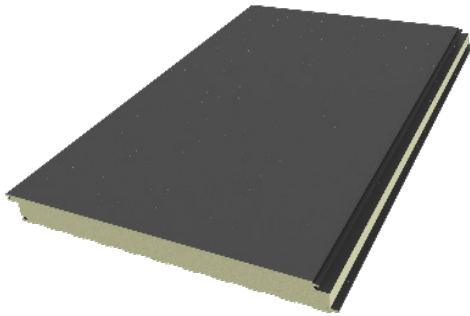
COVERAGE WIDTH: 42" (1067mm)

PANEL LENGTHS: 8' to 52' (2438mm to 15850mm)

EXTERIOR FACE: 22ga, 24ga, or 26ga Mesa Light Embossed galvanized G-90 (Z275) pre painted steel

INTERIOR FACE: 22ga, 24ga, or 26ga Mesa profile in Smooth or Light Embossed finish galvanized G-90 (Z275) pre painted steel in Regal White. Other colour options are available.

EDGE Wall SM



Leading Edge - Smooth panels are produced with a standard smooth steel face. This provides a flat, smooth face, adding a clean look to the exterior.

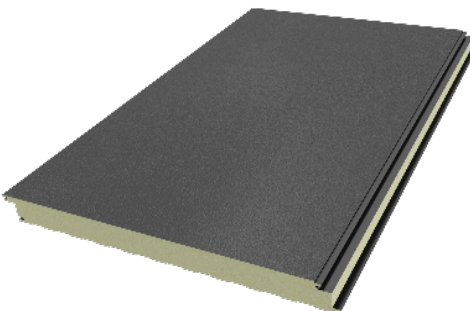
COVERAGE WIDTH: 42" (1067mm)

PANEL LENGTHS: 8' TO 32' (2438mm to 9754mm)

EXTERIOR FACE: 22ga Flat Smooth galvanized G-90 (Z275) pre painted steel

INTERIOR FACE: 22ga, 24ga, or 26ga Mesa profile in Smooth or Light Embossed finish galvanized G-90 (Z275) pre painted steel in Regal White. Other colour options may be available.

EDGE Wall LE



Leading Edge Wall - Light Embossed panels are produced with a standard light embossed flat steel face. This provides added subtle visual texture to a flat panel.

COVERAGE WIDTH: 42" (1067mm)

PANEL LENGTHS: 8' TO 32' (2438mm to 9754mm)

EXTERIOR FACE: 22ga Flat Light Embossed galvanized G-90 (Z275) pre painted steel

INTERIOR FACE: 22ga, 24ga, or 26ga Mesa profile in Smooth or Light Embossed galvanized G-90 (Z275) pre painted steel in Regal White. Other colour options are available.

THICKNESS & R-VALUES

ARTSPAN's Skyline Roof Panel, Horizon Wall Panel, and the Leading Edge Wall Panel profiles are all available in several thicknesses with the associated R-Values shown in this chart.

THICKNESS	2"	3"	4"	5"	6"
R-VALUE*	16.67	25	33.33	41.67	50

Test based on ASTM C1363 with 40F (4.4C) mean temp with a temp differential of 58F (14C).

INSULATED METAL PANEL COLOUR CHART

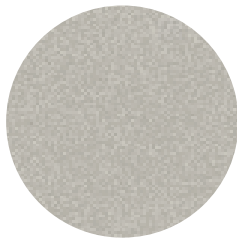
PVDF colours available in standard and premium colours.

*Metallic Colours are batch sensitive and directional in nature.

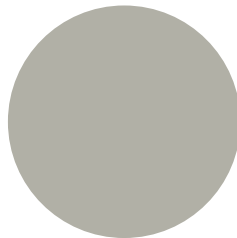
† Special order in 22ga. Colour selection may affect maximum panel lengths. Please contact for delivery times and additional information.



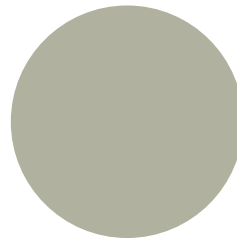
REGAL WHITE
STANDARD COLOUR



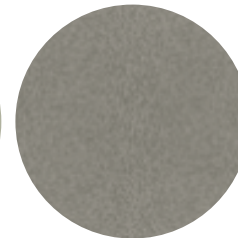
* **SILVER METALLIC**
PREMIUM COLOUR



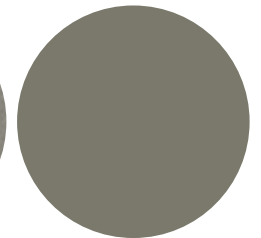
ASH GREY
STANDARD COLOUR



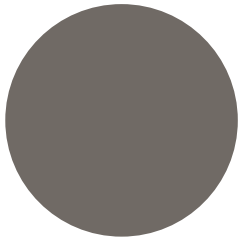
PARCHMENT
PREMIUM COLOUR



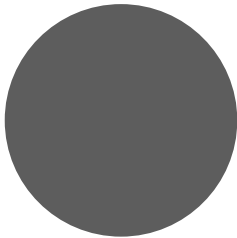
* **WEATHERED ZINC**
PREMIUM COLOUR



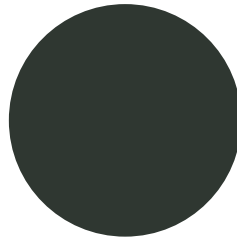
OLD ZINC GREY
STANDARD COLOUR



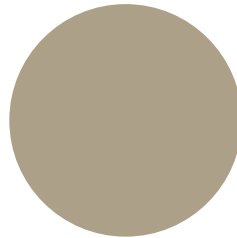
CHARCOAL
STANDARD COLOUR



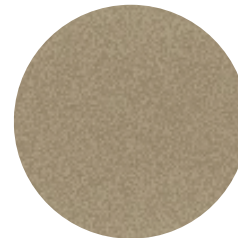
SLATE GREY
PREMIUM COLOUR



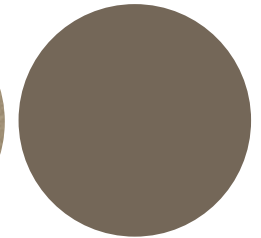
BLACK
PREMIUM COLOUR



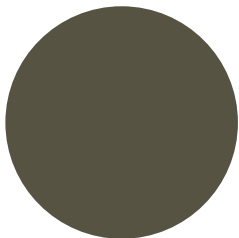
† **SIERRA TAN**
STANDARD COLOUR



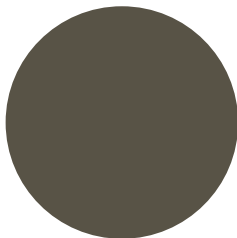
† * **CHAMPAIGN METALLIC**
PREMIUM COLOUR



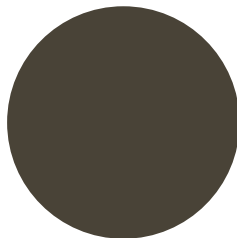
† **MOCHA**
PREMIUM COLOUR



† **WEATHERED COPPER**
STANDARD COLOUR



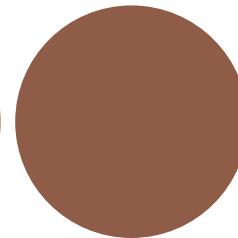
† **BRONZE**
PREMIUM COLOUR



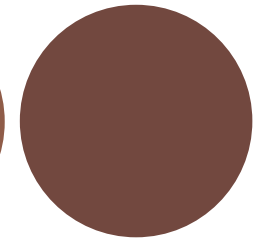
DARK BRONZE
PREMIUM COLOUR



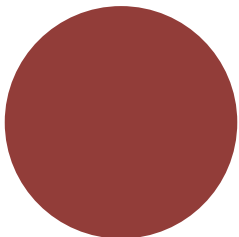
* **COPPER PENNY**
PREMIUM COLOUR



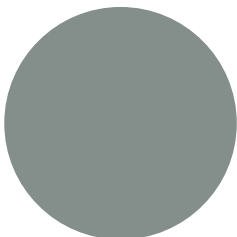
TERRA COTTA
PREMIUM COLOUR



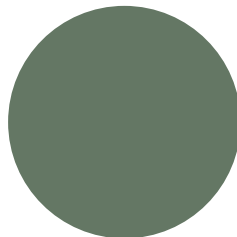
† **COLONIAL RED**
PREMIUM COLOUR



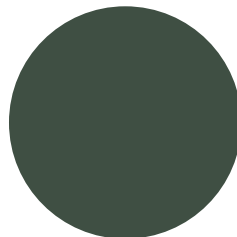
RETRO RED
PREMIUM COLOUR



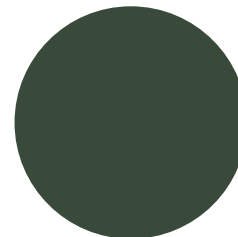
OLD TOWN GREY
STANDARD COLOUR



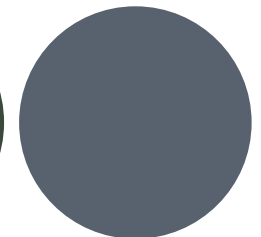
† **HEMLOCK GREEN**
PREMIUM COLOUR



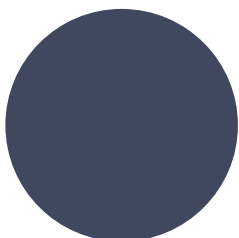
† **HARTFORD GREEN**
PREMIUM COLOUR



FOREST GREEN
PREMIUM COLOUR



TWILIGHT BLUE
PREMIUM COLOUR



REGAL BLUE
PREMIUM COLOUR

The colours shown are as close as possible to the actual paint colours, however they are subject to variation due to the printing process. It is strongly recommended to request an actual fan set of colours for selection. Colours available are subject to change.

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TESTING: INSULATED METAL PANELS

STANDARD	DESCRIPTION	RESULTS
CAN/ULC S101	Standard Methods of Fire Endurance Tests of Building Construction and Materials	15-minute stay in place
CAN/ULC S102	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies	Flame Spread ≤ 25 , Smoke Development ≤ 200
CAN/ULC S126	Standard Method of Test for Fire Spread Under Roof-Deck Assemblies	Complies
CAN/ULC S127	Standard Corner Wall Method of Test for Flammability Characteristics of Non-Melting Foam Plastic Building Materials	Flame Spread ≤ 350 foam core w/o steel skin
CAN/ULC S138	Standard Method of Test for Fire Growth of Insulated Building Metal Panels in a Full-Scale Room Configuration	Complies
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Flame Spread ≤ 25 , Smoke Development ≤ 200
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution for Wall and Ceiling Interior Finish to Room Fire Growth	Complies
ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Load Charts for load/span and deflection tables
ASTM E1592	Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference	See Load Charts
ASTM E1646	Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems	No water penetration at 20 psf pressure differential
ASTM E1680	Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems	0.02 L/(s·m ²) at 75 Pa (0.004 cfm/ft ² at 1.57 psf)
ASTM E283	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen	0.02 L/(s·m ²) at 75 Pa (0.004 cfm/ft ² at 1.57 psf)
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference	No water penetration at 20 psf pressure differential
ASTM C518	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	K-Factor of 0.136 BTU·in/hr·ft ² ·°F at 75°F
ASTM C1363	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	K-Factor of 0.12 BTU·in/hr·ft ² ·°F at 39°F

*Standards are tested and valid for all IMP Product lines, including Edge Wall, Horizon Wall, and Skyline Roof panels. 2020

ROOF LOAD SPAN TABLES

PRODUCT: Insulated Roof Panel
SERIES: Skyline

PROFILE: Mesa
GAUGE: 26ga or heavier
FINISHED: Smooth

Panel Thickness	Design Criteria	Allowable Loads (PSF)						
		2'	3'	4'	5'	6'	7'	8'
2" Thick	Bending/Shear	192	128	96	77	64	49	38
	Deflection (L/240)	58	53	48	43	36	29	24
	Connection	65	44	33	26	22	19	16
3" Thick	Bending/Shear	192	128	96	77	64	49	38
	Deflection (L/240)	58	53	48	43	36	29	24
	Connection	65	44	33	26	22	19	16
4" Thick	Bending/Shear	291	224	168	134	112	96	84
	Deflection (L/240)	98	95	92	90	76	63	53
	Connection	65	44	33	26	22	19	16
5" Thick	Bending/Shear	317	286	215	172	143	123	107
	Deflection (L/240)	108	102	96	90	83	70	58
	Connection	65	44	33	26	22	19	16
6" Thick	Bending/Shear	349	312	248	199	166	142	124
	Deflection (L/240)	110	110	109	109	108	92	77
	Connection	65	44	33	26	22	19	16

TABLE NOTES:

- 1) Allowable loads were derived from tests conducted in accordance with ASTM E1592 and ASTM E72.
- 2) Allowable loads are calculated with a factor of safety of 2.0 for bending and shear.
- 3) Connection strengths reflect a standard fastener pattern - (2) 1/4" - 14 self drilling screw into minimum 14ga substrate. Other substrates must be designed separately.
- 4) Fastener capacity is based on manufacturer pullout/pullover data and are calculated with a safety factor of 3.0.
- 5) Allowable loads assume a minimum bearing of 2".
- 6) Thermal Effects were not considered in analysis.
- 7) The structural capacity of the supporting members were not considered.

WALL LOAD SPAN TABLES

PRODUCT: Insulated Wall Panel
SERIES: Edge, Horizon

PROFILE: Mesa or Smooth
GAUGE: 26ga or heavier
FINISHED: Embossed or Smooth

Panel Thickness	Design Criteria	Allowable Loads (PSF)										
		4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'
2" Thick (See Table Note #3)	Bending/Shear	93	59	41	30	23	18	15	12	10		
	Deflection (L/180)	47	41	33	27	22	19	16	14	12		
	Connection	42	35	33	26	22	19	16	15	13		
3" Thick	Bending/Shear	126	101	84	68	52	41	33	27	23		
	Deflection (L/180)	94	77	68	58	34	32	29	19	17		
	Connection	57	45	38	33	29	25	23	20	19		
4" Thick	Bending/Shear	168	134	112	84	64	51	41	34	29	24	21
	Deflection (L/180)	110	101	92	79	67	57	49	42	37	32	29
	Connection	57	45	38	33	29	25	23	20	19	17	16
5" Thick	Bending/Shear	168	134	112	84	64	51	41	34	29	24	21
	Deflection (L/180)	110	101	92	79	67	57	49	42	37	32	29
	Connection	57	45	38	33	29	25	23	20	19	17	16
6" Thick	Bending/Shear	168	134	112	84	64	51	41	34	29	24	21
	Deflection (L/180)	110	101	92	79	67	57	49	42	37	32	29
	Connection	57	45	38	33	29	25	23	20	19	17	16

TABLE NOTES:

- 1) Allowable loads were derived from tests conducted in accordance with ASTM E1592 and ASTM E72.
- 2) Allowable loads are calculated with a factor of safety of 2.0 for bending and shear.
- 3) Connection strengths reflect a standard fastener pattern - (2) 1/4" - 14 self drilling screw into minimum 14ga substrate. Other substrates must be designed separately. 2" wall panel utilize a flat clip. All other thicknesses utilize an angle clip.
- 4) Fastener capacity is based on manufacturer pullout/pullover data and are calculated with a safety factor of 3.0.
- 5) Allowable loads assume a minimum bearing of 2".
- 6) Thermal Effects were not considered in analysis.
- 7) The structural capacity of the supporting members were not considered.
- 8) Bending/Shear and Deflection for 5" and 6" panels based on 4" capacity.

PANEL WEIGHTS & LENGTHS TABLE

Edge Wall Panel

Width: 42"
 Profile: Flat
 Insulation Thickness: 2", 3", 4", 5", 6"
 Exterior Facing: 22ga
 Interior Facing: 22ga, 24ga, 26ga
 Available Finish: Heavy Emboss,
 Light Emboss

Horizon Wall Panel

Width: 42"
 Profile: Mesa
 Insulation Thickness: 2", 3", 4", 5", 6"
 Exterior Facing: 22ga, 24ga, 26ga
 Interior Facing: 22ga, 24ga, 26ga
 Available Finish: Light Emboss

Skyline Roof Panel

Width: 42"
 Profile: Mesa
 Insulation Thickness: 2", 3", 4", 5", 6"
 Exterior Facing: 22ga, 24ga, 26ga
 Interior Facing: 22ga, 24ga, 26ga
 Available Finish: Light Emboss
 interior

Panel Weights (PSF)										
Panel Thickness (in.)	Panel Width (in.)	Steel Gauge (Facer/Liner)								
		26/26	24/26	22/26	26/24	24/24	22/24	26/22	24/22	22/22
2	42	2.23	2.48	2.73	2.48	2.73	2.98	2.73	2.98	3.23
3	42	2.44	2.69	2.94	2.69	2.94	3.19	2.94	3.19	3.44
4	42	2.65	2.90	3.15	2.90	3.15	3.40	3.15	3.40	3.65
5	42	2.85	3.10	3.35	3.10	3.35	3.60	3.35	3.60	3.85
6	42	3.06	3.31	3.56	3.31	3.56	3.81	3.56	3.81	4.06

Maximum Length based on colour (ft)										
Panel Thickness (in.)	Panel Width (in.)	Edge 22ga Wall*			Horizon 26ga/26ga Wall			Skyline 24ga/26ga Roof		
		Light	Medium	Dark	Light	Medium	Dark	Light	Medium	Dark
2	42	25'	25'	20'	38'	25'	16'	47'	36'	24'
3	42	30'	30'	20'	45'	35'	25'	50'	38'	30'
4	42	30'	30'	25'	50'	38'	28'	52'	41'	32'
5	42	32'	30'	25'	52'	41'	30'	52'	44'	34'
6	42	32'	30'	25'	52'	44'	32'	52'	47'	36'

*Smooth or Embossed

Light = Regal White

Medium = Sierra Tan, Parchment, Silver Metallic

Dark = All others

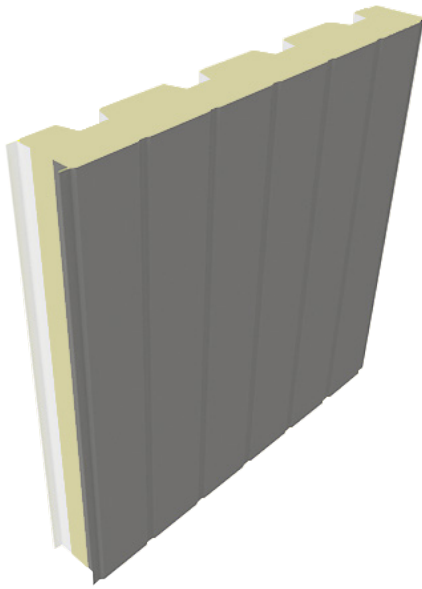
Based on 5' support spacing for walls & 4' support spacing for roofs

*Smooth or Embossed

Subject to change without notice. Please refer to our website, www.ubuildsb.com for current information.



SUMMIT Structural Panels



SUMMIT STRUCTURAL PANELS - LIGHT EMBOSSED

Artspan Inc. offers the Summit Structural Panels to eliminate the need for additional structural framework in your project. These panels are used to form the floor, wall, and roof systems of your building envelope.

COVERAGE WIDTH: 36" (914.4mm)

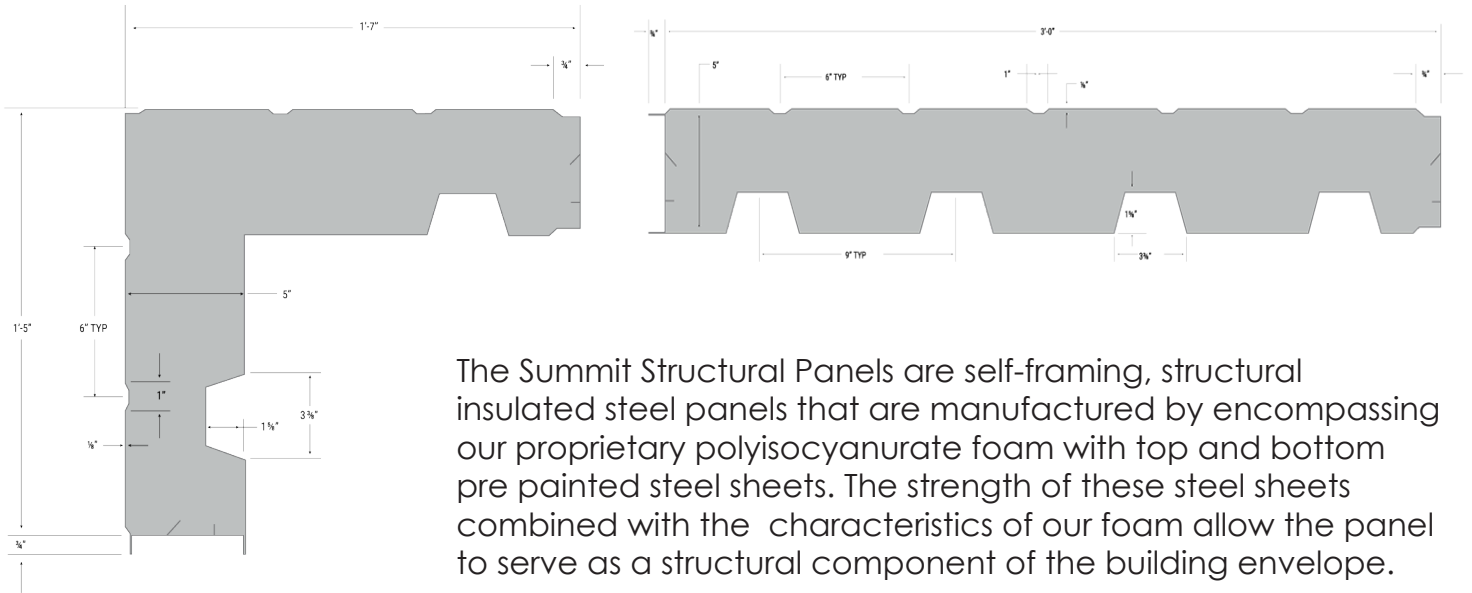
PANEL LENGTHS: 4' to 52' (1219mm to 15850mm)

EXTERIOR FACE: 24ga or 26ga light corrugated pre painted Grade 33 steel (conforms to ASTM A792), Z275 or AZM150 finish, Light Embossed texture.

THICKNESS: 5"

EFFECTIVE R-VALUE*: 28.5

INTERIOR FACE: 24ga deep corrugated galvanized G-90 (Z275) pre painted steel.



The Summit Structural Panels are self-framing, structural insulated steel panels that are manufactured by encompassing our proprietary polyisocyanurate foam with top and bottom pre painted steel sheets. The strength of these steel sheets combined with the characteristics of our foam allow the panel to serve as a structural component of the building envelope.

Left: A Summit corner panel profile.

Right: A typical Summit panel profile.

Test based on ASTM C1363 with 40F (4.4C) mean temp with a temp differential of 58F (14C).

LOAD SPAN TABLES

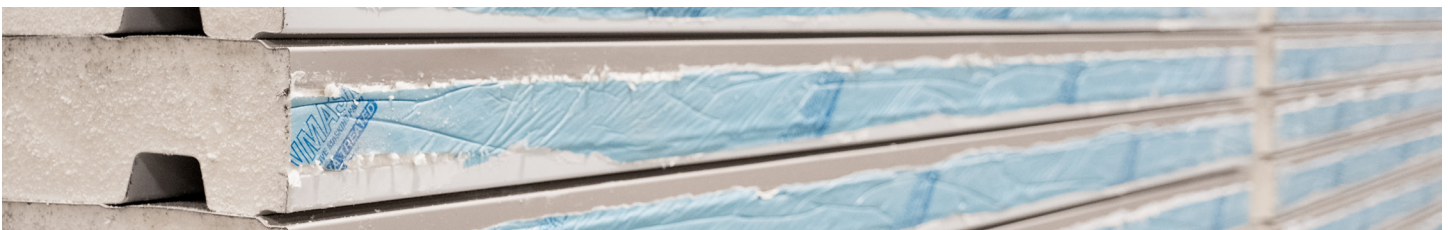
PRODUCT: Structured Insulated Panel
SERIES: Summit

PROFILE: Corrugated
GAUGE: 26ga or heavier
FINISHED: Embossed

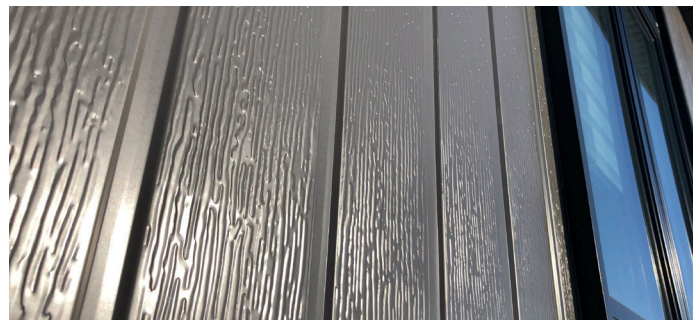
Panel Orientation	Design Criteria	Allowable Loads (PSF)													
		4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'
Flat Side Up	Bending/Shear	500	400	300	220	169	133	108	89	75	64	55	48	42	37
	Deflection (L/180)	400	225	149	110	90	85	80	73	65	58	50	42	23	13
Flat Side Down	Bending/Shear	500	400	333	253	193	153	124	102	86	73	63	55	48	43
	Deflection (L/180)	400	225	150	110	90	85	80	73	65	58	50	42	23	13

TABLE NOTES:

- 1) Table based on allowable stress design.
- 2) Based on 5" Summit panel with 24ga light profile exterior and 24ga fluted interior panel (Min Grade 50 ksi).
- 3) Structural capacity of the purlins/girts are not considered and must be examined independently.
- 4) Fasteners are not considered and must be examined independently.



The Summit Structural Panels allow for quick and easy assembly of small projects with minimal structural steel requirements. Panels are fit into a channel in the ground and slid in next to each other to create a firm and secure seal without the need for other large components. This method allows for fast construction while also offering the maximum usable space inside.






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