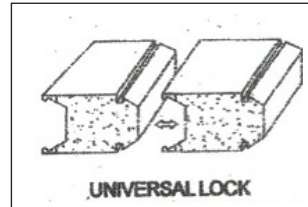


3" INSULATED PANEL CANOPY SYSTEMS



Panels stocked in white and ivory. Gutter and side fascia stocked in white, ivory, and bronze.



3" Panel with .025 aluminum on both sides – 4ft. wide or 2ft. wide

L/120		L180				L/240						
10	20	30	40	10	20	30	40	10	20	30	40	
SPAN	18-0	12-9	10-9	9-3	14-9	11-4	9-7	8-6	13-3	10-0	8-6	7-8

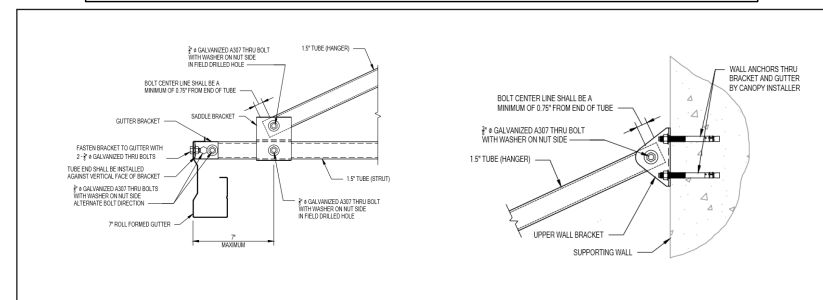
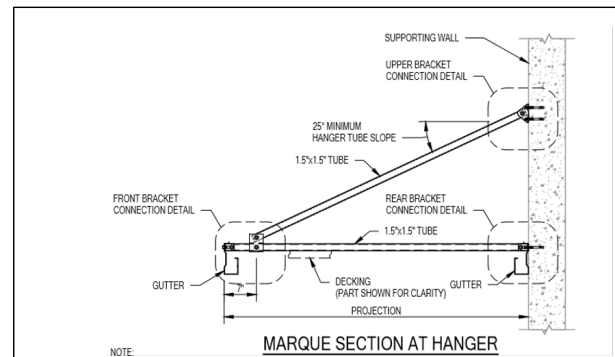
3" Panels in stock. Thicker panels and .032 skin are also available for larger spans if necessary. Panels are also stocked with a fan beam inside the panel for wiring and support. Primarily constructed with a 3" header to attach to structure with gutter and side fascia for front and sides. A support beam must always be used to attach posts to the panels.

OVERHEAD MARQUEE CANOPY SYSTEMS



.125 TUBING TABLE

PROJ.	SPACING/FT	GRAVITY	WIND B	WIND C
5	4	66	180	180
5	6	44	180	160
6	6	29	150	130
7	4	30	160	130
7	6	20	130	--
8	4	22	130	110



Overhead hanger sections are held together by 1 1/2" tubing in .125 thickness as needed. The hanger kits consist of an upper wall mount bracket, a saddle bracket, and 2-1.5" insert brackets. Tubing sold separately.



Tubing available in white, ivory, bronze, black, and clear anodized.

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GUIDE SPECIFICATIONS

GENERAL

1.1 SECTION INCLUDES

A. Pre-fabricated, Custom Designed Fixed Protective Canopies and Covers: Extruded and roll-formed for walkways, entrances, patios, overhead marquees, windows, parking lots, etc.

1. Design scope includes but is not limited to the following.
 - a. Overhead canopies.
 - b. Extruded covers.
 - c. Flat pan covers.
 - d. W-pan covers.
 - e. Insulated covers
 - f. Commercial patio covers

1.2 RELATED SECTIONS

A. Section 03300-Cast in place Concrete : Concrete footings.
 B. Section 077123-Manufactured Gutter and downspouts.
 C. Section 09960-High performance Coatings: Baked enamel coatings and anodized finishes.

1.3 REFERENCES

- A. ASTM International (ASTM)
 1. ASTM A307-Standard Specification for Carbon Steel Bolts, Studs, and Threaded rod. 60 000 PSI Tensile strength.
 2. ASTM A792-Standard Specification for Steel Sheet, 55 percent Aluminum-Zinc Alloy
 3. ASTM B209-Standard Specification for Aluminum and Aluminum- Alloy Sheet and Plate.Coated by the Hot-Dip Process.
 4. ASTM B221-Standard Specification for Aluminum and

Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

5. ASTM E2950-Standard Specification for Metal Canopy Systems.
 6. ASTM F593 – Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs.

B. American Society of Civil Engineers (ASCE)

1. ASCE 7 – Minimum Designs Loads and Associated Criteria for Buildings and Other Structures.

C. American Welding Society (AWS)
 1. AWS D1.1-Structural Welding Code
 D. American Architectural Manufacturer's Association

1. AAMA 2603-Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix).

1.4 SUBMITTALS

- A. Submit under the provisions of Section 01300.
- B. Product Data:
 1. Manufacturer's data sheets on each product to be used.
 2. Preparation instructions and recommendations.
 3. Storage and handling requirements and recommendations.
 4. Typical installation methods.
 5. Include information for factory finish, accessories and other required components.
 6. Include color charts for finish indicating manufacturer's standard colors available for selection.
- C. Verification samples: Samples of

Aluminum finishes for roof panels and all support structures will be provided as needed.

D. Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.

E. Drawings: Submit layout of each canopy or shelter, showing location of supporting members. Include elevation details.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.

1. Designer Qualifications: Engineer Experienced in design of this type of work and licensed in State in which Project is located.

a. Comply with applicable code for submission of design calculations, reviewed shop and erection drawings, and ____ as required for acquiring permits.
 b. Cooperate with regulatory agency or authorities having jurisdiction, and provide data as requested.

B. Installer Qualifications: Company specializing in performing Work of this section with minimum of three years documented experience with projects of similar scope and complexity.

C. Source Limitations: Provide each type of product from single manufacturer to ensure uniformity.

COMPONENTS

- All components are pre-engineered to meet SSBC for live load, wind load, deflection limit and snow loads.
- Components meet all standard building codes and wind uplift conditions.
- W-pans and flat pans are available in .025, .032, and .040.
- Factory prefabricated for time effectiveness and ease of installation.
- Available colors (see chart)
- All aluminum extrusions shall be alloy indicated.
- Aluminum roof panels and gutters shall be 3004-H-36 alloy or equivalent.
- Roll-formed or extruded internal drainage system.
- Thicknesses noted are for bare metal. Underrun tolerance is -5%.
- Screws and bolts shall be 2024 T-4 aluminum or stainless steel or cadmium plated ASTM steel.
- Aluminum is painted with a baked on enamel finish.

COLOR SELECTION

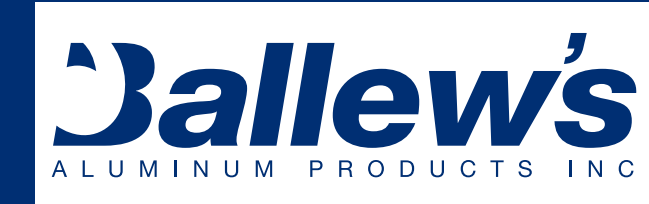
Available Colors



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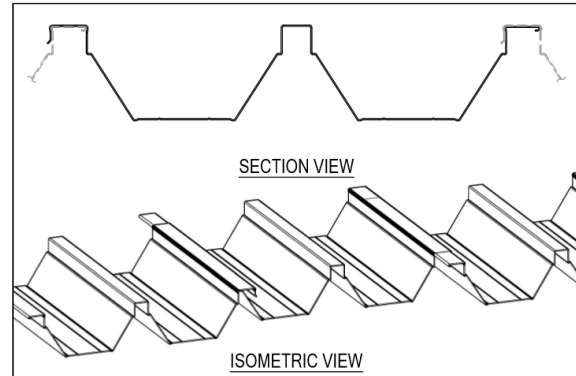
Walkways, Carports, Dock Covers, Protective Covers

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A leader in design, manufacturing and distribution of top quality aluminum building products throughout the United States for over 60 years.

ROLL-FORMED CANOPY SYSTEMS



2.5"X12"
W-PAN

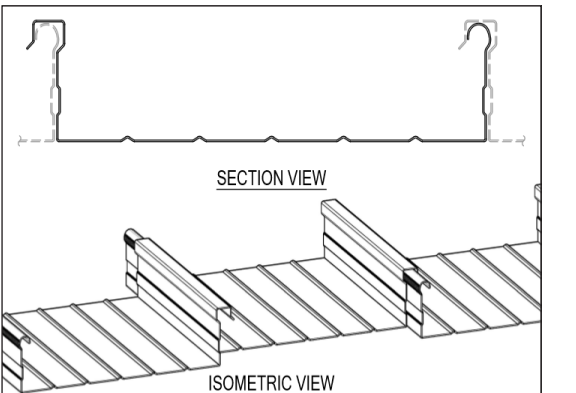
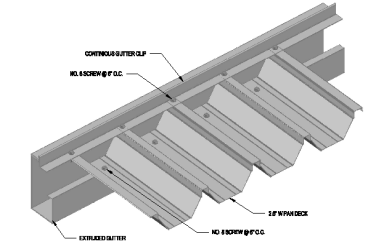


CLEAR SPAN-W-PAN				
PROJ.	.025	.032	.040	STEEL
6.0	79	100	100	99
8.0	44	66	84	55
10.0	28	42	53	35
12.0	---	20	26	24

SECTION PROPERTIES:

MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	STEEL
THICKNESS	0.025"	0.032"	0.040"	26 GAUGE (0.0179")
1. AREA	0.467 IN ²	0.550 IN ²	0.613 IN ²	0.363 IN ²
2. WEIGHT	0.571 PSF	0.702 PSF	0.853 PSF	1.234 PSF
3. MOMENT OF INERTIA	0.431 IN ⁴	0.576 IN ⁴	0.721 IN ⁴	0.321 IN ⁴
4. SECTION MODULUS TOP	0.305 IN ³	0.407 IN ³	0.509 IN ³	0.227 IN ³
5. SECTION MODULUS BOTTOM	0.388 IN ³	0.515 IN ³	0.642 IN ³	0.290 IN ³

- NOTES:**
- ALUMINUM DECK IS FABRICATED FROM ALUMINUM ALLOY 3004-H18.
 - STEEL DECK IS FABRICATED FROM ASTM A1008 STEEL.
 - DECK IS PROVIDED CUT TO LENGTH.
 - SECTION PROPERTIES ARE FOR INFORMATION ONLY. MEMBER DESIGNS ARE OFTEN GOVERNED BY BUCKLING OR DEFLECTION AND THE FULL SECTION CAPACITY MAY NOT BE DEVELOPED.



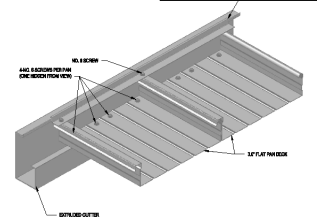
3"X12"
FLAT PAN
SYSTEM

CLEAR SPAN-FLAT PAN				
PROJ.	.025	.032	.040	STEEL
6.0	69	100	100	51
8.0	39	58	77	28
10.0	25	37	49	---
12.0	---	23	29	---

SECTION PROPERTIES:

MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	STEEL
THICKNESS	0.025"	0.032"	0.040"	26 GAUGE (0.0179")
1. AREA	0.443 IN ²	0.550 IN ²	0.620 IN ²	0.363 IN ²
2. WEIGHT	0.578 PSF	0.770 PSF	0.962 PSF	1.485 PSF
3. MOMENT OF INERTIA	0.588 IN ⁴	0.777 IN ⁴	0.971 IN ⁴	0.430 IN ⁴
4. SECTION MODULUS TOP	0.360 IN ³	0.345 IN ³	0.431 IN ³	0.191 IN ³
5. SECTION MODULUS BOTTOM	0.754 IN ³	0.998 IN ³	1.247 IN ³	0.560 IN ³

- NOTES:**
- ALUMINUM DECK IS FABRICATED FROM ALUMINUM ALLOY 3004-H18.
 - STEEL DECK IS FABRICATED FROM ASTM A1008 STEEL.



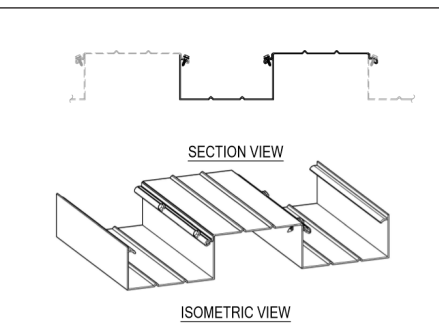
Roll-Formed decking

Available in white, ivory, bronze, clay, black, and silver metallic.

EXTRUDED DECK/CAP



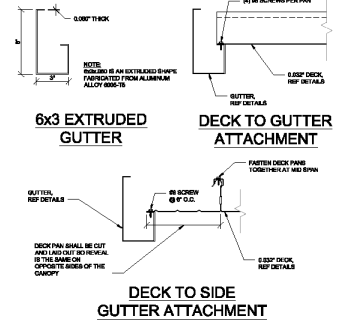
DECK AND CAP		
CLEAR SPAN - Live Load PSF		
PROJ.	SCREWS@12" O.C.	6" O.C.
6.0	61	100
8.0	46	93
10.0	36	64
12.0	30	44



SECTION PROPERTIES:

1. THICKNESS	0.060 IN
2. AREA	1.322 IN ²
3. WEIGHT	1.980 PSF
4. MOMENT OF INERTIA	2.000 IN ⁴
5. SECTION MODULUS TOP	1.400 IN ³
6. SECTION MODULUS BOTTOM	1.220 IN ³

- NOTES:**
- ALUMINUM DECK AND CAP ARE FABRICATED FROM ALUMINUM ALLOY 6063-T6.
 - MAXIMUM STOCK LENGTH IS 24'-0".

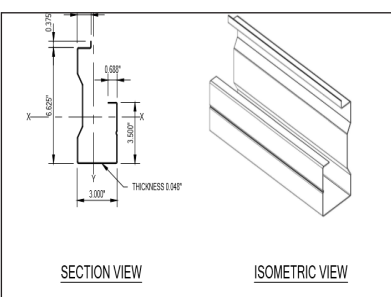


Deck and Cap

White, bronze, black and clear-anodized. Cleat for deck on deck covers in mill finish.

Deck on deck with Cleat

STRUCTURAL GUTTER OPTIONS

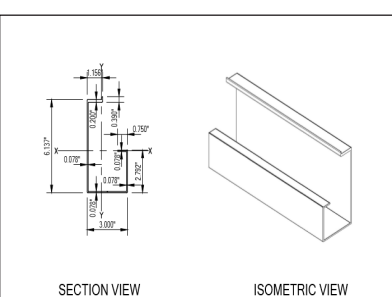


SECTION PROPERTIES COMBINED SECTION:

1. AREA	0.710 SQUARE INCHES
2. WEIGHT	1.076 POUNDS PER FOOT
3. MOMENT OF INERTIA (I _X)	3.707 IN ⁴
4. SECTION MODULUS TOP (I _X)	1.616 IN ³
5. SECTION MODULUS BOTTOM (I _X)	1.601 IN ³
6. RADIUS OF GYRATION (I _X)	2.251 IN
7. MOMENT OF INERTIA (I _Y)	1.030 IN ⁴
8. RADIUS OF GYRATION (I _Y)	1.631 IN
9. TORSION CONSTANT	7.707 IN ⁴
10. POLAR MOMENT OF INERTIA	1.937 IN ⁴

- NOTES:**
- ROLL-FORMED GUTTERS ARE FABRICATED FROM ALUMINUM ALLOY 3004-H18.
 - ROLL-FORMED GUTTERS ARE PROVIDED CUT TO LENGTH.
 - TYPICALLY USED TO SUPPORT DECK BETWEEN COLUMNS.
 - SECTION PROPERTIES ARE FOR INFORMATION ONLY. MEMBER DESIGNS ARE OFTEN GOVERNED BY BUCKLING OR DEFLECTION AND THE FULL SECTION CAPACITY MAY NOT BE DEVELOPED.

.050 Roll-formed gutter
White, ivory, bronze, brown, gray clay, black, wheat, and silver metallic. Pre-formed corners

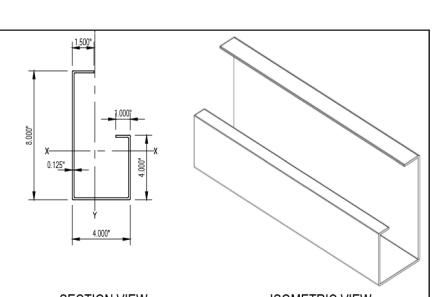


SECTION PROPERTIES COMBINED SECTION:

1. AREA	1.187 SQUARE INCHES
2. WEIGHT	1.488 POUNDS PER FOOT
3. MOMENT OF INERTIA (I _X)	3.94 IN ⁴
4. SECTION MODULUS TOP (I _X)	2.248 IN ³
5. SECTION MODULUS BOTTOM (I _X)	2.248 IN ³
6. RADIUS OF GYRATION (I _X)	2.248 IN
7. MOMENT OF INERTIA (I _Y)	1.65 IN ⁴
8. RADIUS OF GYRATION (I _Y)	1.29 IN
9. TORSION CONSTANT	5.52 IN ⁴
10. POLAR MOMENT OF INERTIA	3.61 IN ⁴

- NOTES:**
- GUTTER IS AN EXTRUDED SHAPE FABRICATED FROM ALUMINUM ALLOY 6063-T6.
 - MAXIMUM STOCK LENGTH IS 25'-0".
 - TYPICALLY USED TO SUPPORT DECK BETWEEN COLUMNS.
 - SECTION PROPERTIES ARE FOR INFORMATION ONLY. MEMBER DESIGNS ARE OFTEN GOVERNED BY BUCKLING OR DEFLECTION AND THE FULL SECTION CAPACITY MAY NOT BE DEVELOPED.

.080 Extruded gutter
White, bronze, black and clear anodized. Pre-formed corners



SECTION PROPERTIES:

1. AREA	2.239 SQUARE INCHES
2. WEIGHT	3.467 POUNDS PER FOOT
3. MOMENT OF INERTIA (I _X)	8.888 IN ⁴
4. SECTION MODULUS TOP (I _X)	3.188 IN ³
5. SECTION MODULUS BOTTOM (I _X)	3.179 IN ³
6. RADIUS OF GYRATION (I _X)	2.46 IN
7. MOMENT OF INERTIA (I _Y)	1.162 IN ⁴
8. RADIUS OF GYRATION (I _Y)	1.683 IN

- NOTES:**
- GUTTER IS AN EXTRUDED SHAPE FABRICATED FROM ALUMINUM ALLOY 6063-T6.
 - MAXIMUM STOCK LENGTH IS 25'-0".
 - TYPICALLY USED TO SUPPORT DECK BETWEEN COLUMNS.
 - SECTION PROPERTIES ARE FOR INFORMATION ONLY. MEMBER DESIGNS ARE OFTEN GOVERNED BY BUCKLING OR DEFLECTION AND THE FULL SECTION CAPACITY MAY NOT BE DEVELOPED.

.125 Extruded gutter
White, bronze, black and clear anodized. Angle kits for corners

