

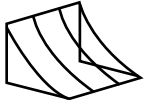
Reference

Need more information? We've got mockups of the most common awning and marine styles or technical guides for calculations and measurements when you need them. Thumb through our index for easy navigation or see additional details on brands, product types, warranties, and more.

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Standard Awning Frame Styles

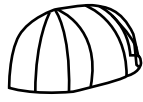
(Courtesy of Professional Awning Manufacturers Association (PAMA), a division of the Industrial Fabrics Association International)



Concave



Dome



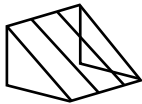
Elongated Dome



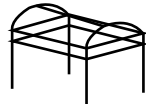
Lateral Arm/
Retractable



Quarter Round/Convex



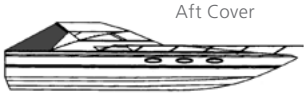
Traditional



Rounded Entrance Canopy

Standard Marine Frame Styles

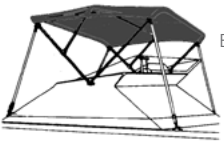
(Courtesy of The Marine Fabricators Association)



Aft Cover



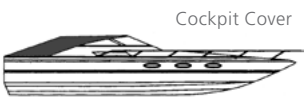
Aft Cover



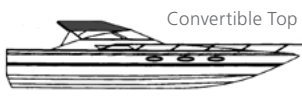
Bimini Top



Dodgers



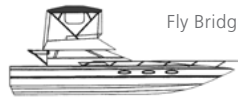
Cockpit Cover



Convertible Top



Enclosure Panel



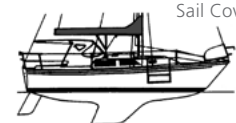
Fly Bridge Bimini



Fly Bridge Cover



Mooring Cover



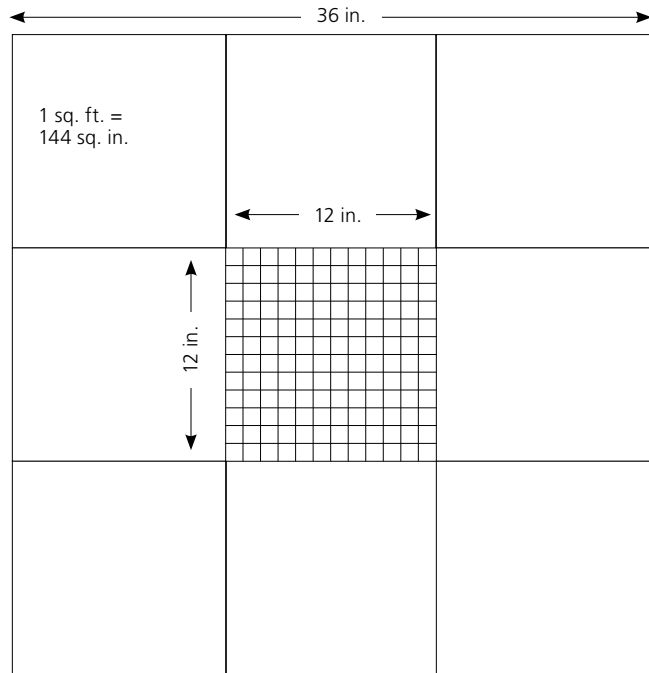
Sail Cover



Windshield Cover

Conversion Chart

A Fabric Width in In.	B Contains this Many Sq. Ft.	C Contains this Many Sq. Yds.
31	7.75	0.86
36	9.00	1.00
40	10.00	1.11
46	11.50	1.28
47	11.75	1.31
48	12.00	1.33
54	13.50	1.50
60	15.00	1.67
61	15.25	1.69
62	15.50	1.72
69	17.25	1.92
72	18.00	2.00
76	19.00	2.11
78	19.50	2.17
80	20.00	2.22
84	21.00	2.33
96	24.00	2.67
98	25.5	2.72
105	26.25	2.92
108	27.00	3.00
118	29.5	3.28
120	30	3.33
126	31.5	3.50
144	36	4.00
150	37.5	4.17
157	39.25	4.36



Handy Tips to Know

- 1 sq. yd. = 9 sq. ft.
- 1 sq. yd. = 1296 sq. in.

To compute the cost per sq. ft. or sq. yd., simply take the price of the goods per linear yd. and divide it by the factor in column B or C.

Handy Tips to Know

- There are 144 sq. in. per sq. ft.
- There are 9 sq. ft. per sq. yd.
- There are 1296 sq. in. per sq. yd.

Common Cloth Calculations

To Find Pro Rata Price

(Knowing the price per yd. of a given width of cloth, what would be the pro rata price of the same cloth woven in another width?)

Example: If 46 in. cloth is priced at \$7.00 per yd., what would the pro rata price be in the same cloth woven 60 in. wide?

Formula:

$$\frac{\text{Known Width}}{\text{Known Price}} = \frac{\text{Desired Width}}{\text{Desired Price}}$$

Or $\frac{46}{\$7.00} = \frac{60}{x} : \frac{60 \times \$7.00}{46} = x : \frac{420}{46} = x = \9.13

To Find Pro Rata Wt. Expressed in Oz. per Linear Yd.

(Knowing the width and oz. per linear yd. of a given cloth, what would be the wt. of the same cloth woven in another width?)

Example: What is the pro rata wt. of 36 in. 12 oz. S.F. Duck woven 44 in. wide?

Formula: $\frac{\text{Known Width}}{\text{Known Price}} = \frac{\text{Desired Width}}{\text{Desired Price}}$

$\frac{36}{12} = \frac{44}{x} : \frac{12 \times 44}{36} = x : \frac{528}{36} = x = \14.67

Or

To Find Pro Rata Wt. Expressed in Yds. per Lb.

(Knowing the width and linear yds. per lb. of a given cloth, what would be the wt. of the same cloth woven in another width?)

Example: What is the pro rata wt. of 36 in. 6.15 yd. sheeting woven 45 in. wide?

Formula:

$$\frac{36 \times 6.15}{45} = x : \frac{221.4}{45} = x = 4.92 \text{ yd.}$$

Or

To Find the Oz. Wt. per Linear Yd. of Number Ducks

(Knowing the number designation of a wide duck, what does it weigh in oz.?)

Example: What is the linear yd. oz. wt. of 22 in. No. 4 Duck?

Formula: 19 less the number of the Duck equals its oz. wt. in 22 in. width or: $19 - 4 = 15 \text{ oz.}$

The rule-of-thumb formula holds true for all numbers of Duck, 1 through 12 inclusive. To figure 22 in. oz. wt. for Number Ducks, to 19 add one less than number.

Example: 22 in. No. 7/0 wts. 25 oz. or 19 plus 6.

Having established the 22 in. oz. wt. of a number Duck, the linear yd. wt. of any other width can be determined by a pro rata calculation.

Conversion of Yds. per Lb. to Oz. per Yd.

(Knowing the wt. of a given cloth in yd. per lb., what is the wt. expressed in oz. per yd.?)

Example: What is the wt. of oz. per yd. of 37 in. 2.75 yd. drill?

Formula: $\frac{16 \text{ oz. (1 lb.)}}{\text{yds. per lb.}} = \text{oz. per yd.}$

Or $\frac{16}{2.75} = 5.818 \text{ oz.}$

Conversion of Oz. per Yd. to Yds. per Lb.

(Knowing the wt. of a given cloth in oz. per yd., what is the wt. expressed in yds. per lb.?)

Example: What is the wt. in yds. per lb. of 36 in. 10 oz. S.F.?

Formula:

$$\frac{16}{10} = 1.6 \text{ yd. per lb.}$$

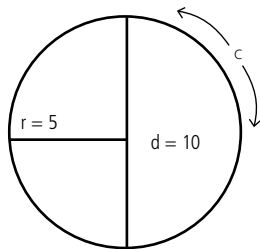
Or

Mathematical Aids

To determine the cost of covering any flat surface, first compute its area in square measure. You can compute the area of almost any shape by using the following formulas. For odd shaped areas, it may be necessary to combine several of these formulas.

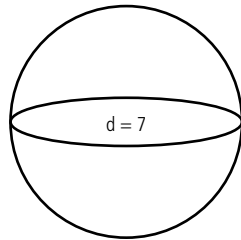
A = Area
SA = Surface Area
C = Circumference

CIRCLE
 $A = \pi r^2$
 $A = 3.1416 \times 5 \times 5$
 $A = 78.54$

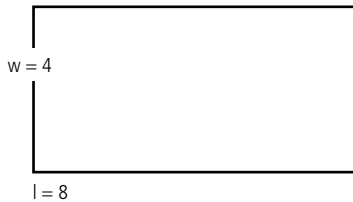


Note:
 $d = 2r$
 $c = \pi d$
 $c = 3.1416 \times 10$
 $c = 31.416$

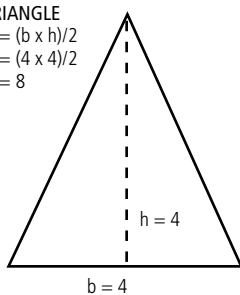
SPHERE
 $SA = \pi d^2$
 $SA = 3.1416 \times 7 \times 7$
 $SA = 153.94$



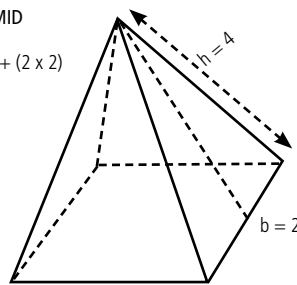
RECTANGLE
 $A = l \times w$
 $A = 8 \times 4$
 $A = 32$



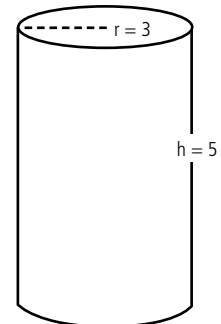
TRIANGLE
 $A = (b \times h)/2$
 $A = (4 \times 4)/2$
 $A = 8$



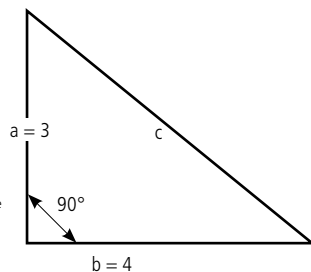
4-SIDED PYRAMID
 $SA = 2bh + b^2$
 $SA = (2 \times 2 \times 4) + (2 \times 2)$
 $SA = 20$



CYLINDER
 $SA = 2\pi r^2 + 2\pi rh$
 $SA = (2 \times 3.1416 \times 3 \times 3) + (2 \times 3.1416 \times 3 \times 5)$
 $SA = 56.55 + 94.25$
 $SA = 150.8$



PYTHAGOREAN THEOREM
 $c^2 = a^2 + b^2$
 $c^2 = (3 \times 3) + (4 \times 4)$
 $c^2 = 25$
 $c = 5$



In a right triangle, the square of the hypotenuse (the longest side) is equal to the sum of the squares of the other two sides.

Linear Measure

English	Metric
12 in. = 1 ft.	10 mm = 1 cm
3 ft. = 1 yd.	100 cm = 1 m
36 in. = 1 yd.	1000 mm = 1 m

English/Metric Equivalents

English	Metric
1 in. = 25.4 mm	1 mm = .0397 in.
1 in. = 2.54 cm	1 cm = .3937 in.
1 in. = .0254 m	1 m = 39.37 in.
1 yd. = .9144 m	1 m = 1.0936 yd.

Square Measure

English	Metric
144 sq. in. = 1 sq. ft.	100 sq. mm = 1 sq. cm
9 sq. ft. = 1 sq. yd.	10,000 sq. cm = 1 sq. m
1296 sq. in. = 1 sq. yd.	1,000,000 sq. mm = 1 sq. m

English/Metric Equivalents

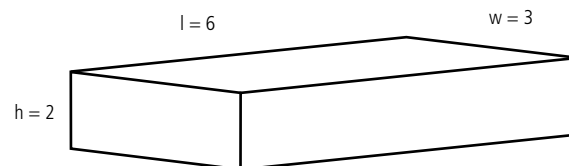
1 sq. yd. = .836 sq. m	1 sq. m = 1.196 sq. yd.
1 sq. in. = .0006451 sq. m	1 sq. m = 1550 sq. in.

Decimal Equivalents

1/16 = .0625	9/16 = .5625
1/8 = .1250	5/8 = .6250
3/16 = .1875	11/16 = .6875
1/4 = .2500	3/4 = .7500
5/16 = .3125	13/16 = .8125
3/8 = .3750	7/8 = .8750
7/16 = .4375	15/16 = .9375
1/2 = .5000	

RECTANGULAR PRISM

$SA = 2(lw + hl + hw)$
 $SA = 2 \times [(6 \times 3) + (2 \times 6) + (2 \times 3)]$
 $SA = 72$



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Terms of Sale

No Warranties; Exclusion of Liability

All goods sold by TRIVANTAGE, LLC ("Trivantage") are PROVIDED "AS-IS" AND WITHOUT ANY WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. Trivantage assumes no liability for results of the use of goods purchased from Trivantage, including, without limitation, their use in combination with other components, assemblies or products, or their suitability or unsuitability for a particular use or a particular environment. Unless specifically indicated to the contrary, goods sold are not fire retardant and should not be exposed to intense heat or flame. Unless specifically indicated to the contrary, goods sold are not water resistant or waterproof. Trivantage neither undertakes to independently test nor makes any representation or warranty with respect to any manufacturer's claims for performance for its products, including the claims of a manufacturer that its product is fire retardant, water resistant or waterproof. Any warranty given by any other manufacturer or supplier of goods sold or of component parts thereof is assigned by Trivantage to the Buyer to the extent permissible under law and the terms of such warranty. **WITHOUT LIMITING THE FOREGOING, TRIVANTAGE SHALL IN NO EVENT BE LIABLE FOR LOSS OF USE OR PROFIT, OR FOR OTHER COLLATERAL, INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES.**

Orders - Acceptance, Modification and Cancellation

All orders are subject to acceptance by Trivantage, and when so accepted shall constitute a contract. All orders are accepted subject to these Terms of Sale and, if Buyer is approved for purchasing on credit, subject to approval by Trivantage of the Buyer's credit at the time of shipment. Trivantage's acceptance of an order is conditioned upon the waiver by Buyer of any terms and conditions which differ from, vary from, or add to, these Terms of Sale, which shall constitute the entire agreement of the parties as to the subject matter hereof. The specifications applicable to goods sold by Trivantage shall be Trivantage's specifications, unless Buyer shall have furnished different specifications and Trivantage shall have agreed in writing to such specifications. Trivantage reserves the right to make changes or substitutions in the items ordered without the prior approval of or notification to the Buyer, as long as such changes do not adversely affect form, fit or function requirements. Orders may not be altered or modified by the Buyer except with the written consent of Trivantage. Trivantage, at its option, may cancel all or the remaining unfilled portion of any blanket or continuing order if (a) Buyer's payments are in default; (b) Buyer breaches any material provision of Trivantage's Terms of Sale; (c) substantial changes in materials or supplies occur; (d) causes beyond Trivantage's control make it impossible to ensure shipment; (e) Buyer becomes insolvent or is subject to a petition in bankruptcy; or (f) Trivantage withdraws its credit approval of Buyer. The Buyer may cancel the remaining unfilled portion of any blanket or continuing order upon written notice to Trivantage and payment of reasonable cancellation charges, which charges shall take into account goods already produced or in process, expenses incurred by Trivantage in connection with the order, and commitments made by Trivantage, as a consequence of the order; provided, however, that the cancellation charges shall not exceed the purchase price of the cancelled portion of the order.

Trademarks

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Price and Terms

ALL QUOTED PRICES ARE BASED ON THE CURRENT NET WHOLESALE PRICES IN U.S. FUNDS PREVAILING AT THE TIME OF QUOTATION. ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE AND THE PRICE CHARGED WILL BE THAT IN EFFECT AT THE TIME OF SHIPMENT. A minimum order charge may apply.

Customers without established credit approval from the Trivantage credit department should remit payment with the order, or instruct Trivantage to ship C.O.D. for an extra fee. For Buyers approved by the Trivantage credit department, Buyer must pay Trivantage within thirty (30) days of the invoice date. A service charge of 1-1/2% per month (18% per annum) or the maximum amount allowed by applicable law will be added to all past due invoices. Buyer is responsible for payment of all applicable sales, use or other taxes, whether local, state or federal, with respect to the goods purchased, or returning to Trivantage the properly completed and signed sales tax exemption form. Buyer is responsible for any import or export charges.

Shipping and Delivery

Trivantage shall not be liable for delays in production or delivery due to causes beyond its control, including but not limited to acts of God, acts of Buyer, acts of civil or military authorities, priorities, fires, strikes, floods, epidemics, quarantines, war, delays in transportation and inability due to causes beyond

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Trivantage's control to obtain necessary labor, materials or manufacturing facilities. A shipping date given by Trivantage is an estimated date. In no event shall Trivantage be liable to the Buyer for loss of use or profit or any other collateral, incidental, punitive, special or consequential damages resulting from delays in production or delivery, whether or not due to causes beyond Trivantage's control.

Trivantage will use its best judgment in packaging, packing, shipping and routing unless Buyer gives specific instructions with its order. In the event of shortage or damage incurred enroute, Buyer must make its complaint to the delivering transportation agency and file a claim against such agency. In the event of a shortage in packing, any claim against Trivantage must be made in writing within ten (10) days of receipt of the merchandise. All shipments are made Ex Works Trivantage facility, unless otherwise agreed to in writing by Trivantage. Trivantage's responsibility for delivery ends with a signed bill of lading from the carrier. All risk of loss after Trivantage's delivery to the carrier shall be borne by the Buyer.

Returns of Goods from Non-Special Purchase Orders

Trivantage will accept returns of goods from non-Special Purchase Orders purchased from Trivantage for up to 60 days from the date of invoice, subject to the following conditions:

1. Buyer must obtain an authorization from Trivantage prior to the return of any goods;
2. All returns are subject to a restocking fee of \$15.00 or 15% handling charge (whichever is greater, not to exceed a total of \$125.00);
3. No returns on fabric will be allowed if the goods have been altered, cut or combined with any other goods;
4. Goods must be returned in original packaging and be in the original condition; and
5. Buyer is responsible for the cost of return shipping to Trivantage, and for arranging the return shipment. If Buyer requests that Trivantage facilitate the return, and Trivantage agrees to facilitate the return, a return shipping charge of (a) 5% of the price paid for the goods returned, or (b) Trivantage's less-than-truckload shipping amount, whichever is higher, will be imposed on the Buyer.

Trivantage does not take title to returned items until the item arrives at a Trivantage facility. In no event shall the Buyer be entitled to any right of set-off against Trivantage.

TRIVANTAGE DOES NOT ACCEPT RETURNS OF GOODS FROM SPECIAL PURCHASE ORDERS. A Special Purchase Order is any order that requires Trivantage to obtain a quote from a manufacturer, or any order that requires Trivantage to place a custom order with a manufacturer.

Miscellaneous

If any goods or services ordered by Buyer are supplied by Trivantage in accordance with designs or specifications of the Buyer, and such goods are not Trivantage's standard items or supplied in accordance with Trivantage's standard processes, Buyer shall indemnify Trivantage from any expense, loss, damage or liability which may be incurred by Trivantage on account of any

infringement or alleged infringement of any U.S. or foreign patent rights with respect to such goods or processes. The sale of goods by Trivantage does not convey a license, express or implied, under any patent in which Trivantage has an interest, nor does it convey rights to any descriptive data, including Trivantage's manufacturing drawings, processes or tooling.

THE PARTIES AGREE THAT THIS AGREEMENT, ANY SALES HEREUNDER, OR ANY CLAIM, DISPUTE OR CONTROVERSY BETWEEN TRIVANTAGE AND BUYER ARISING FROM OR RELATING TO THIS AGREEMENT, SHALL, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, BE GOVERNED BY THE LAWS OF THE STATE OF NORTH CAROLINA, WITHOUT REGARD TO CONFLICTS OF LAWS RULES.

Buyer irrevocably submits to the exclusive jurisdiction of the state and federal courts of the State of North Carolina for the resolution of any legal action arising out of this Agreement and irrevocably agrees that venue for such legal action shall lie exclusively in Alamance County, North Carolina, for any state court action, or in the Middle District of North Carolina for any action instituted within the federal court system.

Any provision hereunder that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction.

If the goods purchased are to be used in fulfilling a contract or a subcontract either with the U.S. Government or any agency thereof, Trivantage will comply with all mandatory provisions of the Government applicable to Trivantage if and only if Buyer gives Trivantage written notice of such provisions in sufficient time to permit compliance. In addition, Trivantage may, at its option, adopt any provisions of the Armed Services Procurement Regulations or other federal laws or regulations applicable to or made available to subcontractors in the prime contract.

