

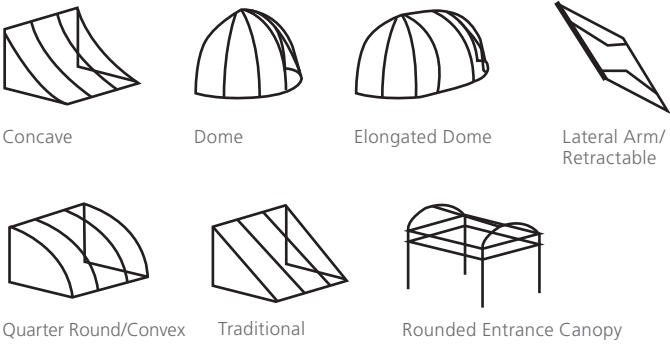
REFERENCE

Need more info? Find digital mockups of the most common awning and marine styles. Or technical guides for calculations and measurements. Thumb through our index for easy navigation. Or see additional details on brands, product types, warranties, and more.

STANDARD AWNING AND MARINE FRAME STYLES	344
CALCULATIONS AND MEASUREMENTS	345
INDEX	348
TERMS OF SALE	357
NOTES	359

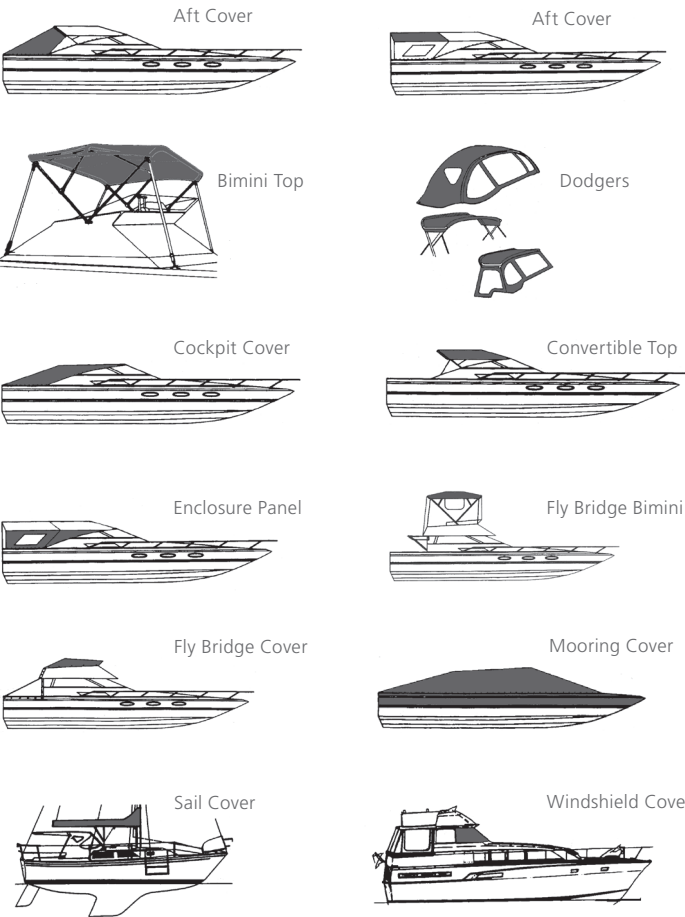
Standard Awning Frame Styles

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



Standard Marine Frame Styles

(Courtesy of The Marine Fabricators Association)



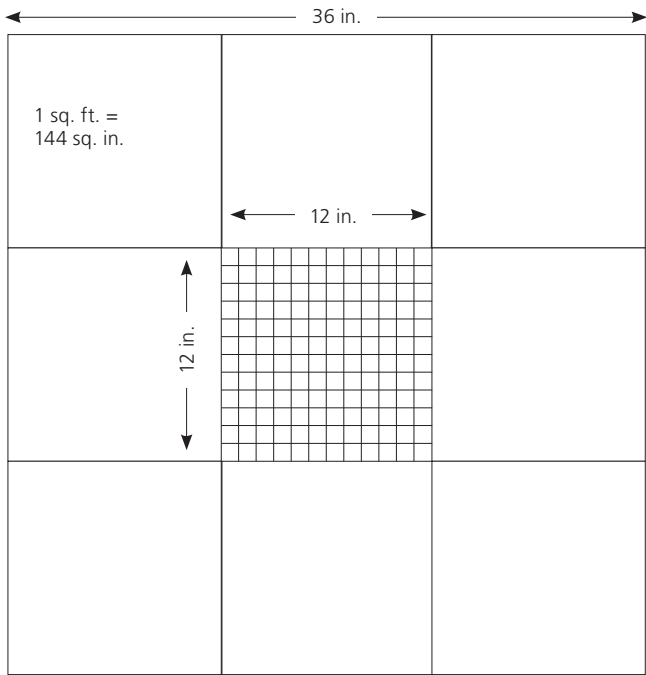
Conversion Chart

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
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

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.



Handy Tips to Know

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

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:

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

Or

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

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:

$$\frac{\text{Known Width} \times \text{Known Weight}}{\text{Desired Width}} = \text{Desired Weight}$$

Or

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

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: $19 - 4 = 15$ 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:

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

Or

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

(From "Swirles on Basic Fabrics" copyright 1957)

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.

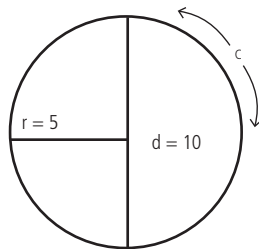
A = Area
SA = Surface Area
C = Circumference

CIRCLE

$$A = \pi r^2$$

$$A = 3.1416 \times 5 \times 5$$

$$A = 78.54$$



Note:

$$d = 2r$$

$$C = \pi d$$

$$C = 3.1416 \times 10$$

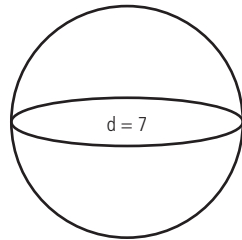
$$C = 31.416$$

SPHERE

$$SA = \pi d^2$$

$$SA = 3.1416 \times 7 \times 7$$

$$SA = 153.94$$

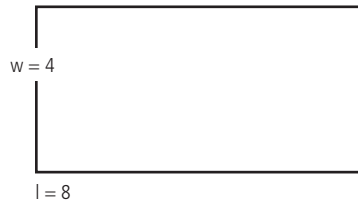


RECTANGLE

$$A = l \times w$$

$$A = 8 \times 4$$

$$A = 32$$

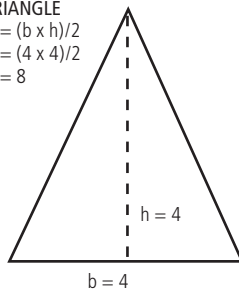


TRIANGLE

$$A = (b \times h)/2$$

$$A = (4 \times 4)/2$$

$$A = 8$$

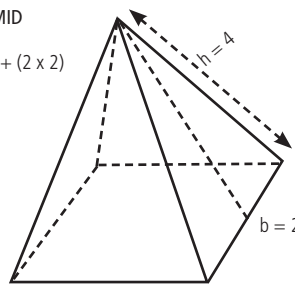


4-SIDED PYRAMID

$$SA = 2bh + b^2$$

$$SA = (2 \times 2 \times 4) + (2 \times 2)$$

$$SA = 20$$



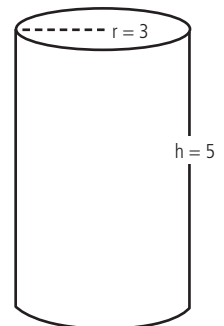
CYLINDER

$$SA = 2\pi r^2 + 2\pi rh$$

$$SA = (2 \times 3.1416 \times 3 \times 3) + (2 \times 3.1416 \times 3 \times 5)$$

$$SA = 56.55 + 94.25$$

$$SA = 150.8$$



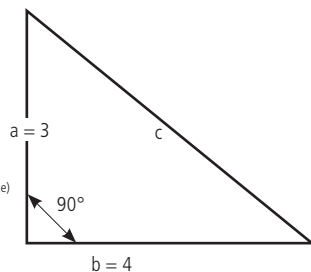
PYTHAGOREAN THEOREM

$$c^2 = a^2 + b^2$$

$$c^2 = (3 \times 3) + (4 \times 4)$$

$$c^2 = 25$$

$$c = 5$$



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

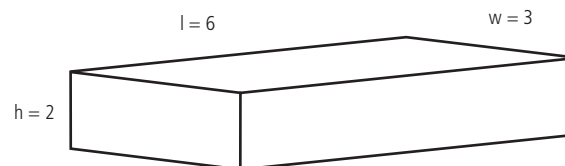
1/16 = .0625	9/16 = .5625
1/8 = .1250	5/8 = .6250
3/16 = .1875	11/16 = .6875
1/4 = .2500	3/4 = .7500
5/16 = .3125	13/16 = .8125
3/8 = .3750	7/8 = .8750
7/16 = .4375	15/16 = .9375
1/2 = .5000	

RECTANGULAR PRISM

$$SA = 2(lw + hl + hw)$$

$$SA = 2 \times [(6 \times 3) + (2 \times 6) + (2 \times 3)]$$

$$SA = 72$$



Numerical

210® Plastic Cleaner And Polish	169
210® Plus Plastic Scratch Remover	169
303® Aerospace Protectant™	169
303® Clear Vinyl Protective Cleaner	170
303® Fabric Guard™	171
303® Multi-Surface Cleaner™	170
303® Spot Cleaner	170

A

ACW Cam Buckles	220
ACW Side Release Buckles	219
Anchor – Pool Cover	259
APCO FabClean™ Green	172
APCO VinylClean Plus™	171
APCO Vinyl Protector	172
Aqualon® Edge	56
Aqualon® Edge Binding	302
Aqualon® Edge Soft	57
Aqualon® Edge Soft Warranty	112
Aqualon® Edge Warranty	112
Architec 400®	95
Architec 400® Warranty	112
Architent®	109
Awl – Automatic	278
Awl – Heavy-Duty Scratch No. 4	278
Awning Composer	30
Awning Hardware – Bracket Hinge	194
Awning Hardware – Bracket Hinge – Aluminum	190
Awning Hardware – Camelback Hinge – Zinc Die-Cast	194
Awning Hardware – Elbow	186
Awning Hardware – Elbow – Aluminum	186
Awning Hardware – Extra Projection Hinge	195
Awning Hardware – Eye End – Aluminum	187
Awning Hardware – Eye End – Malleable Iron	187
Awning Hardware – Front Bar Clamp – Aluminum	188
Awning Hardware – Head Rod Clamp – For Brick Or Stone – Aluminum	190
Awning Hardware – Head Rod Clamp – For Narrow Base Installation – Aluminum	190
Awning Hardware – Head Rod Clamp – For Wood – Aluminum	190
Awning Hardware – Head Rod Clamp – Narrow Base Type – Zinc	189
Awning Hardware – Head Rod Clamp – Roller Curtain Type –	189
Awning Hardware – Head Rod Clamp – Zinc Die Cast	189
Awning Hardware – Hinge – Stamped Steel	195
Awning Hardware – Jaw End With Lag Screw	195
Awning Hardware – Pin Or Nut End	187
Awning Hardware – Pipe Clamp – Wrought Steel	194
Awning Hardware – Pulley – Malleable Iron	191
Awning Hardware – Rod And Rafter Holder No. 4	190
Awning Hardware – Rod And Rafter Holders – Dual Duty – Aluminum	191
Awning Hardware – Rod And Rafter Holders – For Brick Or Wood – Aluminum ..	191
Awning Hardware – Round Head Machine Screw	194
Awning Hardware – Slip-Fit Adjustable Front Bar	189
Awning Hardware – Slip-Fit Adjustable Post Socket – For Brick – Aluminum ..	192

Awning Hardware – Slip-Fit Adjustable Post Socket – For Brick – Malleable Iron ..	192
Awning Hardware – Slip-Fit Adjustable Post Socket – For Wood – Malleable Iron	192
Awning Hardware – Slip-Fit Coupling – Malleable Iron	192
Awning Hardware – Slip-Fit Eye End – Aluminum	188
Awning Hardware – Slip-Fit Eye End – Malleable Iron	188
Awning Hardware – Slip-Fit Rafter And Upright Tees	193
Awning Hardware – Slip-Fit Square Elbow – Malleable Iron	187
Awning Hardware – Slip-Fit Tee – Malleable Iron	193
Awning Hardware – Slip-Fit Tie Down Clamp – Aluminum	191
Awning Hardware – Slip-Fit Tie Down Clamp – Steel	191
Awning Hardware – Spear Head	193
Awning Hardware – Spear Head – Aluminum	194
Awning Hardware – Swivel Eye Pulley – Aluminum Die Cast	190
Awning Hardware – Swivel Eye Pulley – Stamped	191
AwnTex® 70	74
AwnTex® 70 and 160 Warranty	112
AwnTex® 160	75

B

Backing – Cut-Away	295
Backing – Tear-Away	295
Bendarc Quick-Switch Bender	290
BetterVue™	106
Bimini Bow Frames	239
Binder	278
Binding – Vinyl – 300 Series	305
Binding – Vinyl – Imperial	304
Block-It® Matrix	99
Boat Top Fittings – Aluminum – Boat Cover Socket	237
Boat Top Fittings – Aluminum – Deck Mounting Hinge	238
Boat Top Fittings – Aluminum – Insert Eye End	237
Boat Top Fittings – Aluminum – Jaw Slide	238
Boat Top Fittings – Aluminum – Pontoon Deck Hinge	238
Boat Top Fittings – Aluminum – Pontoon H Bracket	238
Boat Top Fittings – Aluminum – Pontoon Jaw Slide	238
Boat Top Fittings – Aluminum – Slip Fit Eye End	237
Boat Top Fittings – Aluminum – Tower Clamp	238
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Angle Hinge	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Boat Cover Socket	241
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Coaming Side Plate	239
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Deck Hinge	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Deck Mounting Hinge	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Eye Strap	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Insert Eye End	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Jaw Slide	240
Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Slip-Fit Eye End	240
Boat Top Fittings – Nickel-Plated Brass – Adjuster Buckle	241
Boat Top Fittings – Nickel-Plated Brass – Eye Strap	241
Boat Top Fittings – Nickel-Plated Brass – Solid Eye Snap Hook	241
Boat Top Fittings – Nylon – Bimini Top Ladder Clip	241
Boat Top Fittings – Nylon – Bow Socket	243
Boat Top Fittings – Nylon – Curved Shim	242
Boat Top Fittings – Nylon – Double Wing Windshield Latch	243
Boat Top Fittings – Nylon – Eye End	242

Boat Top Fittings – Nylon – Eye Strap	242
Boat Top Fittings – Nylon – Hinge	242
Boat Top Fittings – Nylon – Jaw Slide	243
Boat Top Fittings – Nylon – Lashing Hook	243
Boat Top Fittings – Nylon – Mounting Plate	243
Boat Top Fittings – Nylon – Rigid Support Clip	242
Boat Top Fittings – Nylon – Side Curtain Spacer	243
Boat Top Fittings – Nylon – Vadney Clip	242
Boat Top Fittings – Nylon – Wedge	242
Boat Top Fittings – Rubber Gasket	243
Boat Top Fittings – Stainless Steel – Bolster Clip	253
Boat Top Fittings – Stainless Steel – Push Button	253
Boat Top Fittings – Stainless Steel Type 303/304 – Pull Pin	246
Boat Top Fittings – Stainless Steel Type 304 – Adjuster Buckle	246
Boat Top Fittings – Stainless Steel Type 304 – Dee Ring	246
Boat Top Fittings – Stainless Steel Type 304 – Hinge/Set Screw	246
Boat Top Fittings – Stainless Steel Type 304 – Lift Ring	246
Boat Top Fittings – Stainless Steel Type 304 – Snap Hook	246
Boat Top Fittings – Stainless Steel Type 316 – Adjuster Buckle	252
Boat Top Fittings – Stainless Steel Type 316 – Angle Hinge	248
Boat Top Fittings – Stainless Steel Type 316 – Ball Eye End	247
Boat Top Fittings – Stainless Steel Type 316 – Coaming Pad Hook and Eye Set ..	253
Boat Top Fittings – Stainless Steel Type 316 – Concave Hinge	248
Boat Top Fittings – Stainless Steel Type 316 – Counter Bore Eye End	247
Boat Top Fittings – Stainless Steel Type 316 – Deck Hinge	249
Boat Top Fittings – Stainless Steel Type 316 – Double-Sided Jaw	250
Boat Top Fittings – Stainless Steel Type 316 – Elbow Eye End	253
Boat Top Fittings – Stainless Steel Type 316 – Eye End	247
Boat Top Fittings – Stainless Steel Type 316 – Eye Strap	247
Boat Top Fittings – Stainless Steel Type 316 – Grab Handles	248
Boat Top Fittings – Stainless Steel Type 316 – Heavy-Duty Jaw Slide	251
Boat Top Fittings – Stainless Steel Type 316 – Hinged Jaw Slide	250
Boat Top Fittings – Stainless Steel Type 316 – Hinged Tee	253
Boat Top Fittings – Stainless Steel Type 316 – Hinge/Set Screw	248
Boat Top Fittings – Stainless Steel Type 316 – Humpback Eye End	247
Boat Top Fittings – Stainless Steel Type 316 – Humpback Jaw Slide	251
Boat Top Fittings – Stainless Steel Type 316 – Insert Eye End	247
Boat Top Fittings – Stainless Steel Type 316 – Jaw Slide	251
Boat Top Fittings – Stainless Steel Type 316 – Jaw Slide For Pop Rivet	251
Boat Top Fittings – Stainless Steel Type 316 – Lashing Hook	250
Boat Top Fittings – Stainless Steel Type 316 – Locking Rail Hinge	250
Boat Top Fittings – Stainless Steel Type 316 – Plug	253
Boat Top Fittings – Stainless Steel Type 316 – Post	249
Boat Top Fittings – Stainless Steel Type 316 – Pull Pin	252
Boat Top Fittings – Stainless Steel Type 316 – Push Button	252
Boat Top Fittings – Stainless Steel Type 316 – Quick Release Pin	252
Boat Top Fittings – Stainless Steel Type 316 – Rail	251
Boat Top Fittings – Stainless Steel Type 316 – Side Deck Plate Hinge	250
Boat Top Fittings – Stainless Steel Type 316 – Side Mount Hinge	250
Boat Top Fittings – Stainless Steel Type 316 – Side Mount with	252
Boat Top Fittings – Stainless Steel Type 316 – Slip Tee	253
Boat Top Fittings – Stainless Steel Type 316 – Snap Hook	252
Boat Top Fittings – Stainless Steel Type 316 – Socket	249
Boat Top Fittings – Stainless Steel Type 316 – Socket Jaw Slide	251
Boat Vent 3	257
Boat Vent Circle Cutter	258

Boat Vent II	257
Boat Vents	257
Bobbins – A&E Poly Nu Bond™ Polyester	320
Bobbins – A&E SunStop®	320
Bobbins – Aqua-Seal™	317
Bobbins – Coats Dabond® Belbobs®	318
Bobbins – Coats Polymatic® Belbobs® Bonded Monocord Dacron®	318
Bobbins – Coats Ultra Dee® Polyester	318
Bobbins – PremoBond Bonded Polyester	319
Bobbins – Premofast™	320
Bow Slats – Fiberglass	239
Bracket – L	201
Bracket – Z	200
Braid – Nylon/Polyester Elastic	326
Braid – Polyester	299
Buckles – For Nylon Or Polyester Webbing	217
Buckles – “Push-Button”	216
Buckles – Single Bar	217
Buckles – Tongueless	217
Bullion Fringe – Blended Polyester	297

C

California Oxford Cloth	73
Canton Flannel Natural – Untreated	105
Canvak	176
Canvex®	73
Care and Cleaning Instructions for Selected Fabrics	111
Chain – Double Loop Steel	199
Chair Duck	104
Clearco 444	166
Clear Double-Polished Vinyl Rolls	64
Clear Double-Polished Vinyl Rolls – Flame Retardant	64
Cleat – Awning	199
Clip And Dee	217
Commercial 95® 340	97
Commercial 95® 340 Warranty	114
Commercial FR 300	97
Commercial FR 300 Warranty	113
Commercial Heavy 430	98
Commercial Heavy 430 Warranty	114
Comshade® Xtra	97
Comshade® Xtra Warranty	115
Comtex®	95
Comtex® Warranty	116
Cooley-Brite®	28
Cooley-Brite® / Cooley-Brite® Lite Warranty	116
Cooley-Brite® II with Coolthane® EPS	28
Cooley-Brite® II with Coolthane® EPS Warranty	117
Cooley-Brite® Lite	29
Cool Glo™ / Northstar®	27
Cool Glo™ / Northstar® Warranty	116
Cord – Cone Spring Hooks	340
Cord – Corsair Diamond Braid Polyester	333
Cord – Cotton Lacing	333
Cord – Crown Cotton	334

REFERENCE INDEX

Cord – Diamond Braided MFP	335
Cord – Diamond Braided Nylon	334
Cord – Diamond Braided Nylon Utility	335
Cord – Drawtite Cotton	335
Cord – Hog Ring Pliers	341
Cord – Hollow Braided Polypropylene	336
Cord – Loop And End Clamps	341
Cord – MFP Solid Braided Polypropylene	336
Cord – Neobraid® Polyester	336
Cord – Neoline® Polyester	337
Cord – Nylon Shock	339
Cord – Plier Clamp	341
Cord – Premium Sash	334
Cord – Saxon Nylon	338
Cord – Single Cover Elastic	340
Cord – Solid Braided Nylon	338
Cord – Solid Braided Polyester	337
Cord – Synthetic Shock	340
Cord – Twisted S.F.T. Polypropylene	338
Coverlight® CSM Coated Nylon	100
Coverlight® Neoprene® Coated Nylon	100
Covershade™	107
Covershade™ Warranty	118
Crownarc Crown Bender	291
CrystalClear	66
Curtain Loop – Shower/Bath	199
Cutter – Side Cutter	288
Cutter – Special Cutter	288
Cutter – Tubing	287
Cutting Pad	290

D

Dacron® Sailcloth and Cover Cloth	64
Dacron® Tape	64
DecoFlex WireFree™ RTS	158
Dee Ring – Nickel Plated	218
Dee Ring – Zinc Die-Cast	218
Dee Ring – Zinc Plated	218
Dickson® Arcade FR	24
Dickson® LAC 650 SL	23
Dickson® North American Collection Jacquards	17
Dickson® North American Collection Solids	15
Dickson® North American Collection Stripes	16
Dickson® North American Collection Warranty	118
Dock Seal	100
DOT® Baby Durable™	222
DOT® Common Sense® / Curtain Fasteners	223
DOT® Durable™	226
DOT® Durable™ Blind Rivet Stud	224
DOT® Durable™ Enamel	225
DOT® Durable™ Mariner™	226
DOT® Durable™ Stainless	230
DOT® Lift-The-Dot®	232
DOT® Pull-The-Dot®	234
DOT® Snapmaster M840	279

Double-Filled Pre-Shrunk Bleached Duck	104
DrillSteady Drill For Stainless Tubing	278
Duvetyne	108

E

Emseal UST Awning/Sign Sealant Tape	202
Energy Shield™ 1	02
Engel Hot Knife	283
Eradicating Fluid	29
Eradi-Lite®	27
Eradi-Lite® Warranty	119
Evolution®	99
E-Z Lace Supreme®	216

F

Fabric Fastener Kit	280
Fasnap® Fasteners	231
Fasnap® PM5 Grommet Machine	283
Fasnap® Rib Tree Bolster Fasteners	231
Fastex® Barreloc	220
Fastex® Cam Buckle	220
Fastex® D-Ring	221
Fastex® Ellipse Cordloc	220
Fastex® Ladderloc™	220
Fastex® Looploc	221
Fastex® Sewable Grommet	221
Fastex® Shock Cord Hook	221
Fastex® Side Release Buckle	219
Fastex® Triglide™ 3 Bar Slide	221
Firesist®	17
FIRESIST® Warranty	119
Flag – Nylon	99
Fluorescent Eggcrate Louvers	200
Footman Loop	217
FR Comshade®	96
FR Comshade® Warranty	120
Fyrguard™ Fire and Water-Resistant Cover Duck	102

G

Gatorshield® – Galvanized Finish Steel Tubing	211
Gatorshield® – Galvanized Finish Steel Tubing Reference Guide	210
Gatorshield® – Touch Up Paint	211
Gatorshield® – Tubing Plug	211
General Care and Cleaning Instructions for Selected Fabrics	111
GlassClear® Double-Polished Vinyl Rolls	65
GlassClear® Double-Polished Vinyl Rolls – Flame Retardant	66
GlassClear® Extruded Vinyl	66
GlassClear® SR	65
Goldline® EPDM Tie-Down And Tarp Strap	261
Grommet Kit – Home	289
Grommets – DOT® Rolled Rim with Spur Washer	213
Grommets – DOT® Self-Piercing Rolled Rim with Spur Washer	215
Grommets – DOT® Self-Piercing with Plain Washer	215

Grommets – DOT® Special Brass And Washers	215
Grommets – DOT® with Plain Washer	211
Grommets – DOT® with Tooth Washer	213
Grommets – Self-Piercing Rolled Rim with Spur Washer	216
Grommets – Self-Piercing with Plain Washer	216
Grommets – Sharpened Edge with Small Tooth Locking Channel Washer	216
Gudgeon – Square Hole	195

H

Hammer – Dead Blow	289
Hammer – Magnetic Tack	290
Hammer – Rawhide Replacement Heads	290
Hammer – Rawhide With Split Head – No. 395	289
Hand Notcher	283
Hand Press No. M-380E	281
Hand Press No. M-380E – Dies For DOT® Durable™ Fasteners	281
Hand Press No. M-380E – Dies for DOT® Pull-The-Dot® Fasteners	281
Hand Roller	291
Hand Tools For DOT® Common Sense® Fasteners	279
Hand Tools For DOT® Durable™ or Glove Button Fasteners	280
Hand Tools For DOT® Lift-The-Dot® Fasteners	280
Hand Tools for Fasnap® Fasteners	280
HANGTYTE Boat Cover System	258
HAR Adhesive – 628 For Bonding Neoprene Coated Fabrics	166
HAR Adhesive – 728 For Bonding Vinyl To Vinyl	166
HAR Adhesive – 729 Vinyl Seam Sealer	167
HAR Adhesive – 730 For Bonding Vinyl-Laminated Fabrics	167
HAR Adhesive – 740 For Cotton Ducks	167
HarborTime® Edge	57
HarborTime® Edge HD	58
HarborTime® Edge HD Warranty	121
HarborTime® Edge Warranty	120
Head Rod – Electro-Galvanized	201
Head Rod – Fiberglass	201
Herculite® Natura™	21
Herculite® Natura™ Warranty	121
Herculite® No. 80M	103
Herculite® No. 90	103
Herculite® Riviera Marine Fabric™	59
Herculite® Riviera Marine Fabric™ Warranty	121
Herculite® Translucent – Flame Retardant	102
HH-66 Thinner	166
HH-66 Vinyl Cement	166
Hidem Gimp	307
Hidem Gimp – Acrylic	307
High Temperature Cloth	108
Hole Punch	283
Hook – Roller	200
Hook – Tarp Binding	260
Hook – Tarp Strap “S”	261

I

IMAR® #42 Detail Kit	174
IMAR® #604 Stamoid® Marine Vinyl Care Bucket	174
IMAR™ #301 Strataglass® Protective Cleaner	172
IMAR™ #302 Strataglass® Protective Polish	173
IMAR™ #401 Yacht Soap Concentrate	173
IMAR™ #402 Yacht Polish	173
IMAR™ #601 Stamoid® Marine Vinyl Protective Cream	173
IMAR™ #602 Stamoid® Marine Vinyl Protective Spray	174
IMAR™ #603 Stamoid® Marine Vinyl Cleaner	174
IOSSO® E-Z Snap Lubricant	176
IOSSO® Metal Polish	175
IOSSO® Mold And Mildew Stain Remover	175
IOSSO® Seam Sealer	168
IOSSO® Water Repellent	175

K

Keder – Marine	254
Keder – Tent	255
Kentucky Pack Cloth	73
Klear-To-Sea™	176

L

Lam-A-Lite™ Style C10641	103
Lam-A-Lite™ Style C13604	103
Leather Pearl Splits	241
Line – Cotton Awning	334
Line – Ultra Awning	334
Line – Ultra Mason	335

M

Main Street® +	26
Main Street® + Warranty	121
Makrolon® AR2	67
Makrolon® Marine 5	67
Makrolon® VR	68
Mallet/Maul – Rawhide	289
Michigan Cloth – Cordura®	73
Midwest Brand Wide – Number Duck	104
Molding – Aluminum Awning	201
Molding – Aluminum Awning – Bright Dipped	202
Molding – Dietz Head Rod Molding	204
Molding – Head Rod Molding No. 35/37	203
Montana Cloth	74
Mooring Pole – Aluminum Extension	244
Mooring Pole – Aluminum “Thumb Screw”	244
Mr. Clearco Food Grade Silicone Spray	177
Multi-Duty Hand Press No. W-1	284
Multi-Duty Hand Press No. W-1 – Dies	284

N

Nassimi Breeze Seaquest Hidem Gimp	69, 307
Nassimi Breeze Seaquest Roll 'N Pleat Vinyl Upholstery	69
Nassimi Breeze Seaquest Vinyl Upholstery	68
Nassimi Breeze Seaquest Welt	69, 308
Nassimi Breeze Vibe Vinyl Upholstery	70
Nautolex® Capitano Marine Vinyl Upholstery, SofDura and Voyager® Warranty	122
Nautolex® Capitano™ Channeling	71
Nautolex® Capitano™ Hidem Gimp	71, 307
Nautolex® Capitano™ Marine Vinyl Upholstery	70
Nautolex® Headliner	72
Nautolex® Marine Flooring	72
Nautolex® Marine Flooring Warranty	122
Nautolex® SofDura	71
Nautolex® SofDura Channeling	71
Nautolex® Underlining	72
Nautolex® Voyager®	72
Nautolex® Voyager Channeling	72
Needle – Sail	258
Nico-Fab® Tarp Fabric	104
Nite-Lite®	26
Nite-Lite® Warranty	122
Noah® Barrier Fabric	99
No-See-Um Netting	106
Nylon Pole Fittings	245
Nylon Pole Pads	245
Nylon Taffeta	74

O

Oregon Oxford Cloth	74
O Ring	260
O'Sea™ Coated Press Polished Sheets	66
O'Sullivan® Films (O'Sea®, Regalite®) Warranty	122

P

Patio 500®	20
Patio 500® Warranty	123
Pattern Fabric	73
Pencil – Fabric Marking	259
Phifer® Aluminum Screening	107
Phifer® Fiberglass Screening	106
Phifer® PetScreen®	107
Phifertex®	45, 75
Phifertex® Cane Wicker Collection	47
Phifertex® General Purpose	101
Phifertex® Jacquards	49
Phifertex® Olefin/PVC Blend	50
Phifertex® Plus	46, 76
Phifertex® Recreational Mesh	101
Phifertex® Stripes	47, 77
Phifertex® Warranty	123
Pins – T	259
Pins – Upholstery	259

Pliers – Fabric Pulling Pliers No. 250	285
Pliers – VISE-GRIP® Dies for DOT® Durable™	281
Polyester Filter Cloth	108
Polyester Utility Mesh	101
Polyfab™ Pro Shade Sail Cleaner	171
Polyfab™ Shade Sail Edge Webbing	186, 321
Poly-Mesh L60611	104
Polypropylene Filter Fabric	109
Polypropylene Trampoline Fabric	109
Polysield™ HDPE Sheeting	107
Polysield™ Warranty	123
Polytex®	96
Polytex® Warranty	124
Pooltex	109
Porcelain Rings	199
Pres-N-Snap®	282
Pres-N-Snap® – Grommet Dies	282
Pulley – Stamped Steel – Swivel Eye	196
Pulley – Swivel Eye	196
Punch Kit – Self-Centering	288

Q

Q-Snap® Fasteners	234
Quick-Fit™ Tool Kit	283

R

Regalite® Fenestra Uncoated Press Polished Sheets	67
Regalite® / O'Sea® Firma Press Polished Sheets	67
Regalite® Uncoated Press Polished Sheets	67
Regatta® Binding	303
Regatta® Facing	306
Renter's Choice	110
Revolving Punch No. 155	285
Revolving Punch No. 155 – Cutting Tube Kit	285
Revolving Punch No. 155 – Cutting Tubes	285
Revolving Punch No. 155 – Punch Anvil	285
Ring Clips	199
Riviera Marine Fabric™ Binding	303
RollEase® Roller Shade System	160
Rope – 3-Strand Polypropylene	338
Rope – Diamond Braided Polyester	335
Rope – Supreme MFP Braided	335
Rope – Unmanila™ Polypropylene	339
Rope – Zenith	338

S

Sailmaker's Palm	258
Sateen Duck	105
Scenery Fabrics – Non-Flame Resistant, Unbleached	108
Screw Eye	260
Screw Eye – Long Shank	260
Screw Eye – Open Eye	260
Sea Clear Polycarbonate	68

Sea-Sprae®	58	SheerWeave® 7100	87
Sea-Sprae® Warranty	124	SheerWeave® 7500	88
Serge Ferrari Soltis® Horizon 86 and Perform 92 Warranty	126	SheerWeave® BASIC 3%	88
Serge Ferrari Soltis® Horizon 86 (Soltis® 86)	91	SheerWeave® BASIC 5%	88
Serge Ferrari Soltis® Opaque B92 (Soltis® 92 Blackout)	93	SheerWeave® Exterior Warranty	127
Serge Ferrari Soltis® Opaque B702 (Soltis® B702 Blackout)	93	SheerWeave® Infinity 2	89
Serge Ferrari Soltis® Perform 92 (Soltis® 92)	92	SheerWeave® Interior Warranty	127
Serge Ferrari Soltis® Proof 502 (Soltis® Précontraint® 502 Satin)	22	Shelter-Rite® Poly-R Scrim	104
Serge Ferrari Soltis® Proof 502 Warranty	125	Shelter-Rite® Tarp Fabric Style 2118	104
Serge Ferrari Soltis® Proof Vivo	23	Showtime® II	110
Serge Ferrari Stamoid® Binding	304	Showtime® II Warranty	127
Serge Ferrari Stamoid® Facing	306	Silicone-Coated Fiberglass Cloth	108
Serge Ferrari Stamoid® Heavy Cover 102 in.	60	SIMU® Solar AutoSun™ Solar Power Operator	156
Serge Ferrari Stamoid® Light 59 in.	60	Single-Filled Enameling Duck	105
Serge Ferrari Stamoid® Light 80 in.	60	Single-Filled Ounce Duck	105
Serge Ferrari Stamoid® Light 102 in.	61	Skipper Water-Resistant Cover Duck	102
Serge Ferrari Stamoid® Open 102 in.	61	Slide Track – Aluminum – Track	243
Serge Ferrari Stamoid® Top 59 in.	61	Slide Track – Nylon – Hinge	244
Serge Ferrari Stamoid® Top 80 in.	62	Slide Track – Nylon – Slide Cap	244
Serge Ferrari Stamoid® Top 102 in.	62	Slide Track – Nylon – Slide Lock	244
Setting Die For Plain And Tooth Grommets And Washers	288	Slide Track – Nylon – Slides	244
Setting Die For Rolled Rim Grommets And Spur Washers	288	Slip Tee	193
Sewing Kit	285	Snap – Bolt	262
SGS Thermal Digital Print Film	14, 99	Snap – Curtain Trigger	262
ShadeCast™	26	Snapfast® System	235
Shade Inspiration Collection™	159	Snaphook – Interlocking Snaphook	222
Shears – Ergonomic Shears	286	Snaphook – Retainer	222
Shears – Kretzer®	287	Snaphook – Standard Snaphook	222
Shears – Wiss® Industrial Shears	286	Snap – Spring	263
Shears – Wiss® Industrial Shears – Heavy Duty	287	Snap – Tent Wall	263
Shears – Wiss® Shop Shears	287	Solair® Accessories	147
Shears – Wiss® Upholstery, Carpet And Fabric Shears	286	Solair® Cable And Vertical Curtain Components	150
Shears – Wiss® Upholstery, Drapery, Carpet And Fabric Shears – Heavy Duty ..	286	Solair® Cable Curtain	149
SheerWeave® 1000	77	Solair® Comfort Components	147
SheerWeave® 2000-01	78	Solair® Comfort Hood Kit	147
SheerWeave® 2100-01	79	Solair® Comfort Retractable Awning	146
SheerWeave® 2360	79	Solair® Maxi Awning Covers	152
SheerWeave® 2390	80	Solair® Maxi Components	152
SheerWeave® 2390 Performance +	80	Solair® Maxi Hood Kit	152
SheerWeave® 2410	80	Solair® Maxi Window Awning	152
SheerWeave® 2410 Performance +	81	Solair® Patio Screens	151, 152
SheerWeave® 2500	81	Solair® Power Screen	148
SheerWeave® 2701	82	Solair® Pro Awning Covers	143
SheerWeave® 2703	82	Solair® Pro Components	144
SheerWeave® 2705	82	Solair® Pro Hood Kit	143
SheerWeave® 2710	83	Solair® Pro Retractable Awning	142
SheerWeave® 3000	83	Solair® Pro Touch-Up Paint	144
SheerWeave® 4000 ECO	83	Solair® Pro Valance Plus Fabric	144
SheerWeave® 4100 ECO	84	Solair® Pro Valance Plus System	143
SheerWeave® 4400 ECO	85	Solair® Touch-Up Paint	144, 147
SheerWeave® 4500	85	Solair® Vertical Curtain	149
SheerWeave® 4550	85	SolaMesh®	94
SheerWeave® 4600	86	SolaMesh® Shade Sail Hardware	180
SheerWeave® 4650	86	SolaMesh® Warranty	128
SheerWeave® 5000	86	Solarpro™ Greenhouse Sheeting	108
SheerWeave® 7000	87	Solarpro™ Warranty	128

Solvy	295
Somfy® Altus RTS Motor	153
Somfy® CMO Motor	155
Somfy® Eolis Wind Sensor Kit	157
Somfy® Home Automation	163
Somfy® Infrared Heater	159
Somfy® Motor Hardware	156
Somfy® Motors and Accessories for Interior Shades	163
Somfy® Motors and Accessories for Interior Shades – R28 Motor	163
Somfy® Motors and Accessories for Interior Shades – ST30 Motor	163
Somfy® myLink™	158
Somfy® Ondeis™ WireFree RTS Rain and Sun Sensor	156
Somfy® Operators and Operator Options	153
Somfy® Soliris Sensor	157
Somfy® Sunea RTS CMO Motor	155
Somfy® Sunea RTS CMO Visual Reference Guide	154
Somfy® Universal RTS Receiver	158
Spring – Pool Cover	259
Spring – Snap Link	261
Spring – Trampoline	219
SS71 Bonding Tape®	333
Stamoid® Marine Fabrics Warranty	129
Staple Remover	287
Staples – Oblong Clinch	219
Starfire®	26
Stayput™ Fasteners	236
Steel Stitch™ Accessories	209
Steel Stitch™ Aluminum Extrusion	205
Steel Stitch™ FlashStrip®	208
Steel Stitch™ ZipStrip®	205
Steel Stitch™ ZipStrip® – Firesist® Fabric	207
Steel Stitch™ ZipStrip® – Firesist® Fabric with Tenara® Thread	208
Steel Stitch™ ZipStrip® – Sunbrella® Fabric	207
Steel Stitch™ ZipStrip® – Sunbrella® Fabric with Tenara® Thread	207
Strapping – Furniture	326
Strataglass® Vinyl Sheets	66
Strataglass® Warranty	129
Suction Cup	237
Sunbrella® 2017-2019 Fusion Collection	32
Sunbrella® Alloy	13
Sunbrella® Awning Jacquards	13
Sunbrella® Awning/Marine 46 in.	51
Sunbrella® Awning/Marine Solids 46 in.	6
Sunbrella® Awning/Marine Solids 60 in.	7, 52
Sunbrella® Awning/Marine Solids 80 in.	9, 54
Sunbrella® Awning Stripes	10
Sunbrella® Braid – 5/8 in. – No. 6118	299
Sunbrella® Braid – 13/16 in. – No. 681	298
Sunbrella® Braid – 13/16 in. – No. 4015 European Style	297
Sunbrella® Brush Fringe	34, 296
Sunbrella® Clarity	12
Sunbrella® Contour	94
Sunbrella® Elements – Canvas	38
Sunbrella® Elements – Cast	39
Sunbrella® Elements – Decorative	37
Sunbrella® Elements – Dupione	39

Sunbrella® Elements – Linen	40
Sunbrella® Elements – Rib	41
Sunbrella® Elements – Sailcloth	40
Sunbrella® Elements – Shadow	41
Sunbrella® Elements – Spectrum	40
Sunbrella® Embroidery Bobbins	295
Sunbrella® Embroidery Thread	294
Sunbrella® Facing	305
Sunbrella® Graphics System Warranty	130
Sunbrella® Heritage	41
Sunbrella® Inkjet White Warranty	131
Sunbrella® Makers	36
Sunbrella® Marine Binding – Centerfold	300
Sunbrella® Marine Binding – Centerfold – Type 1810	301
Sunbrella® Marine Binding – Double-Fold Bias Cut	301
Sunbrella® Marine Binding – Double-Fold Straight Cut	302
Sunbrella® Mayfield Collection	11
Sunbrella® Plus 60 in.	9, 54
Sunbrella® Plus 80 in.	10, 55
Sunbrella® Pure	35
Sunbrella® Rain	42
Sunbrella® SeaMark®	55
Sunbrella® SeaMark® Warranty	131
Sunbrella® Sheer	43
Sunbrella® Sling	44
Sunbrella® Supreme	55
Sunbrella® Terry	43
Sunbrella® Throws	139
Sunbrella® Twist Cord-Edge	35, 296
Sunbrella® Unity	14
Sunbrella® Warranty	130
Sunbrella® Webbing	321
Sunforger® Boat Shrunk	62
Sunforger® Boat Shrunk – Flame Retardant	62
Sunforger® Car Cover Flannel	99
Sunforger® Marine Finish Boat Shrunk	63
Sunforger® Marine Finish Boat Shrunk – Flame Retardant	63
SunTex® 80	89
SunTex® 80 and 90 Warranty	131
SunTex® 90	90
SunTex® 95	90
Super Seamstick/Hi-Tack Adhesive Tape	331
Super Solar Screening	89
Super-Top™ Boat Topping	62
Super-Tuff™	176
Support Pole – Aluminum Extension	245
Sur Last®	58
Sur Last® Binding	305
Sur Last® Warranty	131

T

Tape – Curtain Strapping	331
Tape – Double-Faced	331
Tape – Double-Faced Adhesive	332
Tape – Double-Faced Transfer	332
Tape – No. 281 Nylon	300
Tape – No. 463 Seam	332
Tape – Reinforcing	333
Tape – Thermo Bonding	333
Tape – Unbleached Cotton	326
Tape – Vinyl Adhesive Welding	331
Tape – Vinyl Welding	331
Tassels – Synthetic Wood	300
Tear-Aid® Patch Retail Kits	168
Tear-Aid® Roll Patches	169
Tear Mender	168
Tent Slide	263
Tent Slip	263
Tent Stake – Kinked Wire	264
Tent Stake – Polypropylene	264
Tent Stake – Steel	263
TEXACRO® – Hook And Loop Tape – Adhesive Back	327
TEXACRO® – Hook And Loop Tape – Standard Back	326
Texas Cloth	74
Tex-Tex®	110
Textilene® 90	90
Textilene® 90 and 95 Warranty	131
Textilene® 95	91
Thread – A&E Poly Nu Bond™ Twisted Non-Wick Polyester	312
Thread – A&E Special	314
Thread – A&E SunStop®	315
Thread – Aqua-Seal™	309
Thread – Coats Dabond® Nano	310
Thread – Coats Dual Duty®	310
Thread – Coats Polymatic® Bonded Monocord Dacron®	311
Thread – Coats Polymatic® Drip Stop Bonded Monocord Dacron®	310
Thread – Coats Ultra Dee® Polyester	311
Thread – Gore® Tenara® (HTR Style)	317
Thread – Gore® Tenara® (Original Style)	316
Thread – Gore® Tenara® (TR Style)	316
Thread Nippers	286
Thread – PremoBond Bonded Polyester	313
Thread – Premofast™	314
Tie-Down – EPDM Rope Heavy Duty Black	262
Tie-Down – EPDM Rope Standard Black	262
Ties – Awning	259
Ties – Cable	259
Tip – Rubber	196, 245
T Nut Fastener	237
Tonneau-Tex® SP	100
Top-Snapper®	287
Top Stop No. 10	268
Track – Costa Track®	255
Track – Costa Track® End Cap	256
Track – Flex-A-Rail	256

Track – Headliner	257
Track – Headliner – Tools	257
Track – PVC	255
Track – Steel Curtain Track System – 16 Gauge – Ceiling Support Brackets	197
Track – Steel Curtain Track System – 16 Gauge – Curved Track	197
Track – Steel Curtain Track System – 16 Gauge – End Stops	197
Track – Steel Curtain Track System – 16 Gauge – Industrial Curtain Trolley	197
Track – Steel Curtain Track System – 16 Gauge – Roller Track	198
Track – Steel Curtain Track System – 16 Gauge – Track Splice	198
Track – Steel Curtain Track System – 16 Gauge – Wall Mount And End Mount Brackets	198
Track – Three Channel – PVC	256
Track – Trim Screws	256
Triangle Ring	218
Triton®	63
Triton® Warranty	132
Trivantage® GVC18	101
Tubing – Aluminum Square And Rectangular	204
Tubing – Marine – Aluminum	239
Tubing – Marine – Stainless Steel Type 304	254
Tubing – Marine – Stainless Steel Type 316	254
Tubing “PE” – Low-Density Polyethylene	203
Tufmesh™	103

U

Ultra Tef-Gel®	177
U.S. Army Duck Natural	105
Utility Trash Tarp Fabric	101

V

VCP	101
VCP Asphalt Tarps	102
VELCRO® Brand Hook And Loop Fasteners – Adhesive Back Nylon Tape	329
VELCRO® Brand Hook And Loop Fasteners – Adhesive Back Polyester Tape	329
VELCRO® Brand Hook And Loop Fasteners – Standard Back Nylon Tape	327
VELCRO® Brand Hook And Loop Fasteners – Standard Back Polyester Tape	328
VELCRO® Brand ONE-WRAP® Fasteners	330
VELCRO® Brand VELSTICK® Semi-Rigid Fasteners	330
Ventilator – Airlette®	258
Vent-Sol-Air™	258
Vinyl Clear Strip	68
Visilite™	65
Vivitex® Poly Oxford White	98
Vivitex® Sunbrella® Inkjet White	98
VLP® Vinyl Liquid Patch	168

W

Weathertyte® Plus	25
Weathertyte® Plus Lite	25
Weathertyte® Plus Lite Warranty	133
Weathertyte® Plus Warranty	132
Webbing – 3 Bar Slide	219
Webbing – Cotton – Indo-Carbon Black – Class 3	325

Webbing – Cotton – Natural – Class 1 325

Webbing – Dacron® 322

Webbing – Heat-Sealable PVC 323

Webbing – Leader 325

Webbing Loop 218

Webbing – Nylon 321

Webbing – Polyester 323

Webbing – Polypropylene Style No. 7166/P0001 323

Webbing – Polypropylene Style No. 7390/P0002 324

Webbing – Tip For Types I And II Webbing 219

Webbing – Tip For Types I, II And III Webbing 219

Webbing – Vat-Dyed Olive Drab – Shade 7 Untreated – Class 3 325

Weblon® Coastline Plus® 18

Weblon® Coastline Plus® Continental Stripes 19

Weblon® Coastline Plus® Duplex 19

Weblon® Coastline Plus® Linen Back 19

Weblon® Coastline Plus® Traditional Stripes 19

Weblon® Coastline Plus® Warranty 134

Weblon® Regatta® Yacht Fabric 59

Weblon® Regatta® Yacht Fabric Warranty 134

Weblon® Vanguard® 21

Weblon® Vanguard® Warranty 135

Welt 307

Welting – Vinyl 202

Welting – Welt Cord 306

Welt – Rubber Spray 308

Welt – Windshield 308

Windscreen 109

Worm Gear Attachments – Combination Coupling And Hook 195

Worm Gear Attachments – Universal Or Knuckle Joint 195

Worm Gear Attachments – Winding Shaft Eye 196

X

Xtreme Seal® 309

Xtreme Seal® Awning Seal 202, 309

Xtreme Seal® Ultra Seal 309

Xtreme Seal® V-Seal 309

Y

YKK® AQUAGUARD® 264

YKK® Fasteners 220, 222

YKK® Pull Cord 268

YKK® SNAD® Pressure Sensitive Fasteners 236

YKK® SNAPCAP® 268

YKK® VISLON® SVS No. 5 Chain 266

YKK® VISLON® SVS No. 5 Sliders – Metal 265

YKK® VISLON® SVS No. 5 Sliders – Plastic 266

YKK® VISLON® 8VF No. 8 Sliders – Metal 266

YKK® VISLON® 8VFUV No. 8 Chain 266

YKK® VISLON® 10VF No. 10 Sliders – Metal 264

YKK® VISLON® 10VF No. 10 Sliders – Plastic 265

YKK® VISLON® 10VFUV No. 10 Chain (VF) 265

YKK® VISLON® Bottom Stops 268

YKK® VISLON® Top Stops 268

YKK® VISLON® UV VFUV No. 8 Separating Zipper Non-Locking –
Double Pull Metal Slider 269

YKK® VISLON® UV VFUV No. 10 Separating Zipper Automatic Lock 269

YKK® VISLON® VFOL105W No. 10 Separating Zipper Non-Locking –
Double Pull Metal Slider 270

YKK® VISLON® VFUL106 TA No. 10 Separating Zipper With
Automatic Lock – Short Single Pull Plastic Slider 270

YKK® VISLON® VFULVOL-107 DX E No. 10 Separating Zipper With
Automatic Lock – Short Double Pull Metal Slider 271

YKK® VISLON® VFUVOL-86 DA E 5/8 No. 8 Separating Zipper With
Automatic Lock – Single Pull Metal Slider 277

YKK® VISLON® VFUVOL-86 DA E No. 8 Separating Zipper With
Automatic Lock – Short Single Pull Metal Slider 273

YKK® VISLON® VFUVOL-87 DXL E No. 8 Separating Zipper With
Automatic Lock – Long Double Pull Metal Slider 274

YKK® VISLON® VFUVOL-106 DA E No. 10 Separating Zipper With
Automatic Lock – Short Single Pull Metal Slider 271

YKK® VISLON® VFUVOL-107 DX E No. 10 Separating Zipper With
Automatic Lock – Short Double Pull Metal Slider 272

YKK® VISLON® VFUVOL107TX No. 10 Separating Zipper With
Automatic Lock – Double-Pull Plastic Slider 275

YKK® VISLON® VSOL56 No. 5 Separating Zipper With
Automatic Lock – Short Single Pull Metal Slider 276

YKK® ZIPLON® CFOR-105 DWL E No. 10 Separating Zipper Non-Locking –
Double Pull Metal Slider 277

YKK® ZIPLON® CFOR-106 DA E No. 10 Separating Zipper with
Automatic Lock – Single Pull Metal Slider 277

YKK® ZIPLON® Chain (CF) 267

YKK® ZIPLON® Sliders – Metal 267

YKK® ZIPPY COOL® 278

Z

Zipper Jig 268

Zipper Stop Application Tool 268

Zipzap Lubricants 278

Terms of Sale

Limited Warranties

Trivantage, LLC warrants that goods sold by it shall be free from defects in material and workmanship and will conform to applicable specifications and drawings. Trivantage, LLC's liability, whether based on breach of warranty or contract, negligence in manufacture, or otherwise shall be limited to replacement or repair (at Trivantage, LLC's election) of the defective or nonconforming goods, or (at Trivantage, LLC's election) refund of the purchase price thereof. This warranty shall apply, and Trivantage, LLC shall be liable for replacement, repair or refund, only if Buyer has given Trivantage, LLC written notice of the defect or nonconformity within 180 days after delivery of such goods to Buyer. Trivantage, LLC assumes no liability for results of the use of goods purchased from Trivantage, LLC, 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. Trivantage, LLC makes no warranty of merchantability as to goods designated as seconds, goods otherwise designated as not of first quality, or goods identified to Buyer as being of foreign origin. 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, LLC 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, LLC to the Buyer to the extent permissible under law and the terms of such warranty. **THE FOREGOING CONSTITUTES THE SOLE AND EXCLUSIVE WARRANTY OF TRIVANTAGE, LLC AND THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR THE PURPOSE SOLD, DESCRIPTION, QUALITY OR ANY OTHER MATTER. WITHOUT LIMITING THE FOREGOING, TRIVANTAGE, LLC 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 at Trivantage, LLC's executive offices or a sales office of Trivantage, LLC, and when so accepted shall constitute a contract that will be governed by and construed in accordance with the laws of the State of North Carolina. All orders are accepted subject to these Terms of Sale and subject to approval by Trivantage, LLC of the Buyer's credit at the time of shipment. Trivantage, LLC'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, LLC shall be Trivantage, LLC's specifications, unless Buyer shall have furnished different specifications and Trivantage, LLC shall have agreed in writing to such specifications. Trivantage, LLC 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, LLC. Trivantage, LLC, 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, LLC's Terms of Sale; (c) substantial changes in materials or supplies occur; (d) causes beyond Trivantage, LLC's control make it impossible to ensure shipment; (e) Buyer becomes insolvent or is subject to a petition in bankruptcy; or (f) Trivantage, LLC withdraws its credit approval. The Buyer may cancel the remaining unfilled portion of any blanket or continuing order upon written notice to Trivantage, LLC and payment of reasonable cancellation charges, which charges shall take into account goods already produced or in process, expenses incurred by Trivantage, LLC in connection with the order, and commitments made by Trivantage, LLC, 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.

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. The minimum order charge may apply. The catalog indicates standard units of packaging.

Unless otherwise agreed in writing, terms are net thirty (30) days, F.O.B. shipping point, subject to approval by the Trivantage, LLC credit department. Customers without established credit approval from Trivantage, LLC should remit payment with the order, or instruct Trivantage, LLC to ship C.O.D. 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, LLC the properly completed and signed sales tax exemption form. Buyer is responsible for any import or export charges.

Shipping, Delivery and Return

Trivantage, LLC 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 Trivantage, LLC's control to obtain necessary labor, materials or manufacturing facilities. A shipping date given by Trivantage, LLC is an estimated date. In no event shall Trivantage, LLC 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, LLC's control.

Trivantage, LLC 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, LLC must be made in writing within ten (10) days of receipt of the merchandise. All shipments are made F.O.B. shipping point, unless otherwise agreed to in writing by Trivantage, LLC. Trivantage, LLC's responsibility for delivery ends with a signed bill of lading from the carrier. All risk of loss after Trivantage, LLC's delivery to the carrier shall be borne by the Buyer.

Authorization must be obtained from Trivantage, LLC prior to return of any goods for repair, replacement, or credit. Trivantage, LLC shall have the right, prior to return, to inspect any goods claimed to be defective or nonconforming. All returned shipments authorized by Trivantage, LLC shall be prepaid by Buyer. Unless Trivantage, LLC determines, upon inspection of returned goods, that the goods were defective or nonconforming, a \$15.00 or 15% handling charge (whichever is greater) will be imposed on the Buyer. No claims on fabric will be allowed, whether the goods are conforming or not, if the goods have been cut. If a pattern or color match is desired, a swatch of the pattern or color required must be submitted with the order. In no event shall Buyer be entitled to any right of set-off against Trivantage, LLC.

Miscellaneous

If any goods or services ordered by Buyer are supplied by Trivantage, LLC in accordance with designs or specifications of the Buyer, and such goods are not Trivantage, LLC's standard items or supplied in accordance with Trivantage, LLC's standard processes, Buyer shall indemnify Trivantage, LLC from any expense, loss, damage or liability which may be incurred by Trivantage, LLC 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, LLC does not convey a license, express or implied, under any patent in which Trivantage, LLC has an interest, nor does it convey rights to any descriptive data, including Trivantage, LLC's manufacturing drawings, processes or tooling.

THE PARTIES AGREE THAT THIS AGREEMENT, ANY SALES THERE UNDER, OR ANY CLAIM, DISPUTE OR CONTROVERSY (WHETHER IN CONTRACT, TORT, OR OTHERWISE, WHETHER PREEXISTING, PRESENT OR FUTURE, AND INCLUDING STATUTORY, COMMON LAW, AND EQUITABLE CLAIMS) BETWEEN TRIVANTAGE, LLC AND BUYER arising from or relating to this agreement, its interpretation, or the breach, termination or validity thereof, the relationships which result from this agreement, or any related purchase 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, LLC will comply with all mandatory provisions of the Government applicable to Trivantage, LLC if and only if Buyer gives Trivantage, LLC written notice of such provisions in sufficient time to permit compliance. In addition, Trivantage, LLC 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.

NOTES

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal blue or grey lines across its entire width. The lines are thin and consistent in color, providing a guide for handwriting. There are no margins, text, or other markings on the page.

NOTES

[illegible]