

# Contents

**Sailman™ - Full Batten Systems**

**178-184**

**Sailman™**



## Design Focus

### INTRODUCTION

The principle behind Sailman™ is simple. A range of trackless and tracked full batten systems incorporating slides, boxes and battens from one supplier. Bainbridge International has one objective. To provide highly engineered, innovative, efficient and good value fully integrated batten systems to suit most yachts from 24ft to 80ft.

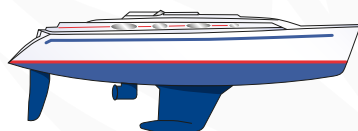
### DEDICATED TO FULL BATTEN SYSTEMS

Bainbridge International is in a unique position to design and develop full batten systems. No other organization has our knowledge and experience of sailmaking, sail hardware and control systems. This combination of skills is your guarantee of efficiency, quality and reliability.



### sailman3000 FULL BATTEN SYSTEM

UP TO  
**35** FT  
(10.5m)  
APPROX

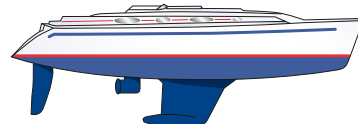


- Precision molded plastic slides.
- Solid hinge system with 'lay-flat' rotation.
- Flat and round batten options with integral tension adjuster.



### sailman3500 FULL BATTEN SYSTEM

UP TO  
**35** FT  
(10.5m)  
APPROX

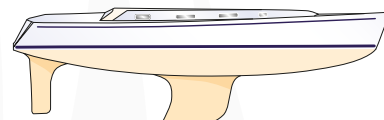


- Ideal for composite spars.
- Used with wing masts.
- Suits gates that are proud of sail track.
- Flat and round batten options with integral tension adjuster.



### sailman4000 FULL BATTEN SYSTEM

UP TO  
**43** FT  
(13m)  
APPROX



- Low friction sliders with stainless reinforced slugs.
- Cast stainless hinge with 'lay-flat' rotation.
- Battens up to 10mm thick.



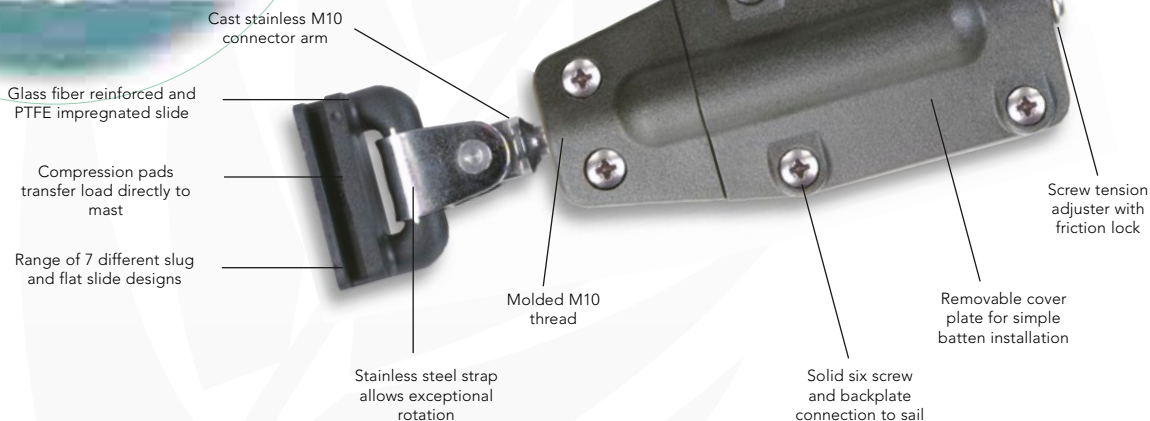
## Sailman 3000 Full Batten Systems

FOR BOATS UP TO 35 FEET (10.5M) APPROX.

### sailman3000 FULL BATTEN SYSTEM

Sailman 3000 is a compact integrated full batten system for boats below 35ft. The system comprises seven profiles of slide and a solid slide linkage that is compatible with Series 25 and Series 35 batten boxes.

Sailman 3000 is compatible with most modern internal mast tracks and despite being designed to be affordable still includes many detailed design features and advanced quality materials.



### SELDEN SPARS

For new Selden 'C' series masts choose A108 Allslip slides. For optimum performance with older 'E' series use A114's and replace the sail feeding gate on the spar with a U99980 insert.



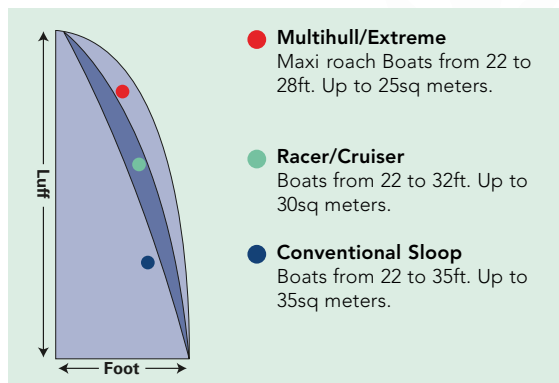
### INTERMEDIATE SLIDES

Slides can also be used as intermediates using HA035BK long reach shackle.



### SAIL AREAS

Recommended maximum sail areas according to yacht type and roach variation.



The big-roached rigs of some multihulls and water-ballasted yachts add considerably to the loads applied to batten systems. If in doubt contact your Bainbridge International outlet for further advice.

## Sailman 3000 Full Batten Systems

FOR BOATS UP TO 35 FEET (10.5M) APPROX.



### 1. BATTEN SLIDES:

- Seven profiles to fit most modern spars.
- Precision molded from glass fiber reinforced plastic with a PTFE impregnation.
- Integral compression pad transfers load directly on to aft face of spar.
- Slides can also be used as intermediates using A035BK long reach shackle.

### 2. SLIDE LINKAGE:

- Pressure formed 316 stainless steel double toggle transfers compression directly and evenly on to slide.
- M10 thread allows connection to Series 25, Series 35 and most other brands of batten box.
- Hinge system allows 'lay-flat' rotation of battens when sail is stowed or reefed.
- Clevis pin with heavy duty split ring provides simple sail removal.

### 3. SERIES 25 BATTEN BOXES:

- Tough injection molded construction.
- Integrated tension adjustment system with friction lock.
- Accommodates battens up to 30mm x 5.5mm including 30CT052 (see page 68).
- Top plate design allows simple batten fitting and removal.
- Molded M10 thread.

### 4. SERIES 35 BATTEN BOXES:

- Tough injection molded construction.
- Concealed M10 nut for extra strength compared to threaded plastic designs.
- Optional batten tension adjustment with metal drive dog.
- Snap-in guides accommodate flat battens up to 30mm x 6.5mm including U30063 (see page 68) and round battens up to 10mm.

### INFORMATION POINT

- Slides should be a snug fit and bear on aft face of mast.



## SAILMAN 3000 COMPONENTS

Part No.	Description	Width/Dia (mm)	Length (mm)	Connection	Weight (gm/oz)	Max. Batten
HA114	Low Friction Slide 16mm Selden 'E' Series	15.6	45		15-0.5	
HA116	Low Friction Slide 8mm Diameter	7.9	45		15-0.5	
HA117	Low Friction Slide 9mm Diameter	9.3	45		15-0.5	
HA118	Low Friction Slide 12.5mm Diameter	12.5	45		15-0.5	
HA107	Low Friction Slide 16mm Flat	15.6	45		15-0.5	
HA108	Low Friction Slide 19mm Flat	19.0	45		15-0.5	
HA109	Low Friction Slide 22mm Flat	22.2	45		15-0.5	
A035BK	Long Reach Shackle			61		
U99980	Selden Sail Groove Insert	30.0	155			
U00642	Slide Linkage M10			M10 Thread	50-1.7	
U01540	Series 25 Luff Box	50.0	109	M10 Thread	118-4.1	30CT052
U01530	Series 35 Standard Luff Box	62.0	120	M10 Thread	200-7.1	U30063 or 10R
U01531	Series 35 Luff Box with Batten Tension Adjuster	62.0	120	M10 Thread	235-8.3	U30063 or 10R



## Sailman 3500 Full Batten Systems

FOR BOATS UP TO 35 FEET (10.5M) APPROX.

**sailman3500**  
FULL BATTEN SYSTEM

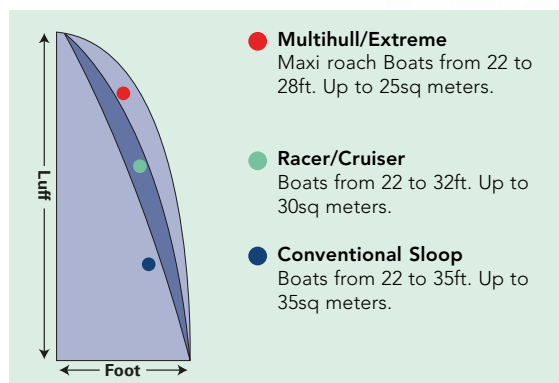
The Sailman 3500 system has been specifically designed to fit a full batten sail on three of the most difficult types of spars.

- Alloy spars with sail feeding gates that are proud of the aft face of the mast.
- Composite spars.
- Alloy and composite wing masts.

Only our unique knowledge of both sailmaking and mastmaking has made the design of Sailman 3500 possible.

### SAIL AREAS

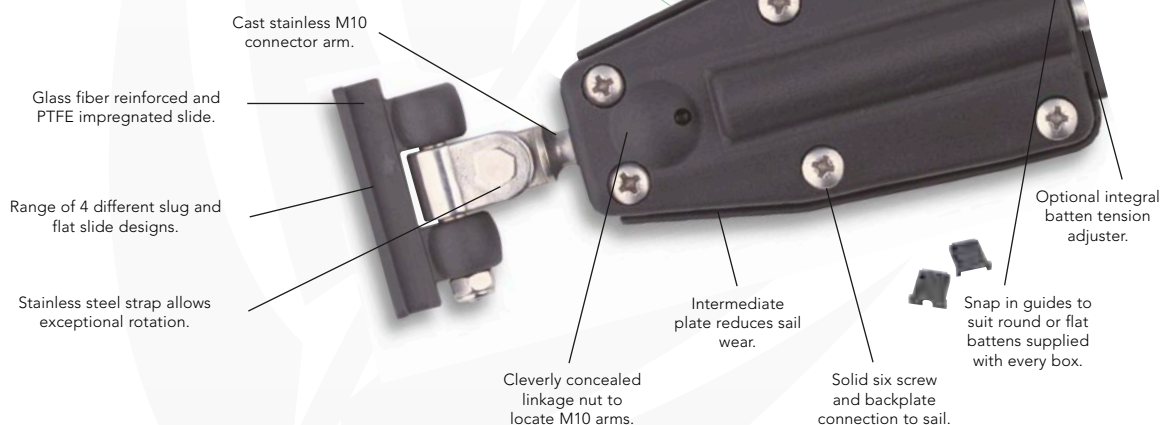
Recommended maximum sail areas according to yacht type and roach variation.



The big-roached rigs of some multihulls and water-ballasted yachts add considerably to the loads applied to batten systems. If in doubt contact your Bainbridge International outlet for further advice.

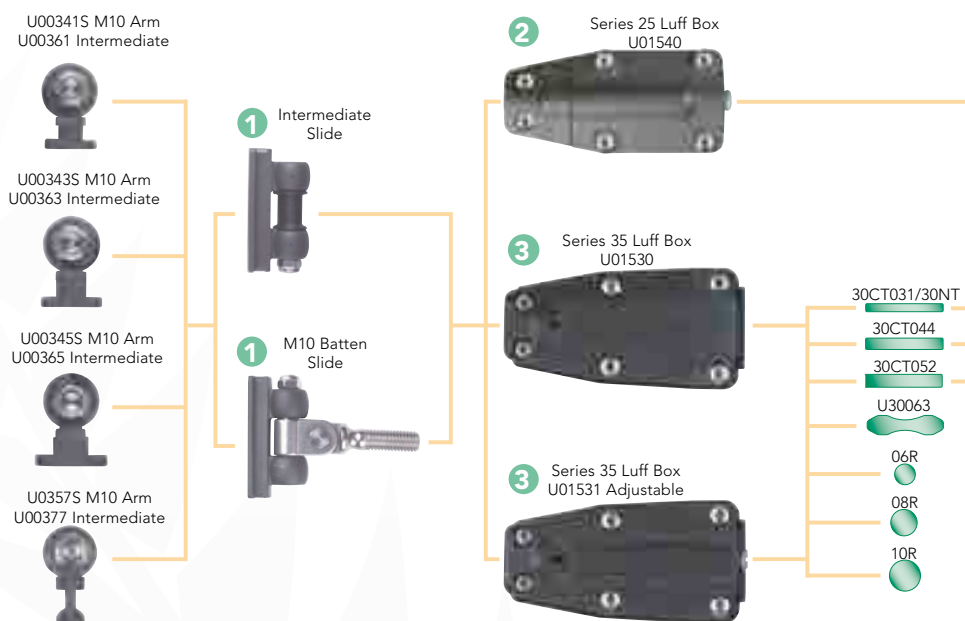


© Onne van der Wal/Bluegreen



## Sailman 3500 Full Batten Systems

FOR BOATS UP TO 35 FEET (10.5M) APPROX.



### 1. BATTEN SLIDES:

- Sailman 3500 slides are designed to run inside the mast groove and unlike Sailman 3000 and 4000 slides do not bear on the aft face of the mast. This allows them to run past feeding gates and to slide in very narrow grooves on composite and wing masts,
- To prevent wear on composite spars the slides have no exposed metal parts.
- The smallest slug version has a waist of just 3.4mm allowing it to fit the narrowest of grooves.
- Glass reinforced and PTFE impregnated construction.
- Fully articulating solid stainless steel joint allows 'lay-flat' rotation of battens when sail is stowed or reefed.
- M10 thread allows connection to Series 25 and Series 35 and most other brands of batten box.
- Cotton reel on intermediate slides for easy sail removal. M10 thread allows connection to Series 25 and Series 35 and most other brands of batten box.

### 2. SERIES 25 BATTEN BOXES:

- Tough injection molded construction.
- Integrated tension adjustment system with friction lock.
- Accommodates battens up to 30mm x 5.5mm including 30CT052 (see page 68).
- Top plate design allows simple batten fitting and removal.
- Molded M10 thread.

### 4. SERIES 35 BATTEN BOXES:

- Tough injection molded construction.
- Concealed M10 nut for extra strength compared to threaded plastic designs.
- Optional batten tension adjustment with metal drive dog.
- Snap-in guides accommodate flat battens up to 30mm x 6.5mm including U30063 (see page 68) and round battens up to 10mm.

#### INFORMATION POINT

- Slides should be a snug fit and bear on aft face of mast.



### SAILMAN 3500 COMPONENTS

Part No.	Description	Width/Dia (mm)	Waist (mm)	Length (mm)	Connection	Weight (gm/oz)	Max. Batten
U00361	Intermediate/Head Slide 15.5mm	15.5	7.3	55	Webbing	36-1.3	
U00363	Intermediate/Head Slide 17.9mm	17.9	8.7	55	Webbing	36-1.3	
U00365	Intermediate/Head Slide 21.5mm	21.5	10.3	55	Webbing	36-1.3	
U00377	Intermediate/Head Slide 9.0mm Diameter	9.0	3.4	55	Webbing	36-1.3	
U00341S	Batten Slide 15.5mm Series 35 Luff Box	15.5	7.3	55	M10 Thread	89-3.1	
U00343S	Batten Slide 17.9mm Series 35 Luff Box	17.9	8.7	55	M10 Thread	89-3.1	
U00345S	Batten Slide 21.5mm Series 35 Luff Box	21.5	10.3	55	M10 Thread	89-3.1	
U00357S	Batten Slide 9.0mm Diameter Series 35 Luff Box	9.0	3.4	55	M10 Thread	89-3.1	
U01531	Series 35 Luff Box with Batten Tensioner	62.0		120	M10 Thread	148-5.3	U30063 or 10R
U01530	Series 35 Standard Luff Box,	62.0		120	M10 Thread	148-5.3	U30063 or 10R
U01540	Series 25 Luff Box	50.0		109	M10 Thread	118-4.1	30CT052

## Sailman 4000 Full Batten Systems

FOR BOATS UP TO 43 FEET (13M) APPROX.

### sailman4000 FULL BATTEN SYSTEM

Sailman 4000 is a premium trackless full batten system for boats below 45ft. The system comprises six profiles of slides that feature a solid hinge system and stainless steel reinforced slugs. All slides are compatible with Series 35 and Series 55 batten boxes.

Sailman 4000 has been designed as a premium system that through careful design and detailed engineering delivers excellent performance and strength without the complication and cost of fitting an external track..



© Dufour 34/Gilles Martin

Cast stainless M10 connector arm.

Fiber stabilized, high-grade materials with low friction PTFE impregnated slugs and body.

Low friction dimpled wear pads distribute compression loads directly on to the aft face of mast.

All slugs feature stainless steel inserts for increased strength.

Fully articulating, stainless steel joints.

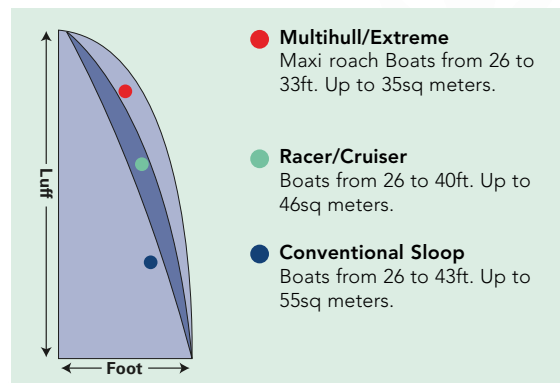


### SELDEN SPARS

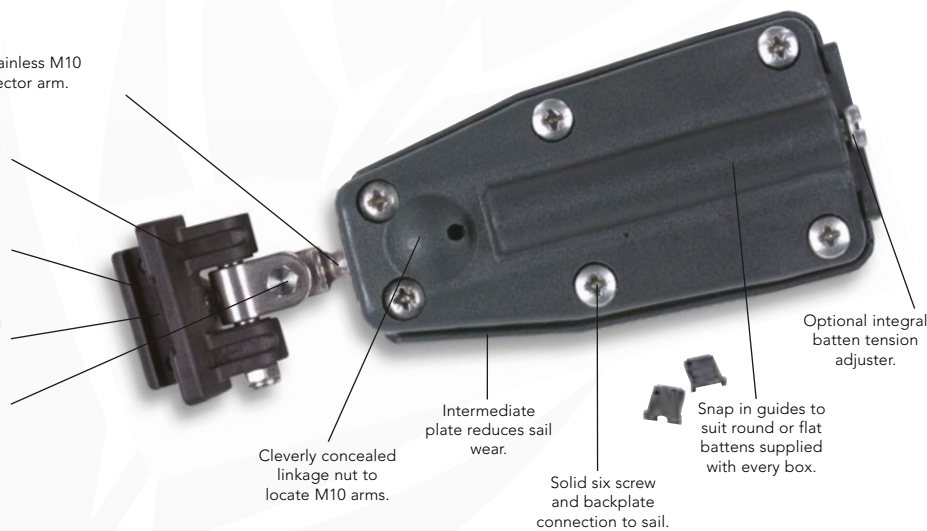
For new Selden 'C' series masts choose A443S/A463 slides. For optimum performance with older 'E' series use A114's and replace the sail feeding gate on the spar with a U99980 insert.

### SAIL AREAS

Recommended maximum sail areas according to yacht type and roach variation.



The big-roached rigs of some multihulls and water-ballasted yachts add considerably to the loads applied to batten systems. If in doubt contact your Bainbridge International outlet for further advice.



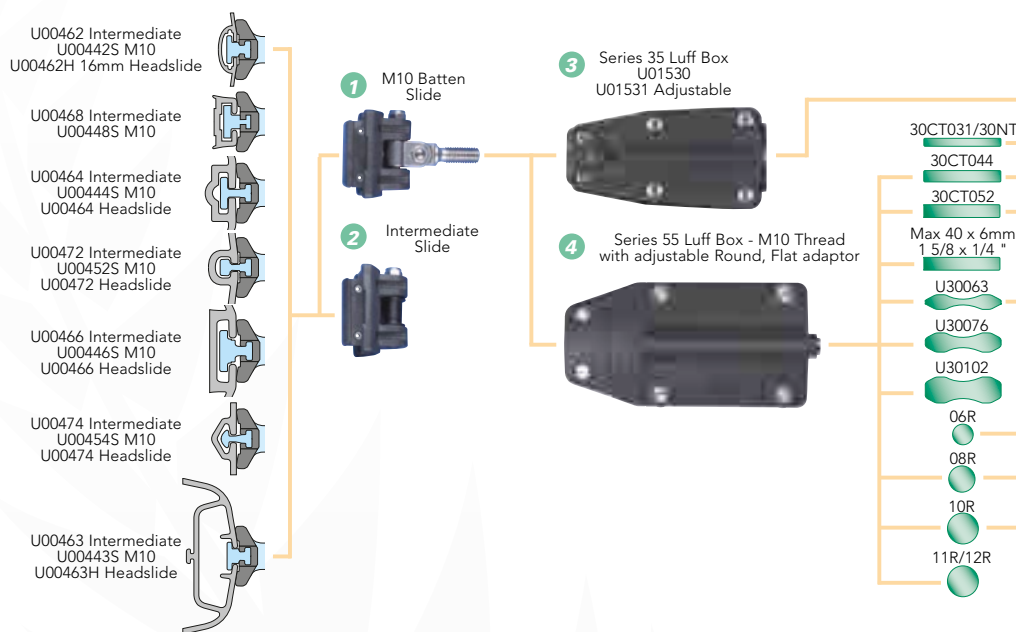
### HEAD SLIDES

- A pressed stainless steel hinge unit links two slides together for extra strength.
- Separate super strong stainless steel head ring connects with clevis pin.

Part No.	Description	Width (mm)	Length (mm)	Weight (gm/oz)
U00462H	Heavy Duty Head Slide 16mm Flat	16.3	114	225-7.9
U00463H	Heavy Duty Head Slide Selden 'C'	16.3	114	225-7.9
U00464H	Heavy Duty Head Slide 19mm Flat	18.8	114	225-7.9
U00466H	Heavy Duty Head Slide 23mm Flat	23	114	225-7.9
U00468H	Heavy Duty Head Slide 24mm Flat	24	114	225-7.9
U00472H	Heavy Duty Head Slide 10mm Slug	10	114	225-7.9
U00474H	Heavy Duty Head Slide 11mm Slug	11	114	225-7.9
U00798	Sailman Heading	84	125	170-6.0

## Sailman 4000 Full Batten Systems

FOR BOATS UP TO 43 FEET (13M) APPROX.



## 1. BATTEN SLIDES:

- Six profiles to fit most modern spars.
- Precision molded from glass fiber reinforced plastic with a PTFE impregnation.
- Solid stainless steel hinge system and connecting arm.
- Low friction compression pads transfer load directly on to aft face of spar.
- All slugs feature stainless steel 'I' beam inserts for extra strength.

## 2. INTERMEDIATE SLIDES:

- Molded cotton reels for web on attachment in intermediate positions.
- Can also be webbed to standard headboards as light duty head slides.

## 3. SERIES 35 BATTEN BOXES:

- Tough injection molded construction.
- Concealed M10 nut for extra strength compared to threaded plastic designs.
- Optional batten tension adjustment with metal drive dog.
- Snap-in guides accommodate flat battens up to 30mm x 6.5mm including U30063 (see page 68) and round battens up to 10mm.

## 4. SERIES 55 BATTEN BOXES:

- Tough injection molded fiber reinforced construction.
- Two slide attachment options: M10 thread or unique Sailman arm that allows simple sail removal by loosening two screws.
- Optional tension adjustment for Sailman battens with metal drive dog.
- Models available to suit round, flat and Sailman battens.

## SAILMAN 4000 COMPONENTS

Part No.	Description	Width/Dia (mm)	Length (mm)	Connection	Weight (gm/oz)
U00462	Intermediate/Slide 16mm Flat	16.3	52	Webbing	61-2.2
U00463	Intermediate/Slide Selden 'C'	16.3	52	Webbing	61-2.2
U00464	Intermediate/Slide 19mm Flat	18.8	52	Webbing	61-2.2
U00466	Intermediate/Slide 23mm Flat	23.0	52	Webbing	61-2.2
U00468	Intermediate/Slide 24mm Flat	24.0	52	Webbing	61-2.2
U00472	Intermediate/Slide 10mm Slug	10.0	52	Webbing	61-2.2
U00474	Intermediate/Slide 11mm Slug	11.0	52	Webbing	61-2.2
U00322	Spare Cotton Reel For Intermediate Slides			Webbing	170-6.0
U00442S	Batten Slide 16mm Flat	16.3	52	M10 Thread	107-3.8
U00443S	Batten Slide Selden 'C'	16.3	52	M10 Thread	107-3.8
U00444S	Batten Slide 19mm Flat	18.8	52	M10 Thread	107-3.8
U00446S	Batten Slide 23mm Flat	23.0	52	M10 Thread	107-3.8
U00448S	Batten Slide 24mm Flat	24.0	52	M10 Thread	107-3.8
U00452S	Batten Slide 10mm Slug	10.0	52	M10 Thread	107-3.8
U00454S	Batten Slide 11mm Slug	11.0	52	M10 Thread	107-3.8

Part No.	Description	Width/Dia (mm)	Length (mm)	Connection	Weight (gm/oz)	Max Batten
U01530	Series 35 Standard Luff Box	62	120	M10 Thread	148-5.3	U30063 or 10R
U01531	Series 35 Luff Box with Batten Tensioner	62	120	M10 Thread	148-5.3	U30063 or 10R
U01520Y	Series 55 Luff box for Sailman Battens, Adjustable, Universal	73	145	M10 Thread	279-9.8	U30102

## INFORMATION POINT

- Slides should be a snug fit and bear on aft face of mast.





# Contents

<b>Battens</b>	<b>186-189</b>
<b>Batten Fittings</b>	<b>190-193</b>
<b>Sail Hardware</b>	<b>194-207</b>
<b>Tapes &amp; Ropes</b>	<b>208-209</b>
<b>Rings &amp; Grommets</b>	<b>210</b>
<b>Webbing</b>	<b>211-212</b>
<b>Insignia &amp; Adhesive Material</b>	<b>213-215</b>
<b>Seaming Tapes</b>	<b>216-218</b>



RBS have been manufacturing battens for both windsurfing and yachting since 1985. In 1990 they introduced the flexible epoxy matrix and the pulform process. These battens have become the benchmark for windsurfing and yachting.

### BENEFITS

- Outstanding durability.
- Excellent stiffness.
- Light-weight.
- Specially designed tapers to suit modern sail designs.
- All epoxy construction.
- Range of stiffness' available.
- Manufactured from E Glass.
- Range of thickness' with common widths maximize efficiency.

### RBS RANGE

- 'Flex Tip': Designed for leech battens. Manufactured from epoxy and E Glass.
- Compression: Designed for full length battens. Manufactured in Epoxy.
- Non Tapered Battens: Available as special order using the same RBS epoxy construction.
- Batten Sets: We stock sets of battens for J-24, J-22, Mumm 30, Melges 24. Other one-designs are available on request.

### WIDTH

Using the special flexible EPOXY matrix and by controlling the glass to resin ratio, the stiffness is defined by the thickness, allowing us to manufacture a narrower batten without losing any stiffness or fear of breakage.

### TAPERING

The battens are tapered on a custom made tapering machine insuring quality and properly tapered battens for the specific location in your sail. Because of the special EPOXY resin matrix we can taper the flex tip battens without fear of breakage!

### MATERIALS - EPOXY BATTEN

RBS epoxy battens are constructed with unidirectional 'E' glass fibers that are pretensioned and aligned during the impregnation and curing process in a special EPOXY resin matrix. This manufacturing technique makes for an extremely durable virtually unbreakable batten!

### E-GLASS CONSTRUCTION



© Beken of Cowes

### 10MM EPOXY 'FLEX TIP' BATTENS - STANDARD TAPER

'Flex Tip' Battens: Designed for leech battens in mainsails and jibs. The tips are very soft and the tails are very stiff. The battens are extremely durable - unbreakable.

Thickness	Lengths (mm)								
	500	600	700	800	900	1000	1200	1400	1600
0.100	E10100/050	E10100/060							
0.120	E10120/050	E10120/060	E10120/070	E10120/080					
0.140	E10140/050	E10140/060	E10140/070	E10140/080	E10140/090	E10140/100			
0.160				E10160/080	E10160/090	E10160/100	E10160/120		
0.180			E10180/070	E10180/080	E10180/090	E10180/100		E10180/140	
0.200									E10200/160

**NOTE:** For our full RBS range please refer to our 2011 Sailmakers' Price List.



© Rick Tomlinson

### 15MM EPOXY 'FLEX TIP' BATTENS - STANDARD TAPER

'Flex Tip' Battens: Designed for leech battens in mainsails and jibs. The tips are very soft and the tails are very stiff. The battens are extremely durable - unbreakable.

Thickness	Lengths (mm)										
	800	1000	1200	1400	1600	1800	2100	2400	2700	3000	3600
0.160	E15160/080F	E15160/100F	E15160/120F								
0.180		E15180/100F	E15180/120F	E15180/140F							
0.200			E15200/120F	E15200/140F	E15200/160F	E15200/180F					
0.230	E15230/080F	E15230/100F	E15230/120F	E15230/140F	E15230/160F	E15230/180F		E15230/240F			

### 19MM EPOXY 'FLEX TIP' BATTENS - STANDARD TAPER

'Flex Tip' Battens: Designed for leech battens in mainsails and jibs. The tips are very soft and the tails are very stiff. The battens are extremely durable - unbreakable.

Thickness	Lengths (mm)											
	600	800	1000	1200	1400	1600	1800	2100	2400	2700	3000	3600
0.160	E19160/060F	E19160/080F	E19160/100F	E19160/120F	E19160/140F							
0.180		E19180/080F	E19180/100F	E19180/120F	E19180/140F							
0.200		E19200/080F	E19200/100F	E19200/120F	E19200/140F	E19200/160F	E19200/180F					
0.230		E19230/080F	E19230/100F	E19230/120F	E19230/140F	E19230/160F	E19230/180F					
0.265			E19265/100F	E19265/120F	E19265/140F	E19265/160F	E19265/180F	E19265/210F	E19265/240F		E19265/300F	
0.300				E19300/120F	E19300/140F	E19300/160F	E19300/180F	E19300/210F	E19300/240F	E19300/270F	E19300/300F	

### 19MM EPOXY 'COMPRESSION' BATTENS

'Compression' Battens: Designed for full length battens for boardsails, dinghys, iceboats, catamarans and yacht mainsails. The inboard end is typically half the thickness of the outboard end, with approximately 40-45% taper.

Thickness	Lengths (mm)											
	800	1000	1200	1400	1600	1800	2100	2400	2700	3000	3300	3600
0.160	E19160/080C	E19160/100C	E19160/120C	E19160/140C	E19160/160C	E19160/180C						
0.180			E19180/120C	E19180/140C	E19180/160C	E19180/180C						
0.200	E19200/080C	E19200/100C	E19200/120C	E19200/140C	E19200/160C	E19200/180C						
0.230	E19230/080C	E19230/100C	E19230/120C	E19230/140C	E19230/160C	E19230/180C	E19230/210C					
0.265		E19265/100C	E19265/120C	E19265/140C	E19265/160C	E19265/180C	E19265/210C	E19265/240C				
0.300							E19300/210C		E19300/270C	E19300/300C	E19300/330C	E19300/360C

**NOTE:** For our full RBS range please refer to our 2011 Sailmakers' Price List.

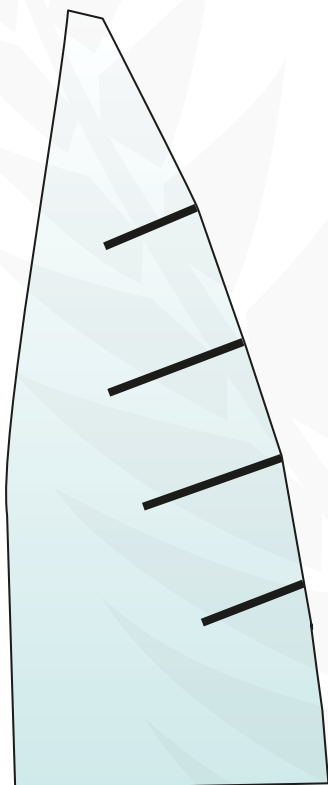
# Sailcloth Hardware

## Dinghy Aquabattens®

### 10mm/<sup>3</sup>/<sub>8</sub>" & 15mm/<sup>5</sup>/<sub>8</sub>" LEECH AQUABATTENS

Taper-laminated glassfiber Aquabattens have become the recognized standard for the world's racing dinghy sailmakers.

- Dinghy Aquabattens are specifically designed as a lightweight durable leech batten for dinghy sails, and are suitable up to a boat size of approximately 18 feet.
- Prices do NOT include endcaps.

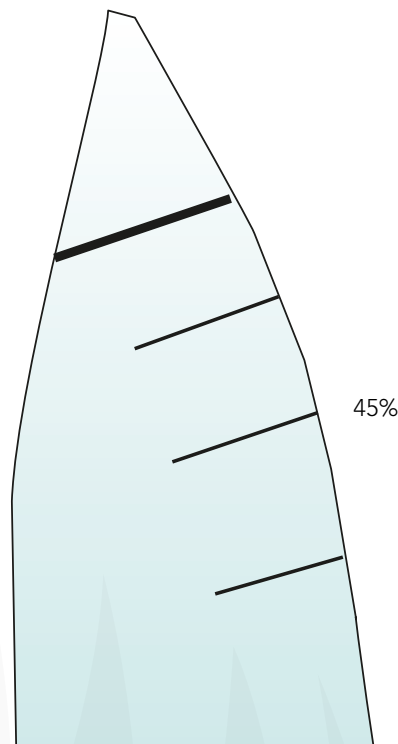


### 15MM/<sup>5</sup>/<sub>8</sub>" TOP AQUABATTENS

Taper-laminated glassfiber Aquabattens have become the recognized standard for the world's racing dinghy sailmakers.

- Standard Top battens provide more support and are designed as full length battens for sails with a limited roach.

Prices do NOT include endcaps.



Part No.		Description	Length (when endcaps fitted)	
10mm / <sup>3</sup> / <sub>8</sub> "	15mm / <sup>5</sup> / <sub>8</sub> "		mm	in
10D12	15D12	Leech	305	12
10D15	15D15	Leech	381	15
10D18	15D18	Leech	457	18
10D21	15D21	Leech	533	21
10D24	15D24	Leech	610	24
10D27	15D27	Leech	686	27
10D30	15D30	Leech	762	30
10D33	15D33	Leech	838	33
10D36	15D36	Leech	914	36
10D39	15D39	Leech	991	39
10D40	15D40	Leech	1016	40
10D42	15D42	Leech	1067	42
10D45	15D45	Leech	1143	45
10D48	15D48	Leech	1219	48
	15D1400	Leech	1400	55 <sup>1</sup> / <sub>8</sub>
	15D1600	Leech	1600	63
	15D1800	Leech	1800	70 <sup>7</sup> / <sub>8</sub>

Part No.	Style	Length (when endcaps fitted)	
		mm	in
15D1200T45	Top	1200	47 <sup>1</sup> / <sub>4</sub>
15D1400T45	Top	1400	55 <sup>1</sup> / <sub>8</sub>

### ENDCAPS FOR AQUABATTENS

- Please note that endcaps must be ordered separately.
- 15DWEC are for use with wider batten pockets.



### SPECIAL ORDER ITEM

Other lengths and widths are available to special order. All special order items are subject to minimum order quantities and additional lead times. Prices on application.



Part No.	Position	Max Width		To Fit Battens	Pack Qty
		mm	in		
10DECI	Inner	15	<sup>5</sup> / <sub>8</sub>	10D	100
10DECO	Outer	15	<sup>5</sup> / <sub>8</sub>	10D	100
15DNECI	Inner	18	<sup>11</sup> / <sub>16</sub>	15D, 15D Top	100
15DNECO	Outer	18	<sup>11</sup> / <sub>16</sub>	15D, 15D Top	100
15DWEC	Pair	38	1 1/2	15D, 15D Top	100



# Sailcloth Hardware

## Untapered Battens

### ROUND BATTENS

Outstanding stiffness to weight combined with low cost make round section pultrusions an excellent choice for full batten applications although they are more liable to breakage and can cause sail chafe.

- Considerably better stiffness/weight ratio than flat battens.



Part No.	Width: (mm)	Stiffness	Deflection	Weight: (gsm/oz)	Length: (m/)
6ROD	6mm / 1/4"	1,000		52 / 0.56	6.1 / 20
8ROD	8mm / 5/16"	3,500		88 / 0.95	6.1 / 20
10ROD	10mm / 3/8"	9,000	58	144 / 1.55	6.1 / 20
11ROD	11mm / 7/16"	17,000	29	211 / 2.27	6.1 / 20
15ROD	16mm / 5/8"	60,000	9	286 / 3.07	7.6 / 25
20ROD	19mm / 3/4"		5	560 / 6.03	7.6 / 25

### ENDCAPS FOR FLAT BATTENS

- Use these endcaps for untapered batten styles.



15CTWT



15MEC



15CTECI



15CTECO



15CTJM



24CTEC



25CTJM



30CEC



30CTEC



35MEC



40CEC



A150

Part No.	Use With Battens	Overall Width: mm/in	Pack Qty
15CTWT	15NT	22 / 7/8	100
15MEC	15NT	22 / 7/8	100
15CTECI	15NT, 15NTS	20 / 3/4	100
15CTECO	15NT, 15NTS	20 / 3/4	100
15CTJM	15NT, 15D	20 / 3/4	100
24CTEC	25NTR, 25NTS	28 / 3/4	100
25CTJM	25NTM	28 / 1 1/8	100
30CEC	30NT	35 / 1 3/8	100
30CTEC	30CT044/30CT052	35 / 1 3/8	100
35MEC	35NT	38 / 1 1/2	100
40CEC	40NT	42 / 1 5/8	100
A150	16HCP	28 / 1 1/8	100

### ENDCAPS FOR ROUND BATTENS

- Manufactured from nylon.
- Spreads load at end of sail pocket.

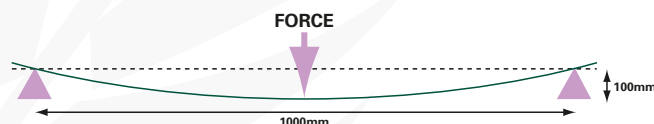


Part No.	Use With Batten	Width: mm/in	Pack Qty
06REC	06R	20.0 / 13/16	10
08REC	08R	20.0 / 13/16	10
10REC	10R	32.5 / 1 1/16	10
12REC	11RD/12R/12T	32.5 / 1 1/16	10
16REC	15RD	50.0 / 2	10
20REC	20RD	50.0 / 2	10

### STIFFNESS

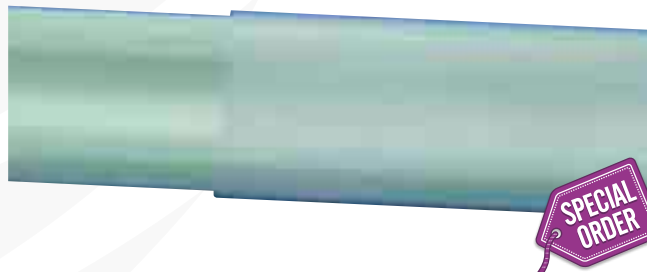
Stiffness is calculated as load needed to deflect by 100mm a 1 meter length, supported at both ends. The load is measured in grammes.

Deflection at 5kgs: Stiffer sections cannot be tested by the above method, and these are tested by measuring the deflection in millimeters under a fixed load of 5kgs.



### BATTEN KOTE

Batten Kote is a unique heavy duty heat shrink tubing. Used to fully encapsulate Sailman batten, it protects from chafe and in the unlikely event of breakage allows the batten to be withdrawn cleanly and in one piece. Apply using a heat gun.



Part No.	Description	Reel Length: ft
U40000	Reel of Batten Kote	100

# Sailcloth Hardware

## Pocket Protectors & Pocket Elastic

### BATTEN POCKET PROTECTORS FOR DINGHY SAILS

- Semi-circular seat permits wide range of batten angles
- Smoothly radiused nose gives low friction contact with the mast.
- Price includes screws.



Part No.	Max Batten Width: (mm)	Max Cavity Depth: (mm)	Pack Qty
HA001	15 / 5/8	14 / 1/2	100

### BATTEN POCKET PROTECTORS FOR DINGHY AND CATAMARAN SAILS

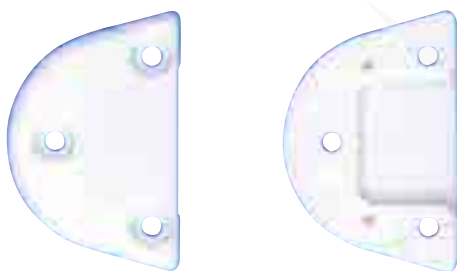
- Semi-circular seat permits wide range of batten angles.
- Smoothly radiused nose gives low friction contact with the mast.
- Price includes screws for A002.
- A302 includes 6 hi-load screws.



Part No.	Max Batten Width: (mm)	Max Cavity Depth: (mm)	Pack Qty
HA002	30 / 1 1/8	25 / 1	100
HA302	30 / 1 1/8	20 / 3/4	100

### BATTEN POCKET PROTECTORS FOR JIBS

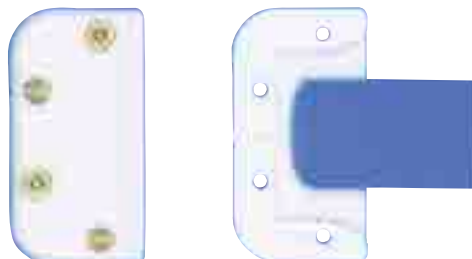
- Sold in sets: 2 halves - sold as a complete pair.
- 1/8 inch rivets not included.



Part No.	Max Batten Width: mm/in	Max Cavity Depth: mm/in	Pack Qty
HA000	15 / 3/8	15 / 3/8	100

### BATTEN POCKET PROTECTORS FOR LARGER CATAMARAN SAILS

- Method of attachment gives excellent resistance to side loads.
- Smoothly radiused nose gives low friction contact with the mast.
- Price includes screws and nuts.



Part No.	Max Batten Width: (mm)	Max Cavity Depth: (mm)	Pack Qty
HA006	40 / 1 5/8	24 / 1	50

### BATTEN POCKET PROTECTORS FOR LARGE CRUISING SAILS

- Suitable for wider battens on cruising catamarans.
- Price includes screws.



Part No.	Max Batten Width: (mm)	Max Cavity Depth: (mm)	Pack Qty
HA005	60 / 2 3/8	30 / 1 1/8	25

### BATTEN POCKET ELASTIC

- Manufactured from woven elastic which does not narrow under stretch.
- Polyester covering.
- Available only on full reels.



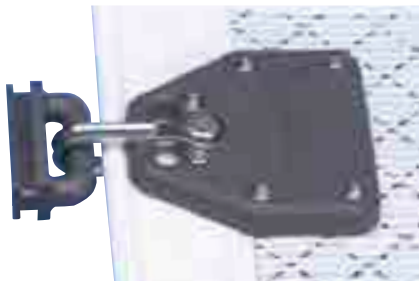
Part No.	Width: mm/in	Roll Length: m/yd
E551	19 / 3/4	33 / 36
E552	25 / 1	33 / 36
E553	38 / 1 1/2	46 / 50
E554	50 / 2	46 / 50

# Sailcloth Hardware

## Batten Tensioners & End Fittings

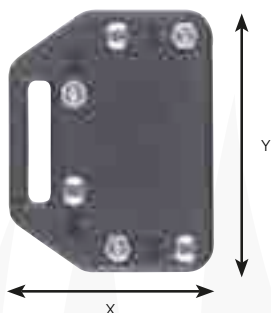
### END FITTINGS FOR FULL BATTEN YACHT SAILS

These fittings are recommended for use on simple designs of fully battened mainsails where the higher cost of more elaborate fittings is not justified. Batten tensioning is normally achieved by the use of leech end ties, webbing or Velcro®.



### END FITTINGS FOR 30mm/1 1/4" FLAT BATTENS

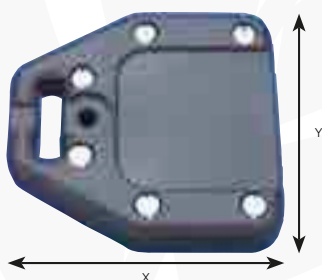
- Manufactured in reinforced nylon, with type 316 stainless steel screws.
- Can be used as a leech fitting or luffbox with Allslip slides.
- Attaches to slide with webbing.
- Sold complete: 2 halves with screws and nuts.



Part No.	Max Batten Size: (mm)	Max Cavity Depth: (mm)	X (mm)	Y (mm)
HA300BK	30x6.5 / 1 1/4 x 1/4	40 / 1 1/2	43 / 1 11/16	55 / 2 1/8

### END FITTINGS FOR 45mm/1 3/4" FLAT BATTENS

- Manufactured in reinforced nylon, with type 316 stainless steel screws.
- Can be used as a leech fitting or luffbox with Allslip slides.
- Attaches to slide with webbing or with shackle A303.
- Sold complete: 2 halves with screws and locking nuts.



Part No.	Max Batten Size: (mm)	Max Cavity Depth: (mm)	X (mm)	Y (mm)
HA303BK	46x7 / 1 3/4 x 1/4	47 / 1 3/4	80 / 3 1/8	76 / 3
HA303WT	46x7 / 1 3/4 x 1/4	47 / 1 3/4	80 / 3 1/8	76 / 3

### SHACKLE FOR ATTACHMENT OF A303

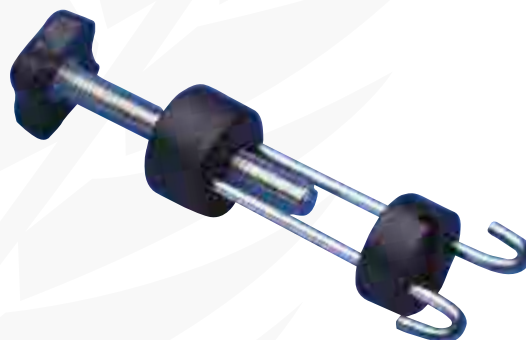
- Manufactured from type 316 stainless steel fittings.
- Custom designed for use with A303.



Part No.	Length: (mm)	Width: (mm)
HB303	42 / 1 3/8	12 / 1/2

### SCREW COMPRESSION FITTING

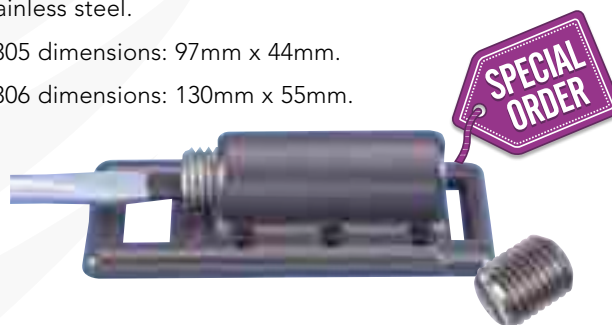
- Suitable for use with full batten mainsails on catamarans up to 6m/20 feet.
- Attach into size 00 grommets on each side of batten pocket.



Part No.	Max Batten Thickness: (mm)	Pack Qty
HA082	8 / 5/16	10

### END FITTINGS FOR ROUND BATTENS

- Manufactured in reinforced nylon, with type 316 stainless steel fittings.
- Can also be used as a leech fitting.
- Spare compression screws manufactured in type 316 stainless steel.
- A305 dimensions: 97mm x 44mm.
- A306 dimensions: 130mm x 55mm.



Part No.	Comprising	Use With
HA305BK	Gray with backplate & attaching screws/nuts & compression screw	06R-12R
HA305SS	Stainless steel screw	A305
HA306BK	Gray with backplate & attaching screws/nuts & compression screw	16R-20R
HA306SS	Stainless steel screw	A306



# Sailcloth Hardware

## SDA Full Batten Fittings

### SDA FITTINGS

These fittings, manufactured by SDA, are suitable for fully battened mainsails on boats up to 40 ft. Types are offered for either flat section or round section battens and all are compatible with a wide range of track slides including Sailman 3000, 4000 and 5000 systems.

#### FOR BATTENS UP TO 40mm X 5mm

- Molded in reinforced nylon.
- All fittings are in type 316 stainless steel.
- Luff box connects to slide with M10 thread.
- **Fitting dimensions:** 100mm x 70mm.



Part No.	Comprizing	Type
A453	Box, complete with backplate/top cover plate & attaching screws	Luff
A454	Box, complete with backplate/top cover plate & attaching screws compression screw & locknut	Leech

#### MICRO FITTINGS FOR BATTENS UP TO 8mm DIAMETER

- Molded in reinforced nylon.
- All fittings are in type 316 stainless steel.
- Can be used as luff or leech box. Connects to slide with M10 thread.
- **Fitting dimensions:** 80mm x 38mm.



Part No.	Comprizing	Type
A4081	Box, complete with backplate/attaching screws & nuts/compression screw	Leech/Luff

#### SMALL FITTINGS FOR BATTENS FROM 10mm TO 12mm DIAMETER

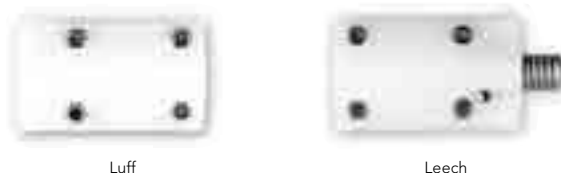
- Molded in reinforced nylon.
- All fixings are in light-weight alloy.
- Luff box connects to slide with M10 thread.
- **Fitting dimensions:** A4122 - 65mm x 50mm  
A4121, A4121 - 80mm x 50mm.



Part No.	Comprizing	Type
A4122	Box, complete with backplate/attaching screws & nuts	Luff
A4121	Box, complete with backplate/attaching screws & nuts/compression screw	Leech

#### MEDIUM FITTINGS FOR BATTENS FROM 12mm TO 16mm DIAMETER

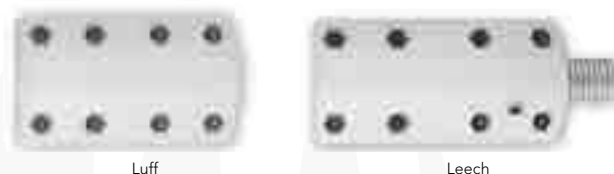
- Molded in reinforced nylon.
- All fixings are in light-weight alloy.
- Luff box connects to slide with M10 thread.
- **Fitting dimensions:** A4162 - 80mm x 50mm  
A4161 - 80mm x 50mm



Part No.	Comprizing	Type
A4162	Box, complete with backplate/attaching screws & nuts	Luff
A4161	Box, complete with backplate/attaching screws & nuts/compression screw	Leech

#### LARGE FITTINGS FOR BATTENS FROM 16mm TO 20mm DIAMETER

- Molded in reinforced nylon.
- All fixings are in light-weight alloy.
- Luff box connects to slide with M10 thread.
- **Fitting dimensions:** A4202 - 100mm x 50mm.  
A4201 - 120mm x 50mm.



Part No.	Comprizing	Type
A4202	Box, complete with backplate/attaching screws & nuts	Luff
A4201	Box, complete with backplate/attaching screws & nuts/compression screw	Leech

#### COUPLINGS

- Cardan joint coupling features a heavy duty universal joint.



B729



B723

Part No.	Description	Attachment For Use With
B723	Articulated Coupling	A419 - A423 Slide Pads
B729	Intermediate Slide Coupling	A419 - A423 Slide Pads



# Sailcloth Hardware

## SDA Full Batten Fittings

### CONNECTOR



Part No.	Attachment For Use With
B722	B723

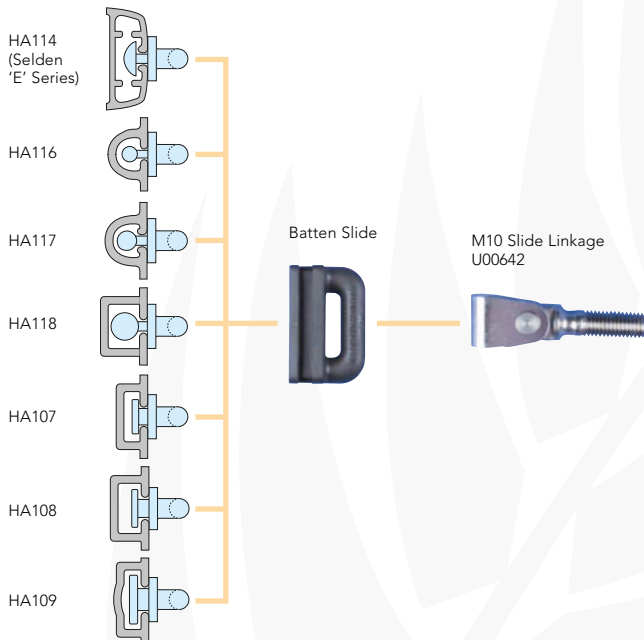
### SLIDE PADS

- Machined from low friction plastic alloy.
- Price includes screws for fitting to B720/B723/B729.



Part No.	Attachment For Use With	Length: (mm)
A419	Masts with 19mm groove/B723/B720/B729	70 / 2 3/4
A423	Masts with 24mm groove/B723/B720/B729	77 / 3

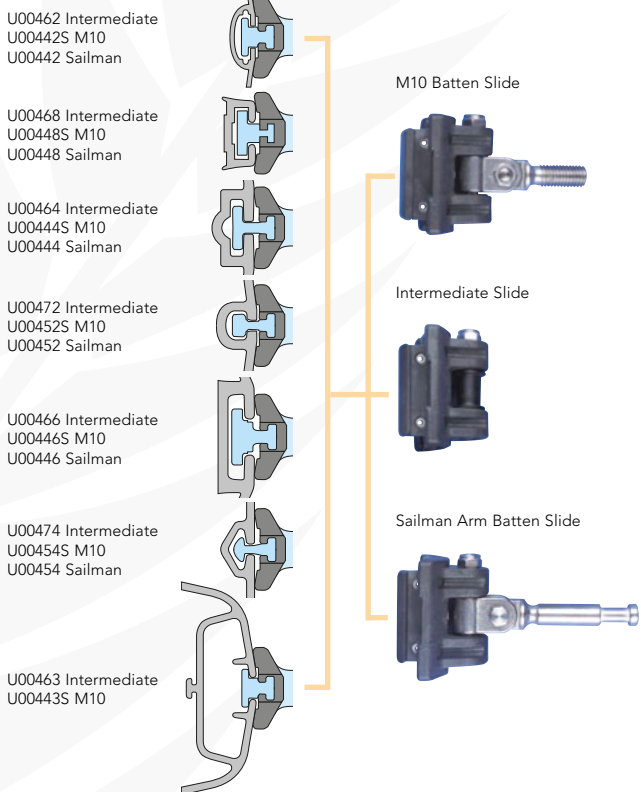
### SAILMAN 3000



### SDA FITTINGS CHART

Selected Batten Size	Mast Slide	Coupling	Connector	Luff + Leech Fitting
Up to 40mm Flat	A419-A423 Sailman 3000 Sailman 4000 Sailman 5000	B723 U00642 M10 M10	B722 - - -	A5453 + A454
Up to 8mm Round	A419-A423 Sailman 3000 Sailman 4000 Sailman 5000	B723 U00642 M10 M10	B722 - - -	A4081 + A4081
Up to 12mm Round	A419-A423 Sailman 3000 Sailman 4000 Sailman 5000	B723 U00642 M10 M10	B722 - - -	A4122 + A4121
Up to 16mm Round	A419-A423 Sailman 4000 Sailman 5000	B723 M10 M10	B722 - -	A4162 + A4161
Up to 20mm Round	A419-A423 Sailman 5000	B720 M10	- -	A4202 + A4201

### SAILMAN 4000

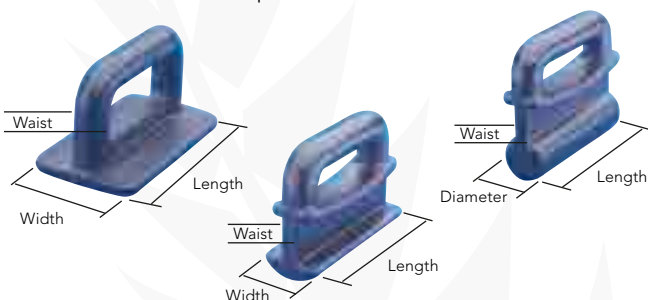


# Sailcloth Hardware

## Track Slides

### TRACK SLIDE MEASUREMENTS

Bainbridge International's track slides have been carefully designed to allow compatibility with the widest possible range of mast sections. Design and material selection leads to trouble-free use and maximum strength even under the most arduous conditions. High strength metal slides are also available for each type of track to be used in the more highly stressed head and clew positions.



### INTERNAL FLAT SLIDES - PLASTIC

- Injection molded in nylon 66.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA007	15.8 / $\frac{5}{8}$	6.8 / $\frac{1}{4}$	30 / $1\frac{1}{16}$	100
HA008	19.0 / $\frac{3}{4}$	9.0 / $\frac{3}{8}$	33 / $1\frac{1}{16}$	100
HA009	22.2 / $\frac{7}{8}$	11.0 / $\frac{7}{16}$	35 / $1\frac{1}{16}$	100

### INTERNAL FLAT SLIDES - STAINLESS STEEL

- Cast stainless steel, electro-polished.
- Low friction PTFE coating.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB307	16 / $\frac{5}{8}$	7 / $\frac{1}{4}$	40 / $1\frac{1}{16}$	10
HB308	20 / $\frac{3}{4}$	7 / $\frac{1}{4}$	40 / $1\frac{1}{16}$	10
HB309	22 / $\frac{7}{8}$	7 / $\frac{1}{4}$	40 / $1\frac{1}{16}$	10

### PROCTOR MAST SLIDES

- Cast stainless steel encapsulated in low friction injection molded nylon.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB009	24 / $1\frac{5}{16}$	11 / $\frac{7}{16}$	50 / 2	10
HB010	30 / $1\frac{1}{16}$	16 / $\frac{5}{8}$	50 / 2	10

### HOLT ALLEN SLIDES - PLASTIC

- Alternate style to A009 slide.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
A0091	22 / $\frac{7}{8}$	11 / $\frac{7}{16}$	39 / $1\frac{1}{16}$	100

### METAL MAST SLIDES - PLASTIC

- Designed for use in the Metal Mast system.



Part No.	Width (mm)	Waist (mm)	Size Reference	Pack Qty
HA006M	20 / $\frac{3}{4}$	10 / $\frac{3}{8}$	6	100
HA008M	24 / $1\frac{5}{16}$	11 / $\frac{7}{16}$	8	100

### BRONZE FLAT INTERNAL TRACK SLIDES

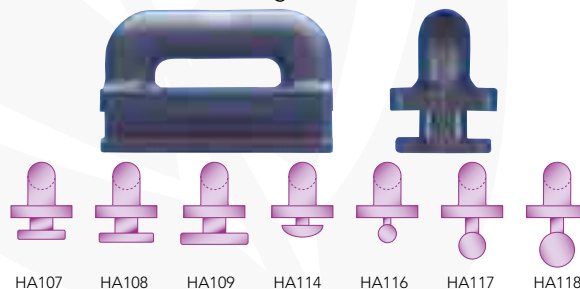
- Designed for use in the Metal Mast system.
- Used at the headboard, clew outhaul or around/near luff reef rings.



Part No.	Width (mm)	Waist (mm)	Size Reference	Pack Qty
B006	20 / $\frac{3}{4}$	10 / $\frac{3}{8}$	6	100
B008	24 / $1\frac{5}{16}$	11 / $\frac{7}{16}$	8	100

### ALLSLIP INTERNAL LOW FRICTION SLIDES

- Manufactured from low friction nylon plastic alloy.
- Overall length of 45mm gives good bearing surface.
- Positive location in mast groove for free running in compression and tension.
- A114 is specially designed for use in Selden Mast Sections fitted with flush gates.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA107	15.8 / $\frac{5}{8}$	7.0 / $\frac{1}{4}$	45 / $1\frac{3}{4}$	10
HA108	19.0 / $\frac{3}{4}$	9.0 / $\frac{3}{8}$	45 / $1\frac{3}{4}$	10
HA109	22.2 / $\frac{7}{8}$	11.0 / $\frac{7}{16}$	45 / $1\frac{3}{4}$	10
HA114	15.6 / $\frac{5}{8}$	4.4 / $\frac{3}{16}$	45 / $1\frac{3}{4}$	10
HA116	8.0 / $\frac{5}{16}$	4.0 / $\frac{5}{32}$	45 / $1\frac{3}{4}$	10
HA117	9.3 / $\frac{3}{8}$	4.0 / $\frac{5}{32}$	45 / $1\frac{3}{4}$	10
HA118	12.5 / $\frac{1}{2}$	4.0 / $\frac{5}{32}$	45 / $1\frac{3}{4}$	10



# Sailcloth Hardware

## Track Slides

### SELDEN MAST SLIDES - PLASTIC

- A011 and A012 are designed for Selden's new range of sections.



A011/A012

Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA011	20 / $\frac{3}{4}$	8.5 / $\frac{1}{2}$	30.0 / $1\frac{1}{16}$	100
HA012	20 / $\frac{3}{4}$	8.5 / $\frac{1}{2}$	40.0 / $1\frac{5}{8}$	10

### SELDEN MAST SLIDES - PLASTIC

- A015 is especially designed for use on boats over 40 feet.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA013	11 / $\frac{7}{16}$	3 / $\frac{1}{8}$	22 / $\frac{7}{8}$	100
HA014	14 / $\frac{9}{16}$	4 / $\frac{5}{32}$	30 / $1\frac{3}{16}$	100
HA015	15 / $\frac{5}{8}$	4 / $\frac{5}{32}$	40 / $1\frac{5}{8}$	10

### SELDEN MAST SLIDES - STAINLESS STEEL

- Cast stainless steel, electro-polished.
- Low friction PTFE coating.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB044	14 / $\frac{9}{16}$	4 / $\frac{5}{32}$	37 / $1\frac{1}{16}$	10



### SAILMAN 3500 SLIDES

Sailman 3500 slides are ideal for use as head and luff slides in composite spars or masts with very narrow grooves. The slides are molded from the latest high strength, low friction plastics so there are no metal parts that could wear composite sections or damage anodizing.

- The U00377 has an ultra thin 3.4mm waist that makes these one of the few high strength slides that is suitable for sections originally designed for bolt ropes. They are also ideal for wing masts.
- The three flat versions are ideally suited as full batten slides for spars with sail feeding gates that stand proud of the aft face of the mast.
- All plastic construction to eliminate wear on anodizing and composite sections.
- High strength and low friction for efficient operation.
- Easy web on attachment to sail.



Part No.	Width (mm)	Waist (mm)	Length (mm)
U00361	15.5 / $\frac{5}{8}$	7.3 / $\frac{5}{32}$	55 / $2\frac{3}{16}$
U00363	17.9 / $\frac{23}{32}$	8.7 / $\frac{11}{32}$	55 / $2\frac{3}{16}$
U00365	21.5 / $\frac{27}{32}$	10.3 / $\frac{13}{32}$	55 / $2\frac{3}{16}$
U00377	8.8 / $\frac{11}{32}$	3.4 / $\frac{1}{8}$	55 / $2\frac{3}{16}$

# Sailcloth Hardware

## Track Slides

### INTERNAL SLUG SLIDES - PLASTIC

- Injection molded in nylon 66



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA016	7.9	3	27	100
HA017	9.3	3	27	100
HA018	12.5	3	27	100

### SLUG SLIDES WITH WELDED STAINLESS STEEL BAIL

- Molded-in welded bail gives maximum strength



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA016S	6.9	2.5	27	100
HA017S	8.1	2.5	27	100
HA019S	10.0	3.4	30	100
HA018S	11.0	3.4	30	100

### INTERNAL SLUG SLIDES - STAINLESS STEEL

- Cast stainless steel, electro-polished.
- Low friction PTFE coating.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB035	8.0	3.5	37	10
HB036	8.6	3.5	37	10
HB037	11.0	3.5	37	10

### HEAVY DUTY SLUG SLIDES WITH MOLDED-IN BAIL

- Injection molded in low-friction nylon, with captive stainless steel bail.
- Also used for mainsail tack to give close-in attachment of sail to mast.



A031

Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA031	8.0	3	50	10
HA032	9.3	3	50	10
HA033	12.5	4	75	10

### INTERNAL SLUG SLIDES - CAST ALLOY

- Diecast in aluminum alloy and coated with teflon.



B102

Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB101	12	2.5	38	10
HB102	12	4.0	72	10

### HEAVY DUTY SLUG SLIDES - STAINLESS STEEL

- Diecast in stainless steel, electro-polished.
- Low friction PTFE coating.

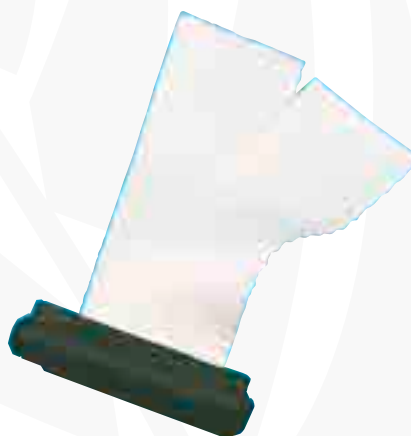


Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HB011	8.0	3	60	10
HB012	10.0	3	60	10
HB013	12.5	3	60	10

### KIWI SLIDES

- Easily installed by sewing directly onto the sail. No shackles required.
- Can be used in groove headstay systems.

Special order products.



Part No.	Diameter	Length (mm)	Pack Qty
KIWI6/40	5.72	33	10
KIWI7/50	6.78	33	10
KIWI8/60	7.80	33	10
KIWI9/70	9.06	33	10



# Sailcloth Hardware

## Track, Slides & Mast Hoops

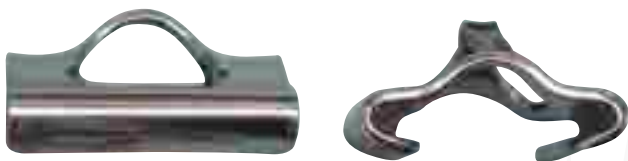
### PRE-DRILLED STAINLESS STEEL SAIL TRACK

- Pre-drilled holes suitable for screws less than 3/16 inch diameter.
- Track sold in full lengths only.



Part No.	Track Width (mm)	Track Length (m/ft)	Use with Slide
B952	18	3.7	B014
B972	22	3.7	B015

### EXTERNAL SLIDES - STAINLESS STEEL



Part No.	Track Size (mm)	Pack Qty
HB014SS	15.0	100
HB015SS	22.2	100
HB016SS	25.1	100

### EXTERNAL SLIDES - CAST BRONZE

- Traditional style slides for sail or "T" track.
- Ideal for webbing onto sail.
- Use where greater strength is required, such as head and clew areas of mainsails.



Part No.	Track Size (mm)	Pack Qty
HQ110	22.2	10
HQ111	25	10

### PLASTIC MAST HOOPS

- Easily snaps together without tools.
- Most commonly used with Sunfish, Sailfish, Vikings or other Lateen rigged boats.



Part No.	Description	Pack Qty
A029	Sail Ring for 1 1/2" Tube	100

### WOOD MAST HOOPS - COPPER RIVETED

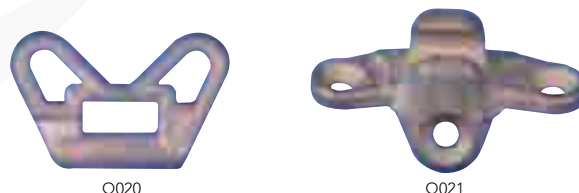
- White oak, steamed to bend into rings and then finished with oil and shellac.
- Other sizes of mast hoops, either bolted or copper riveted are available against special order.
- Rule of thumb when ordering mast hoops: Inside diameter of a mast hoop should be 25% larger than the diameter of the mast at its greatest point.



Part No.	Hoop Diameter (mm)
Q603	76
Q604	102
Q605	127
Q606	152
Q607	177
Q608	203
Q610	254
Q612	305

### MAST HOOP SAIL FASTENERS

- Two-part fasteners, one male to sew on to the sail, the other female to attach to mast hoop.
- Use flat head wood screws to attach female section of fastener to mast hoop.
- Male part is attached to sail with either sailtwine or waxed hand sewing thread.



Part No.	Description	Pack Qty
Q020	Male	10
Q021	Female	10

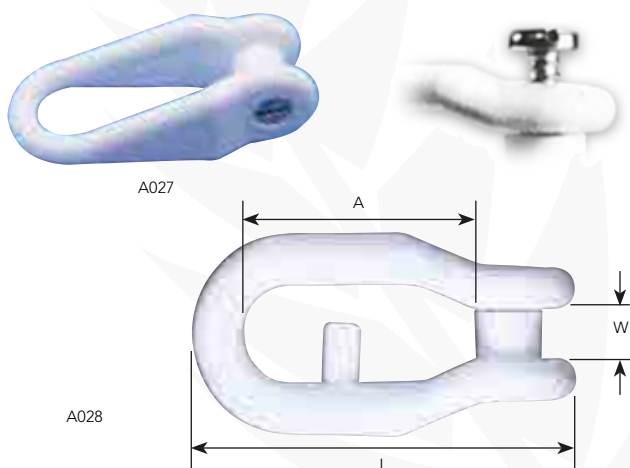
# Sailcloth Hardware

## Shackles

### SCREW-ON SHACKLES - PLASTIC

Bainbridge International's plastic shackles are designed for ease of use, high strength and ability to absorb shock loads. The screw design is strongest and permits easy detachment and re-attachment.

- Injection molded from a tough nylon to absorb sudden impact loads.
- A027 to be used with A007/A008/A013/A016/A017/A018/A019/A006M.
- A028 to be used with A009/A014/A018/A008M.
- Shackles supplied complete with screws.

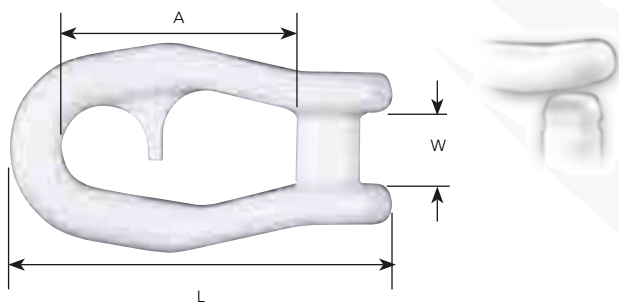


Part No.	Description	A (mm)	L (mm)	W (mm)	Pack Qty
HA027	Small/Standard	28	45	10	100
HA028	Large/Anti-Jamming	27	47	11	100

### SNAP-IN SHACKLES - PLASTIC

Bainbridge International's plastic shackles are designed for ease of use, high strength and ability to absorb shock loads. The unique snap design is often preferred as an easier to fit alternative.

- Injection molded from a tough nylon to absorb sudden impact loads.
- Unique design of snap to give reduced elongation under load and higher strength.
- A023 to be used with A007/A008/A013/A016/A017/A006M.
- A024 to be used with A009/A014/A018/A008M.

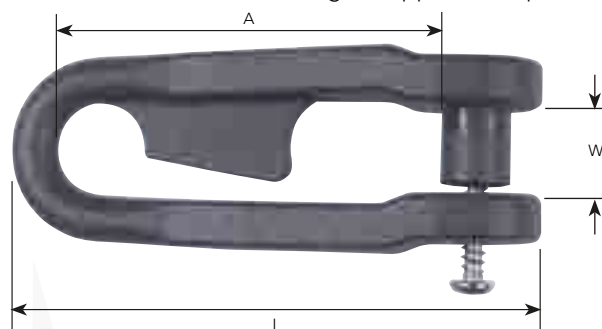


Part No.	Description	A (mm)	L (mm)	W (mm)	Pack Qty
HA023	Small/Standard	22	39	10	100
HA024	Large/Anti-Jamming	28	45	11	100

### LONG REACH SCREW-ON SHACKLES

The long reach shackle is specifically designed for connecting our regular plastic and Allslip slides to full batten sails including those equipped with Sailman 3000, 3500 and 4000 systems.

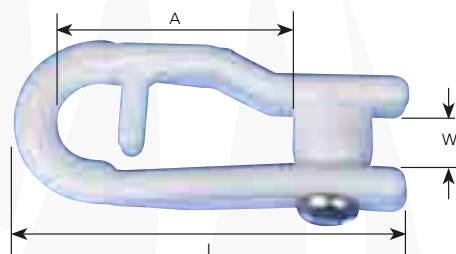
- A035BK to be used with all 7 Allslip slides as well as: A007, A008, A009, A017 and A018.
- Unique anti-jamming design retains the slide at the head of the shackle.
- Color co-ordinated to match Sailman and Allslip slides.
- Screw-on closure for extra strength, supplied complete.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA035BK	45	61	11	100

### SCREW-ON SHACKLES - PLASTIC

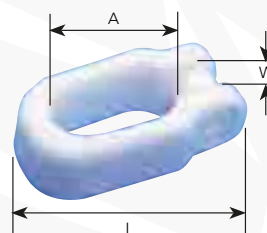
- Shackle supplied with screw.
- A025 comes with pip to prevent jamming.



Part No.	Width (mm)	Waist (mm)	Length (mm)	Pack Qty
HA025	25	40	8	100

### SCREW-ON SHACKLES - PLASTIC

- A030N can be used with B014 slide or many other slides.
- A030N is thin and light weight. A030W is thick and heavy weight.



A030W



A030N

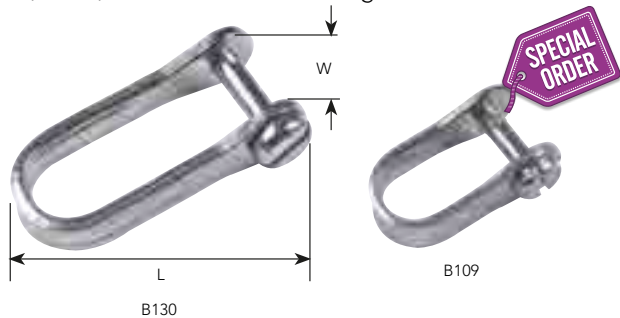
Part No.	Description	A (mm)	L (mm)	W (mm)	Pack Qty
HA030N	Narrow	18	25	4	100
HA030W	Wide	15	25	4	100

# Sailcloth Hardware

## Shackles, Tack & Jib Hanks

### SCREW SHACKLES - STAINLESS STEEL

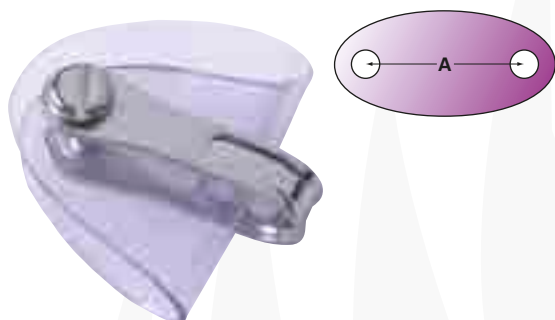
- B129, B130, B131 all have rolled edges to reduce chafe.



Part No.	Description	L (mm)	W (mm)	Pack Qty
B107	B014	15	10	100
B108	A016S - A018S & B015 - B016	19	12	100
B109	A016S - A018S & B015 - B016	22	14	100
B112	A016S - A018S & B015 - B016	25	14	100
B129	A016S - A018S & B014 - B016	16	10	100
B130	A016S - A018S & B014 - B016	20	10	100
B131	A016S - A018S & B014 - B016	27	10	100

### SHACKLE PROTECTORS

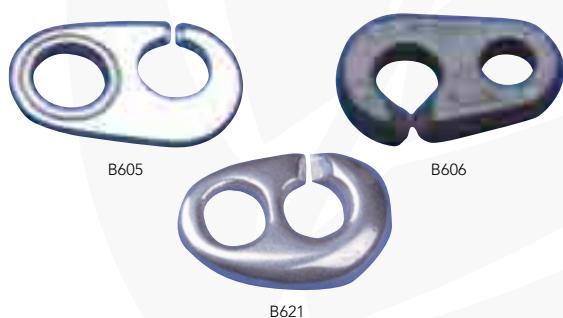
- Cut from clear vinyl.
- Available only in full packs of 100.



Part No.	To be used with	Dimension A (mm)	Pack Qty
HA515	B129	34	100
HA516	B130	37	100
HA517	B131	51	100
HA518	B110	59	100

### SISTER CLIPS & BRUMMEL HOOKS

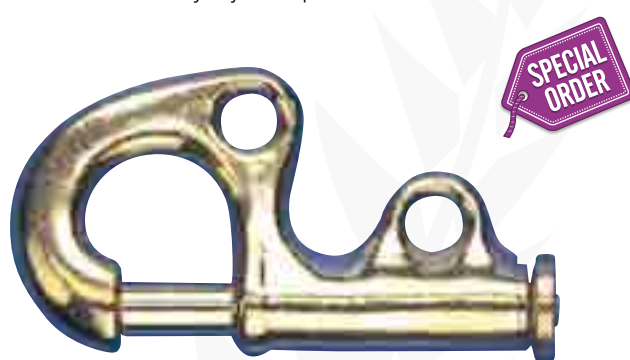
- Allows fast and positive sheet attachment to sail.
- Use on one-design or light air spinnakers.



Part No.	Description	Length (mm)	Pack Qty
HB605	Stainless Steel with Ferrule	38	10
HB606	Aluminum Alloy (Holt Allen 74)	35	10
HB621	Aluminum Alloy Brummel	40	10

### BRONZE SEW-ON JIB SNAPS

- These traditional style jib snaps are sewn onto the foresail.



Part No.	Size	Length (mm)	Wire Diameter (mm)	Pack Qty
HB410	0	40	6	50
HB411	1	50	8	50
HB412	2	63	11	25
HB413	3	70	12	25
HB414	4	95	15	10
HB415	5	113	20	5
HB416	6	145	25	5

### WICHARD STAINLESS STEEL TACK HOOKS

- Standard type.
- Working loads shown are according to manufacturer's data and is dependent on application.



Part No.	Wichard#	Length (mm)	Safe Working Load (kg/lb)	Pack Qty
HB518	2480	50	250-550	10
HB519	2481	75	600-1320	10
HB520	2482	100	1400-3080	10
HB528	2381	75	1100-2400	10
HB529	2382	100	2100-4600	10

# Sailcloth Hardware

## Jib Hanks

### TWIST-ON PLASTIC JIB HANKS

Plastic jib hanks are ideal for dinghies, dayboats and sportsboats up to 25 feet.

- Prices include screws.



A038



A039

Part No.	Size	Forestay Diameter (mm)	Length (mm)
HA038	Small	3.5	100
HA039	Large	5.0	100

### PISTON JIB HANKS

- Ideal for sportsboats and daysailers such as J24 and 1720.



Part No.	Length (mm)	Max Forestay (mm)	Length (mm)
RFPNP88A	50	6.4	10
RFPNP88B	72-	8.0	10

### SWEDISH FORGED BRASS PISTON HANKS

Swedish brass jib hanks are renowned world-wide for quality, reliability and ease of fitting.

- Forged from marine quality brass and fitted with a stainless steel spring.
- B516 has a jaw opening of 25mm and internal dimensions of 25mm x 29mm. It is designed for use over forestay systems for storm jibs, not for large genoas.



Part No.	Size	Length (mm)	Max. Forestay (mm)	Pack Qty
HB510	0	44	8	50
HB511	1	52	9	50
HB512	2	65	12	25
HB513	3	74	15	25
HB514	4	82	17	25
HB515	5	95	20	25
HB516	6	107		10

### WICHARD STAINLESS STEEL JIB HANKS

Special order products.



Part No.	Wichard#	Length (mm)	Max. Forestay (mm)	Pack Qty
HB506	2486	50	8	10
HB504	2483	55	9	10
HB507	2487	65	11	10
HB505	2489	80	12	10
HB508	2488	90	15	10
HB527	2490	110	23	10

### WICHARD BRONZE JIB HANKS



Part No.	Wichard#	Length (mm)	Max. Forestay (mm)	Pack Qty
HB701	72486	50	8	10
HB702	72483	55	9	10
HB703	72487	65	11	10

### JIB HANK PROTECTORS

- Cut from clear vinyl.
- Available only in full packs of 100.



Part No.	To be used with	Pack Qty
HA511	B506/B510/B511/B701	100
HA512	B504/B507/B512/B702/B703	100
HA513	B505/B513	100
HA514	B508/B514/B515	100





# Sailcloth Hardware

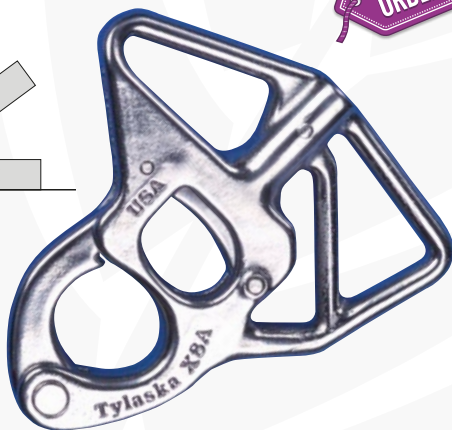
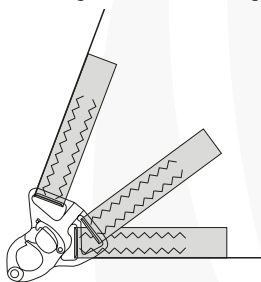
## Tack Shackles & Outhaul Blocks



© Rick Tomlinson

### TYLASKA TACK SHACKLES

- Specifically designed for application, using 25mm/1 inch webbing to attach to sail.
- Operation is one handed even under maximum 1800kg/4000lb working load.



### MAINSAIL OUTHAUL BLOCKS

A range of mainsail outhaul blocks is available to suit boat sizes up to 25 meters. They are an increasingly popular alternative to a fixed clew ring on roller furling mains. They are easily attached to the sail by the use of webbing straps.

- Manufactured in silver anodized, marine grade aluminum and fitted with high performance Kemetal sheaves with carbon fiber rollers.
- Plastic bushes protect webbing from abrasion on B092/3/7.



B092



B093



B097

Part No.	Sheave (mm)#	Rope Size (mm)	SWL (kg/lb)	Boat Size
HB092	50	10	750-1650	23-39ft
HB093	70	12	1750-3850	32-52ft
HB097	100	14	1750-3850	46-59ft

Part No.	Length (mm)	Safe Working Load (kg/lb)
HB710	73	1800-4000



# Sailcloth Hardware

## Dinghy Headboards & Clewboards

### DINGHY HEADBOARDS - PLASTIC

Plastic headboards meet all major dinghy classes rules and are made from rigid nylon.

- Suitable for a wide range of One Design classes.
- Manufactured from a rigid grade of nylon to give maximum leech support.
- Use D037 liners and D331 rivets. (5/32 inch).

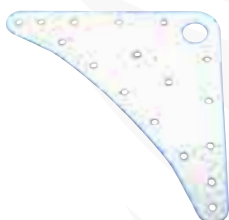


Part No.	Width (mm)	Length (mm)	Length (mm)
HA043	75	100	50
HA044	100	115	50
HA049	115	130	50

### DINGHY HEADBOARDS - PLASTIC

Plastic headboards meet all major dinghy classes rules and are made from rigid nylon.

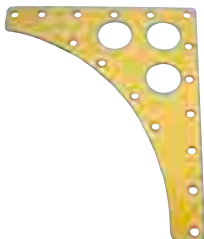
- Suitable for Finn/Fireball/Snipe etc.
- Manufactured from a rigid grade of nylon to give maximum leech support.
- Use D037 liners and D331 rivets. (5/32 inch).



Part No.	Width (mm)	Length (mm)	Length (mm)
HA048	145	145	50

### DINGHY HEADBOARDS - ALUMINUM

- Suitable for Finn.
- This headboard uses D335/D337 rivets. (3/16 inch).
- Gold anodized aluminum.
- HB806OK, designed specifically for the OK dinghy



Part No.	Width (mm)#	Length (mm)	Thickness (mm)	Pack Qty
HB805	135	185	1.6	10
HB806OK	135	140	1.6	10

### BOARDS FOR CATAMARAN SAILS

- Gold anodized aluminum.
- Use 1/8 inch rivets



Part No.	Length (mm)	Width (mm)	Thickness (mm)	Pack Qty
HB845	140	29	2	50

### ALUMINUM CLEW BOARDS

- Color: Black.
- Use 1/8 inch thick clew boards for boats over 30 feet.
- Use 5/8 inch liners and 3/16 inch rivets.



Part No.	Length (mm)	Width (mm)	Thickness (mm)	Pack Qty
HB931BK	191	38	2	50
HB936BK	241	38	2	50

### ALUMINUM CLEW BOARDS

- Color: B849BU - Blue.
- B849BU - Use 3/16 inch rivets.
- B847 - For Hobie and Soling class jib clews, use 1/8 inch rivets.



B849BU



B847

Part No.	Length (mm)	Width (mm)	Thickness (mm)	Pack Qty
HB849BU	203	38	2	50
HB847	203	38	2	50

### ALUMINUM CLEW BOARDS

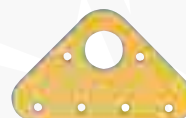
- Color: Gold.
- Use 3/16 inch rivets.
- For use in big boat applications.



Part No.	Length (mm)	Width (mm)	Thickness (mm)	Pack Qty
HB918	381	51	3	50

### ALUMINUM TACK PLATE

- For repairs on Hobie and other catamaran sails.
- Gold anodized aluminum.
- Use 1/8 inch rivets.



Part No.	Length (mm)	Width (mm)	Thickness (mm)	Pack Qty
HB846	64	64	2	50

# Sailcloth Hardware

## Yacht Headboards

### HOLLOW CENTER ALUMINUM HEADBOARDS

These new hollow center designs reduce weight. They are fixed to the sail with a minimal number of rivets and 3 liners. The result is a quicker to fit and higher strength head assembly. For even more strength webbing can be sewn through the liners.

Our new production system ensures a smooth and high quality finish.

- Lighter.
- Stronger.
- Quick to fix.
- Web through liners for extra strength.
- Smooth aluminum construction.
- Use D335/D337/D339 rivets with D039 liners.

### SINGLE SLOT HOLLOW CENTER



Part No.	Width (mm)	Length (mm)	Thickness (mm)	Colour	Pack Qty
HB921BK	106	127	1.8	Black	10
HB921SR	106	127	1.8	Silver	10

### DOUBLE SLOT HOLLOW CENTER

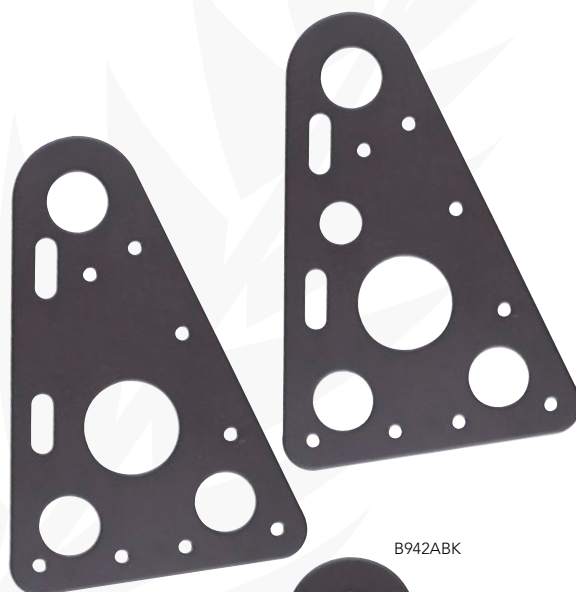


Part No.	Width (mm)	Length (mm)	Thickness (mm)	Colour	Pack Qty
HB926BK	127	168	2.8	Black	10
HB926SR	127	168	2.8	Silver	10
HB927BK	150	184	2.8	Black	10
HB927SR	150	184	2.8	Silver	10

### FULL BATTEN HEADBOARDS

Designed specifically for full batten sails including those fitted with Sailman systems.

- Web through liners for extra strength.
- Smooth aluminum construction.
- Use B942A with web on slides or with a long reach toggle assembly.
- B924B offers the choice to drill a hole yourself to provide exactly the correct stand off.
- Use B943B with Sailman heavy duty head cars.



B942ABK

B942BBK



B942CBK



Part No.	Width (mm)	Length (mm)	Thickness (mm)	Colour	Pack Qty
B942ABK	116	175	2.8	Black	10
B942BBK	116	175	2.8	Black	10
B942CBK	116	175	2.8	Black	10

### SPECIAL ORDER ITEM

Other colors of anodized headboards can be supplied against special order. All special order items are subject to minimum order quantities and additional lead times. Prices on application.



# Sailcloth Hardware

## Yacht Headboards

### YACHT HEADBOARDS - ALUMINUM

- Dual halyard position.
- Manufactured in marine grade aluminum.
- Use D039 liners and D335 - D339 rivets (3/16 inch).
- Webbing slot for slide attachment B810 & B811.
- Gold anodizing.



Part No.	Width (mm)#	Length (mm)	Thickness (mm)	Pack Qty
HB808	75	124	2	50
HB809	102	127	2	50

### YACHT HEADBOARDS - ALUMINUM

- Dual halyard position.
- Manufactured in marine grade aluminum.
- Use 7/8 inch liners and 3/16 inch rivets.
- Luff and leech webbing slots for reinforcing high load areas of mainsail.
- Gold anodizing.
- B810, B811 do not have a leech slot.



Part No.	Width (mm)#	Length (mm)	Thickness (mm)	Pack Qty
HB810	114	146	2	50
HB811	114	146	3	50
HB814	133	165	2	50
HB812	133	165	3	50
HB818	152	152	2	50
HB816	152	200	2	50
HB813	152	200	3	50

### YACHT HEADBOARDS - ALUMINUM

- Dual halyard position.
- Manufactured in marine grade aluminum.
- Use 7/8 inch liners and 3/16 inch rivets.
- Luff and leech webbing slots for reinforcing high load areas of mainsail.
- Gold anodizing.



Part No.	Width (mm)#	Length (mm)	Thickness (mm)	Pack Qty
HB815	184	229	3	20
HB817	216	267	3	20

### YACHT HEADBOARDS - ALUMINUM OPEN CENTER

- Use 7/8 inch liners and 3/16 inch rivets.
- Because of the open center design, these headboards reduce weight aloft where it is critical.
- Luff and leech webbing slots for reinforcing high load areas of mainsail.
- Gold anodizing.



Part No.	Width (mm)#	Length (mm)	Thickness (mm)	Pack Qty
HB825	184	229	3	20
HB827	216	267	3	20

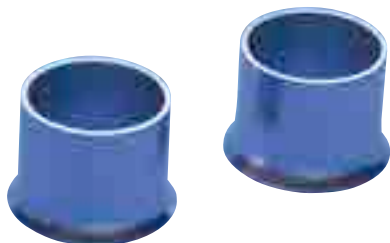


# Sailcloth Hardware

## Headboard Liners, Rivets & Leechline Blocks

### HEADBOARD LINERS

- Manufactured from brass with nickel plated finish.
- D039S manufactured from type 316 stainless steel.



Part No.	Diameter (mm)	Length (mm)	Closing Tool	Pack Qty
HD037N	16	16	C321	50
HD039N	22	19	C323	50
HD039S	22	19	C323	10

### CLOSING TOOLS FOR HEADBOARD LINER

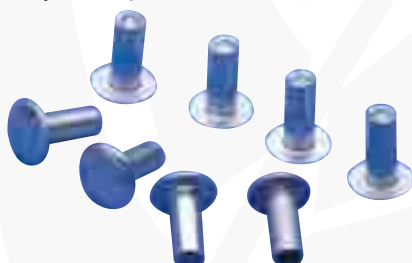
- Use just the two piece closing tool for setting with hydraulic press.
- Add the handle and set liners by hand with mallet.
- 3 pieces sold complete.



Part No.	Use with Headboard Liners
HC321	D037N
HC323	D039N, D039S

### SEMI-TUBULAR ALUMINUM RIVETS

- Available only in full pack of 1000.



Part No.	Diameter (mm)	Length (mm)	Closing Tool	Hole Punch	Pack Qty
HD332	3.2	9.5	C324	C101	1000
HD333	3.2	12.7	C324	C101	1000
HD331	3.9	9.5	C325	C102	1000
HD334	3.9	12.7	C325	C102	1000
HD335	4.8	9.5	C326	C103	1000
HD337	4.8	12.7	C326	C103	1000
HD339	4.8	15.9	C326	C103	1000

### CLOSING TOOLS FOR SEMI-TUBULAR RIVETS

- For best results hit closing tools with a rawhide mallet against a steel or aluminum plate. Do not use steel head hammer or mallet.



Part No.	Use for
HC324	D331 - D334 (1/8 inch to 5/32 inch)
HC326	D335 - D339 (3/16 inch)

### TUBULAR BRASS RIVETS

- D380 - D384 rivets are sold in full packs only. 100 pieces per pack.



Part No.	Use for	Diameter (mm)	Length (mm)	Mfg #
D380	—	3.0	11	A546
D382	B808 - B810 B814, B816, B818	5.0	11	613
D384	B401B, B401S	5.6	8	7-8

### CLOSING TOOLS FOR TUBULAR RIVETS

- These dies have a 3/8 inch diameter base and are used in a bench press.



C380M



C380F



Part No.	Type	Use for
C380M	Male Die	D380
C380F	Female Die	D380
C382M	Male Die	D382
C382F	Female Die	D382

### RONSTAN® SERIES 20 & SERIES 30 LEECHLINE BLOCKS

- Low friction.
- High load capacity.
- Light weight.
- Versatile head fittings.



Part No.	Description	Working Load (kg/lb)	Weight (gm/oz)	Sheave (mm)	Max Line Size (mm)
RF20151A	Rivet on Cheek	200-440	17-0.6	20	6
RF30151A	Rivet on Cheek	250-550	32-1.1	30	8



# Sailcloth Hardware

## Leechline Cleats

The Clamcleat principle is simple. A ridged 'V' groove holds rope firmly, yet is devoid of any moving parts to break or seize. It allows the immediate release of the rope by a short downward pull. Always tension the rope before it enters the cleat to avoid damage to the cleat.

### CLAMCLEAT® ROPE CLEATS - PORT SIDE

- B057 and B057A are manufactured from marine grade aluminum alloy, others from nylon.
- C331 rivet closing tool available against specified order.
- Typically mount these cleats on port side of sail.



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HA056	CL221	Cleat/Backplate/Rivets	Up to 2	100



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HA057	CL212	Cleat/Backplate/Rivets	2 - 5	100
HA057A	CL212	Cleat Only	2 - 5	100
HA057BP		Backplate for A057/A067/B301/B057/B067		100
HA058	CL212A	Cover for A057/A057A		100
HA056	CL221	Cleat/Backplate/Rivets	Up to 2	100



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HB057	CL258	Cleat/Backplate/Rivets	3 - 6	10
HB057A	CL258	Cleat Only	3 - 6	10
HA057BP		Backplate for A057/A067/B301/B057/B067		100
HA058	CL212A	Cover for A057/A057A		100



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HB301	CL241	Cleat/Backplate/Rivets	3 - 6	10
HB301A	CL241	Cleat Only	3 - 6	10
HA057BP		Backplate for A057/A067/B301/B057/B067		100



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HA063A	CL233	Cleat Only	2 - 5	100
HA063BP		Backplate for A063A		100

### CLAMCLEAT® ROPE CLEATS - STARBOARD SIDE

- B067 and B067A are manufactured from marine grade aluminum alloy, others from nylon.
- C331 rivet closing tool available against special order.



Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HA067	CL214	Cleat/Backplate/Rivets	2 - 5	100
HA067A	CL214	Cleat Only	2 - 5	100
HA057BP		Backplate for A057/A067/B301/B057/B067		100

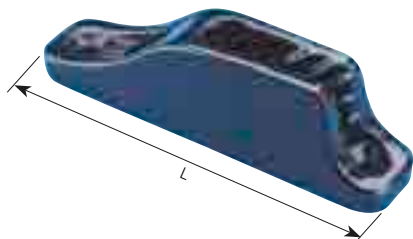


Part No.	Clamcleat	Assembly	Leechline Size (mm)	Pack Qty
HB067	CL259	Cleat/Backplate/Rivets	3 - 6	10
HB067A	CL259	Cleat Only	3 - 6	10
HA057BP		Backplate for A057/A067/B301/B057/B067		100

## Headboard Liners, Rivets & Leechline Blocks

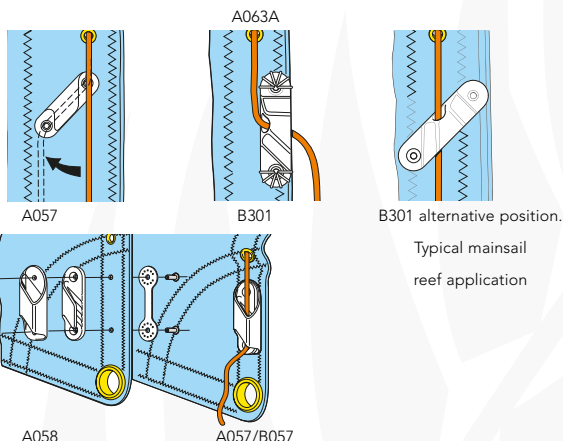
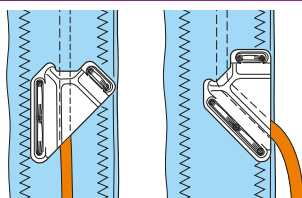
### VERTICAL CLAMCLEAT®

- A064 vertical cleat has an integral fairlead channel.
- Attach with rivets, bolt and nuts or sew on.
- Used on staysail to adjust floating tacks.
- Allows quick and easy adjustment of control lines.
- Manufactured from high strength black plastic.



Part No.	Length (mm)	Type Reference	Use with Leechline	Pack Qty
HA064	82	CL203	Up to 5/16 inch	10

### CLAMCLEAT APPLICATIONS



### SPERRY CLEAT

- The Sperry cleat is a simple one-handed tensioning device.
- Made from high grade, impact resistant industrial black nylon.
- Allows for easy re-adjustment with strong holding power.
- Use on tents, fenders, tie downs.



Part No.	Length (mm)	Type Reference	Use with Leechline	Pack Qty
HA083BK	78	CL234	1/4 - 1/2 inch	10

### GRANSEGEL CLEATS

Alternative to the popular Clamcleat leechline cleats, the Gransegel design has the unique feature of fitting compactly round the sail leech.

- Compact and lightweight fitting.
  - Cut an oval hole in the fold. No reinforcements needed.
  - Mount the cleat over the hole (make sure not to mount it too "high").
- Secure with a few laps of handstitching or rivets.



Part No.	Length (mm)	Leechline (mm)	Pack Qty
HA054	29	1.5 - 2.0	100
HA055	44	1.5 - 4.0	100
HA059	58	2.0 - 4.0	50

### REGULAR CLEATS

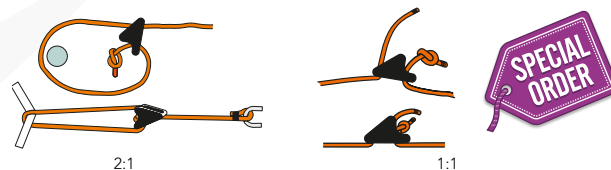
- Injection molded in nylon.
- Rivets and backplate included.



Part No.	Description	Leechline (mm)	Pack Qty
A062	For Riveting/Sewing	1.5 - 3.0	100

### LINE-LOK CLAMCLEAT®

- Use on biminis, sun awnings and camping guy ropes.
- Manufactured from high impact UV resistant nylon.
- Grips the line to resist being shaken loose.
- Easy to tension, easy to release.
- Weight: 220g/0.08 ounce.



Part No.	Length (mm)	Type Reference	Use with line (mm)	Pack Qty
A080BK	32	CL260	2 - 5	100

# Sailcloth Hardware

## Sailcloth Tape

### POLYESTER SAILCLOTH TAPE

- Other weights/widths can be supplied. Please inquire.
- All rolls are 70/110 yard nominal.
- Available only on full rolls.
- Can be supplied folded against special order.



Part No.	Weight (mm)	Width (mm)
F35/075	3.9 US oz Polyester	19.0
F35/100	3.9 US oz Polyester	25.0
F35/150	3.9 US oz Polyester	38.0
F35/200	3.9 US oz Polyester	50.0
F35/250	3.9 US oz Polyester	63.5
F35/300	3.9 US oz Polyester	76.0
F35/400	3.9 US oz Polyester	102.0
F50/100	5.0 US oz Polyester	25.0
F50/150	5.0 US oz Polyester	38.0
F50/200	5.0 US oz Polyester	50.0
F50/250	5.0 US oz Polyester	63.5
F50/300	5.0 US oz Polyester	76.0
F50/350	5.0 US oz Polyester	89.0
F50/400	5.0 US oz Polyester	102.0
F50/500	5.0 US oz Polyester	127.0
F50/600	5.0 US oz Polyester	152.0
F60/100	6.0 US oz Polyester	25.0
F60/150	6.0 US oz Polyester	38.0
F60/200	6.0 US oz Polyester	50.0
F60/250	6.0 US oz Polyester	63.5
F60/300	6.0 US oz Polyester	76.0
F60/350	6.0 US oz Polyester	89.0
F60/400	6.0 US oz Polyester	102.0
F60/500	6.0 US oz Polyester	127.0
F60/600	6.0 US oz Polyester	152.0
F70/250	7.0 US oz Polyester	63.5
F70/300	7.0 US oz Polyester	76.0
F70/350	7.0 US oz Polyester	89.0
F70/400	7.0 US oz Polyester	102.0
F70/500	7.0 US oz Polyester	127.0
F70/600	7.0 US oz Polyester	152.0
F80/300	8.0 US oz Polyester	76.0
F80/400	8.0 US oz Polyester	102.0
F80/500	8.0 US oz Polyester	127.0
F90/300	9.0 US oz Polyester	76.0
F90/400	9.0 US oz Polyester	102.0
F90/500	9.0 US oz Polyester	127.0
F90/600	9.0 US oz Polyester	152.0

**NOTE:** Please refer to our 2011 Sailmakers' Price List

### TEFLON® TAPE

- Teflon® yarns are woven into fabric to reduce friction when used in the manufacture of luff tapes.
- All rolls are approximately 137m/150 yards.
- Available only on full rolls.



Part No.	Weight (gsm/smoz)	Width (mm)
HF80/300TF	343-8	76
HF80/400TF	343-8	100
HF80/500TF	343-8	125

### 5.3 UV SAILCLOTH TAPE

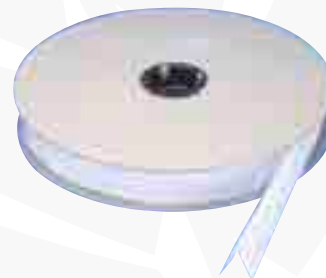
- White UV coated both sides for maximum protection.
- For leech and foot tabling.



Part No.	Weight (smoz)	Width (mm)
F53/300UV	5.3 US oz UV Polyester	76

### FOLDED TAPE

- Pre-folded slit tape can be prepared from most polyester or nylon slit tapes.
- The folded tapes are placed on special reels to facilitate easy storage and handling.
- Price quoted covers folding only.
- Return each reel for a \$ .50 credit.



Part No.	Description
FOLD	Range of folded tapes - 3.9 ounces up to 8.0 ounces. Flat tape 1 1/2" to 6" width folds up to 1/4" to 3"



# Sailcloth Hardware

## Spinnaker Edging Tape

### NYLON COLORED SAILCLOTH TAPE

- These tapes are manufactured from 64gsm/1.5smoz or 170gsm/4smoz nylon.
- All rolls are 70/100 yards nominal.
- Available only on full rolls.
- Can be supplied folded against special order.



Part No.	Weight (smoz)	Colour	Width (mm)
F15/100NWT	1.5 US oz Nylon	White	25
F15/100NRD	1.5 US oz Nylon	Red	25
F15/100NGR	1.5 US oz Nylon	Green	25
F15/100NBU	1.5 US oz Nylon	Blue	25
F15/100NBK	1.5 US oz Nylon	Black	25
F15/200NWT	1.5 US oz Nylon	White	50
F15/200NRD	1.5 US oz Nylon	Red	50
F15/200NGR	1.5 US oz Nylon	Green	50
F15/200NBU	1.5 US oz Nylon	Blue	50
F15/200NBK	1.5 US oz Nylon	Black	50
T025WT	4.0 US smoz Nylon	White	25
T025RD	4.0 US smoz Nylon	Red	25
T025GR	4.0 US smoz Nylon	Green	25
T050WT	4.0 US smoz Nylon	White	50
T050RD	4.0 US smoz Nylon	Red	50
T050GR	4.0 US smoz Nylon	Green	50
T075WT	4.0 US smoz Nylon	White	76
T075RD	4.0 US smoz Nylon	Red	76
T075GR	4.0 US smoz Nylon	Green	76

**NOTE:** Please refer to our 2011 Sailmakers' Price List

### POLYESTER COLORED SAILCLOTH TAPE

- These tapes are manufactured from 167gsm/3.9smoz polyester sailcloth.
- All rolls are 70/100 yards nominal.
- Available only on full rolls.
- Can be supplied folded against special order.



Part No.	Weight (smoz)	Colour	Width (mm)
F35/100RD	3.9 US smoz Polyester	Red	25
F35/100GR	3.9 US smoz Polyester	Green	25
F35/100BU	3.9 US smoz Polyester	Blue	25
F35/100BK	3.9 US smoz Polyester	Black	25
F35/150RD	3.9 US smoz Polyester	Red	38
F35/150GR	3.9 US smoz Polyester	Green	38
F35/150BU	3.9 US smoz Polyester	Blue	38
F35/150BK	3.9 US smoz Polyester	Black	38
F35/200RD	3.9 US smoz Polyester	Red	50
F35/200GR	3.9 US smoz Polyester	Green	50
F35/200BU	3.9 US smoz Polyester	Blue	50
F35/200YE	3.9 US smoz Polyester	Yellow	50
F35/200BK	3.9 US smoz Polyester	Black	50
F35/300RD	3.9 US smoz Polyester	Red	76
F35/300GR	3.9 US smoz Polyester	Green	76
F35/300BU	3.9 US smoz Polyester	Blue	76
F35/300BK	3.9 US smoz Polyester	Black	76

### CUSTOM SLITTING

- Save time.
- Almost any fabric can be slit.
- Your choice of widths.
- Cold slit.
- Hot slit to seal edges.
- Slitting done in Auckland, NZ.
- Ask your QCD Sales representative.



**NOTE:** Please refer to our 2011 Sailmakers' Price List

# Sailcloth Hardware

## Rings & Snap Hooks

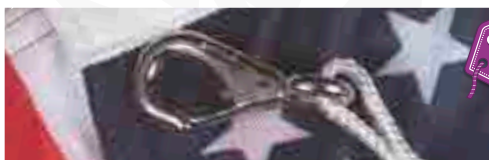
### STAINLESS STEEL D RINGS - WELDED



Part No.	Dimensions (mm)	Weight (gm/oz)	Median Holding Strength (kg/lbs)
A161WT	40 x 35 x 10 mm	12.5-0.44	45-100

### SNAP HOOKS

- Brass snap hooks are an all purpose hook used in many applications where loads are relatively low.
- Stainless steel offers the same efficient and easy to use shape, but has much greater safe working loads.



**SPECIAL ORDER**

Part No.	Material	Type	Length (mm)	Inside eye dia (mm)	Pack Qty
B610	Brass	0	53	10	50
B611	Brass	1	72	15	50
B611N	Brass/Nickel Plate	1	72	15	50
B612	Brass	2	81	20	5
B610S	Stainless Steel	0	53	10	50
B611S	Stainless Steel	1	72	15	50
B612S	Stainless Steel	2	81	20	50

### SNAP HOOK - RECTANGLE EYE

- Stainless steel snap hooks are all purpose hooks used in many applications where loads are relatively low.
- Ideal for use with 25.4mm/1 inch webbing.



Part No.	Material	Length (mm)	Inside eye dia (mm)	Pack Qty
HB617S	Stainless Steel	50	25.4	50

### SWIVEL SNAP HOOKS

- Bronze snap hooks are an all purpose hook used in many applications where loads are relatively low.
- Swivel prevents halyard from twisting.



**SPECIAL ORDER**

Part No.	Material	Type	Length (mm)	Inside eye dia (mm)	Pack Qty
B611SW	Bronze	1	81	15	50

### SNAP HOOKS - SWIVEL EYE

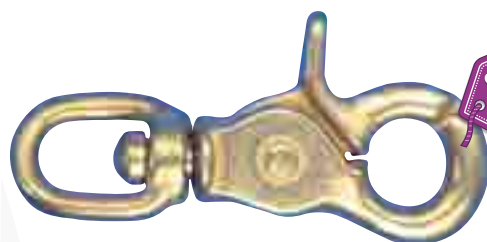
- Snap hooks are an all purpose hook used in many applications where loads are relatively low.



**SPECIAL ORDER**

Part No.	Material	Length (mm)	Inside eye dia (mm)	Pack Qty
B615	Bronze	75	10	50

### SNAP HOOK - SWIVEL TRIGGER

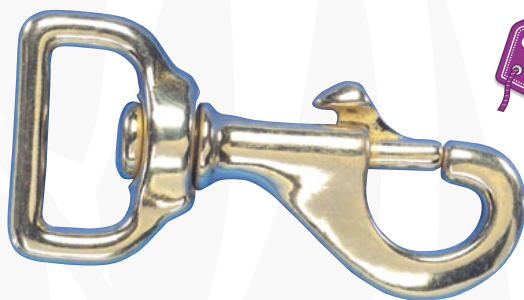


**SPECIAL ORDER**

Part No.	Material	Length (mm)	Inside eye dia (mm)	Pack Qty
B632	Bronze	64	10	50

### SNAP HOOKS - SWIVEL EYE FOR WEBBING

- Rectangular webbing eye.
- Snap hooks are an all purpose hook used in many applications where loads are relatively low.



**SPECIAL ORDER**

Part No.	Material	Length (mm)	Inside eye dia (mm)	Pack Qty
B637	Bronze	75	25	50

### CAUTION

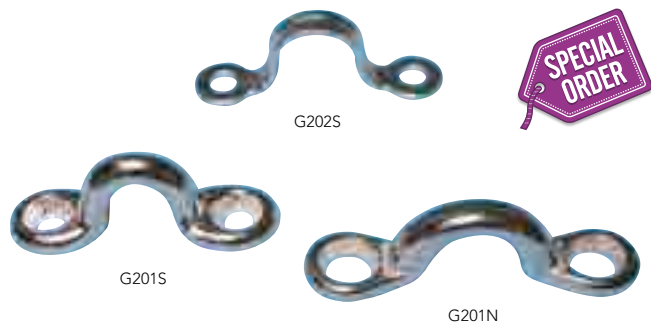
These snap hooks should NOT be used for high load applications such as emergency safety equipment.



# Sailcloth Hardware

## Snap Hooks & Buckles

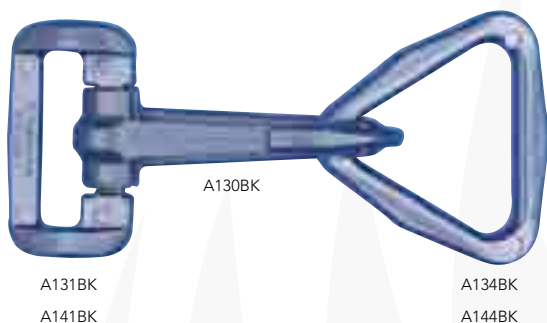
### EYE STRAPS



Part No.	Description	Pack Qty
G202S	Stamped Stainless Steel	100
G201S	Cast Polished Stainless Steel	100
G201N	Cast Nickel Plated Brass	100

### SNAP HOOKS - ACETAL PLASTIC

- Light weight and durable component system for detachable straps.
- Refer to ITW Fastex Price List



Part No.	For webbing (mm)	Description	Colour	Pack Qty
A130BK		Hook	Black	50
A131BK	25	1 Inch Retainer	Black	50
A134BK	25	1 Inch Tri-Ring	Black	50
A141BK	38	1 1/2 Inch Retainer	Black	50
A144BK	38	1 1/2 Inch Tri-Ring	Black	50

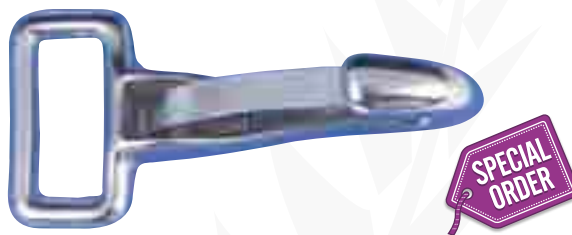
### ADJUSTABLE TIE-DOWN HOOK

- Heavy duty tie-down hook with adjustable ladderlock for 1 inch webbing.
- Excellent for canoes, automobile rooftop carriers, cargo straps.
- Overall hook length: 4 1/4 inches.



Part No.	For webbing (mm)	Description	Colour	Pack Qty
A120BK	25	Nylon	Black	25

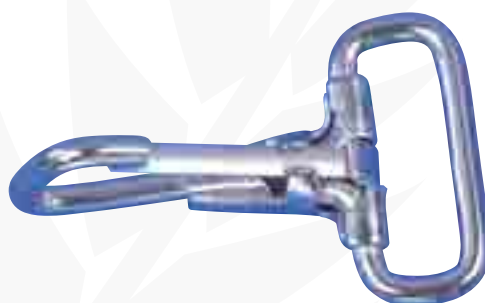
### SNAP HOOK - RIGID SPRING



Part No.	Material	Length (mm)	Inside eye (mm)	Pack Qty
B633	Malleable Iron	83	25	50

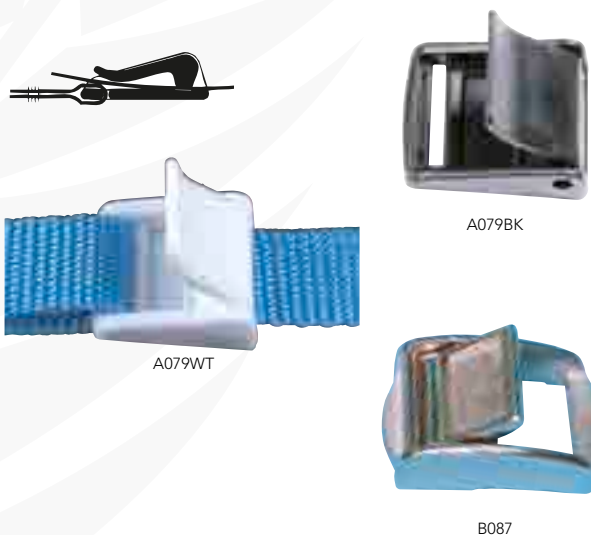
### SNAP HOOK - WEBBING

- G200N/S has rectangular eye for webbing.



Part No.	Material	Length (mm)	Inside eye (mm)	Pack Qty
G200N	Nickel Plated Brass	50	25	100
G200S	Stainless Steel	50	25	100

### CAM BUCKLES



Part No.	For webbing (mm)	Material	Pack Qty
A078WT	19	White Nylon	100
A079WT	25	White Nylon	100
B087	25	Stainless Steel	50

# Sailcloth Hardware

## Snap Hooks & Buckles

### LOOP LOC

- Ideal for holding straps or webbing where no adjustment is needed.
- Refer to ITW Price List



Part No.	For webbing (mm)	Material	Colour	Pack Qty
A124BK	25	Acetal Plastic	Black	50

### ADJUSTER BUCKLES



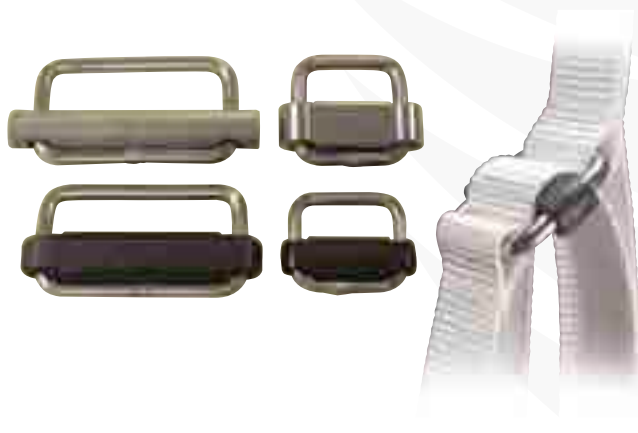
G210N



G210S

Part No.	For webbing (mm)	Material	Pack Qty
G210N	25	Nickel Plated Brass	100
G210S	25	Stainless Steel	100

### SLIDING BAR BUCKLES



Part No.	For webbing (mm)	Material	Pack Qty
G221	25	Stainless Steel/Nylon	10
G222	50	Stainless Steel/Nylon	10
G221S	25	Stainless Steel	10
G222S	50	Stainless Steel	10

### LADDERLOCK BUCKLES

- 956-1109 is over three times the strength of standard ladderlock.
- Refer to ITW Price List



386-0759



956-1109



Part No.	For webbing (mm)	Material	Pack Qty
956-1159	19	Black Nylon	10
386-0759	25	Black Nylon	10
956-1109	25	Heavy Duty Nylon	10

### TRI GLIDE - PLASTIC

- Refer to ITW Price List



Part No.	For webbing (mm)	Material	Pack Qty
386-0055	19	Black Plastic	100
386-0056	25	Black Plastic	50
386-0150	38	Black Plastic	50

### SIDE RELEASE BUCKLE

- A152BK is double adjustable, locking from both sides to eliminate the need to sew around the bar.
- Refer to ITW Price List



A152BK



A089BK

Part No.	For webbing (mm)	Material	Pack Qty
HA088BK	19	Black Nylon	50
HA089BK	25	Black Nylon	50
HA089WT	25	White Nylon	50
HA099BK	50	Black Nylon	25
HA152BK	25	Black Nylon	50



# Sailcloth Hardware

## Patch Cloth & Tapes

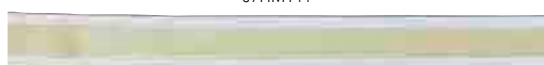
### SRT TAPES

SRT sail reinforcement tapes are designed for membrane load bearing fiber applications. SRT Tapes are multifilament, un-twisted, fiber S-Glass, HMT or Carbon bonded to film with pressure sensitive adhesive. This PSA glue is also applied to the filaments and film to assure a "no peel" bond to film based sails.

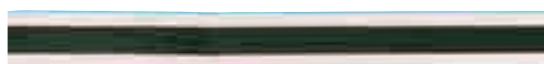
- Ideal for radial reinforcement as well as complete load path.
- All rolls are approximately 229 metres/250 yards in length.
- Sold in full rolls only.



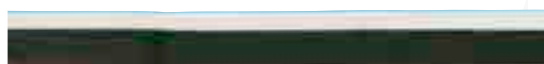
J7HMT11



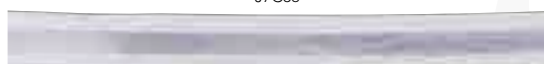
J7HMT17



J7C24



J7C36



'S' Glass

Part No.	Tape width (mm)	Fiber
J7HMT11	19	Twaron 11K
J7HMT17	19	Twaron 17K
J7C24	19	Carbon 24K
J7C36	25	Carbon 36K
J7S5	19	'S' Glass Strand

### WHITE INSIGNIA CLOTH FOR LAMINATE SAILS

- Single side adhesive material slit to widths for seam reinforcement, quick sail repairs, and to cover seams for protection against chafe.
- Excellent for quick sail repairs.
- Available only on full rolls.
- Refer to our 2011 Sailmakers' Price List for width & colours.



Part No.	Material	Tape width (mm)	Roll length (m)	Colour
J071	US Dacron	25	46	White
J072	US Dacron	50	46	White
J073	US Dacron	75	46	White
J074	US Dacron	100	46	White
J076	US Dacron	150	46	White
J051	Polyester	25	46	White
J052	Polyester	50	46	White
J053	Polyester	75	46	White
J054	Polyester	100	46	White

### ARAMID PATCH & TAPES WITH ADHESIVE

- Twaron 380D taffeta with self-adhesive backing.
- Ideal for lightweight corner patches and local reinforcement on laminate sails.
- Available in full width cut lengths or as rolls of tape.



Aramid Patch

Part No.	Width (mm)	Weight (gsm/smoz)	Film thickness (mm)
F7010Z00M	1370	278-6.5	0.5



Aramid Tape

Part No.	Tape width (mm)	Roll length (m)
J741	25	27 - 55
J7415	38	27 - 55
J742	50	27 - 55
J743	75	27 - 55
J744	102	27 - 55

### Polyester & Nylon Sailcloth with Adhesive

- Bainbridge quality polyester sailcloth in three weights with our unique adhesive backing and release paper.
- Make a quick easy patch that sticks exactly to the location it is placed.
- Some applications may require sewing for additional strength.

J522WT - 3/4 oz ripstop nylon with pressure sensitive adhesive for quick repairs or patches.



Part No.	Material	Tape width (mm)	Roll length (m)	Colour
J639W	3.9 oz. Polyester	1320	32	White
J665W	6.5 oz. Polyester	1320	32	White
J686W	8.0 oz. Polyester	1320	32	White
J522WT	0.75 oz. Nylon	1320	46	White



# Sailcloth Hardware

## Insignia Cloth

### COLOR AVAILABILITY



Red  
(Polyester Only)



Fluro Orange  
(Polyester Only)



Green



Blue



Black



Gray  
(Polyester Only)



Yellow  
(Polyester Only)



Hot Pink  
(Polyester Only)



Fluro Yellow  
(Polyester Only)

### POLYESTER INSIGNIA

- Standard style.
- Has grid on release liner.
- Cut lengths available.



Part No.	Roll width (mm)	Roll length (m)	Colour
HJ510RD	1370	45.7	Red
HJ510OR	1370	45.7	Fluro Orange
HJ510GR	1370	45.7	Green
HJ510BU	1370	45.7	Blue
HJ510BK	1370	45.7	Black
HJ510GY	1370	45.7	Gray
HJ510WT	1370	45.7	White
HJ510FP	1370	45.7	Hot Pink
HJ510FY	1370	45.7	Fluro Yellow
HJ510Y	1370	45.7	Yellow

Note: Information correct at time of print. Other colors available against special order. Color representation from 4-color process and for reference purposes only. Please inquire for color sample of actual fabric.

### UV COATED POLYESTER INSIGNIA

- Manufactured in USA.
- Special white UV resistant coating applied for the best protection.
- Acrylic adhesive.
- Cut lengths available.
- Works for digital inkjet printing.

Part No.	Roll width (mm)	Roll length (m)	Colour
HJ530WTUV	1370	45.7	White

### CAMBER TAPE/DRAFT STRIPE

- Insignia cloth with an aggressive adhesive and release paper.
- These tapes are placed approximately parallel to the horizon on racing mainsails and genoas to make a contrasting line to help determine the components of the sail shape.
- Available only on full rolls.
- Refer to QCD 2011 Sailmakers' Price List for width & colours.



Part No.	Material	Tape width (mm)	Roll length (m)	Colour
J001BK	US Dacron	25	46	Black
J001BU	US Dacron	25	46	Blue
J005BK	Polyester	25	46	Black
J005BU	Polyester	25	46	Blue
J005GR	Polyester	25	46	Green
J005RD	Polyester	25	46	Red
J007BK	Polyester	50	46	Black
J007BU	Polyester	50	46	Blue
J007RD	Polyester	50	46	Red
J009BK	Polyester	75	46	Black
J009BU	Polyester	75	46	Blue
J009RD	Polyester	75	46	Red

**NOTE:** Please refer to our 2011 Sailmakers' Price List

# Sailcloth Hardware

## Sail Repair

### SAIL REPAIR KIT

- By William Smith manufacturer of palms and needles.

Part No.	Description
REPHARB	Harbour sail repair kit
REPCOST	Coastal sail repair kit

### DACRON SAIL REPAIR TAPE

- Manufactured from Dacron Insignia cloth with very aggressive adhesive.
- Ideal for making quick repairs on nylon or polyester fabrics.



Part No.	Roll length (mm)	Width (mm)
J610WT	4.5	50
J613WT	4.5	75
J073	45	75

### ADHESIVE REMOVER

A specially blended solvent that provides easy cleanup of most types of adhesive and quickly removes waxes, road tars, grease, oil and similar materials. Will not harm vinyl or fabrics when properly used. Always try on a small area of similar material before use on a sail or cover

- Easy to apply.
- Non-Toxic.
- Non-Allergenic.
- Much safer than acetone.



Part No.	Liquid measure (ml)
HM040	909

### SAIL RIPAIR® TAPE - NYLON

- Available only on full rolls.



Part No.	Roll width (mm)	Roll length (m)	Colour
HJ601RD	50	7.6	Red
HJ601GD	50	7.6	Gold
HJ601GR	50	7.6	Green
HJ601BU	50	7.6	Blue
HJ601LB	50	7.6	Light Blue
HJ601PU	50	7.6	Purple
HJ601BK	50	7.6	Black
HJ601WT	50	7.6	White
HJ601HP	50	7.6	Hot Pink
HJ601SR	50	7.6	Silver

### SAIL RIPAIR® TAPE BOX

- For resale of J601.
- Clear cellophane window for view of tape color within.
- Slotted hanging hole for display on pegboard or slatwall display racks.



Part No.	Description
J602	Tape Box



# Sailcloth Hardware

## Seaming Tape

### SEAMING TAPES

Bainbridge International stocks many styles of double sided adhesive tapes for holding components such as panels and patches in place before sewing. The tapes offered vary in type and degree of adhesion as well as carrier and component construction.

#### ACRYLIC ADHESIVES:

Generally the softer the adhesive the higher the initial tack but the weaker the long term bond. Compared with rubber based products acrylic adhesives feature lower initial tack but better long term bond. They also do not turn yellow in UV light making them ideal for general seaming applications.



#### CARRIERS:

Tapes are offered using either Mylar, tissue or fabric carriers. Tissue products are easier to apply as they tear easily. Mylar carriers are more stable and so do not stretch and shrink back like tissue products. Fabric carriers are recommended for lightweight film/film laminate sails where the strength of the carrier helps to prevent stitching pulling through the sailcloth.

### RUBBER OR ACRYLIC ADHESIVE? WHICH WILL BEST MEET THE DEMANDS OF YOUR APPLICATION?

#### RUBBER ADHESIVES

- High initial adhesion.
- Some adhesion buildup.
- Good shear strength.
- Moderate temperature resistance.
- Fair UV resistance.
- Moderate age life.

#### ACRYLIC ADHESIVES

- Fair initial adhesion.
- Gradual adhesion buildup.
- High shear strength.
- High temperature resistance.
- Excellent UV resistance.
- Excellent age life.
- Excellent solvent resistance.

### SURFACE CONTACT:

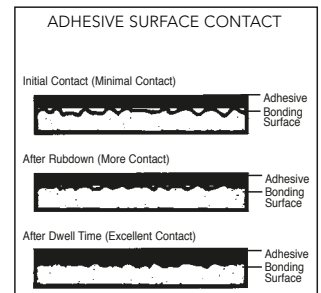
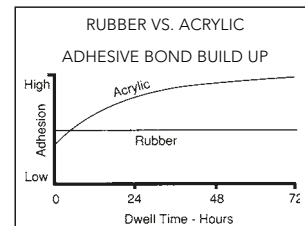
This is fundamental to adhesive performance. To maximize contact on a substrate:

- It must be unified, dry and free of contaminants.
- Firm pressure must be applied to increase the cold flow and contact of the adhesive with the substrate.
- Time and temperature will increase the surface contact and adhesion values.

Initial contact = minimum surface adhesion

Rubdown = more surface adhesion

After dwell time = excellent surface adhesion



#### CAUTION

Always test the adhesive bond strength for your material and applications.



### HIGH ADHESION DOUBLE SIDED SEAMING TAPE - ACRYLIC BASED ADHESIVE - POLYESTER CARRIER

- Outstanding adhesion to all types of sailcloth making this tape ideal for seaming applications.
- Excellent initial tack.
- High long term adhesion.
- Hand tearable polyester carrier.
- UV Inhibitors.
- Non yellowing.
- **Uses:** Sails and Sunbrella.



Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
HJ441	6	55	96
HJ442	9	55	64
HJ443	12	55	48
HJ444	15	55	36
HJ445	19	55	32
HJ446	25	55	24
HJ448	50	55	24



# Sailcloth Hardware

## Seaming Tape

### 3M VHB Attachment Tape

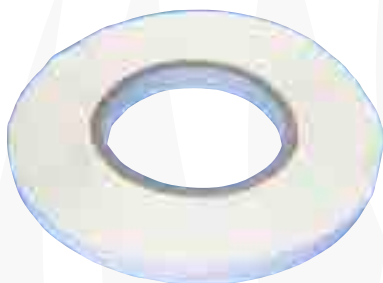
- High performance acrylic adhesive.
- Medium density white acrylic foam tape.
- Adhesive on both sides with red release liner.
- **Use:** Attaching automotive and marine trim, awning track, flex a rail.



Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
J112V	12.7	18	12
J117V	22.5	18	12

### SUPER TACK SEAMING TAPE - RUBBER BASED ADHESIVE

- Ultra-high tack.
- **Carrier:** fabric scrim.



Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
HJ472	9	32.9	128

#### CAUTION

J492 is not to be used on vinyls or vinyl window materials or when subjected to warm temperatures. Adhesive can bleed.



### TESA-2 TAPE - YELLOW PAPER LINER

- Uses: Excellent for sticking laminated sailcloth seams together.
- **Carrier:** polyester film.



Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
HJ427	12	55	72
HJ428	20	55	48
HJ429	25	55	36

### TESA TAPE - ORANGE PLASTIC LINER

- A very aggressive adhesive with an orange plastic release liner.
- Excellent for sticking luff tape to the sail before sewing.
- **Uses:** Any applications requiring very good initial tack and long term holding power.
- Good for Stamoid.
- **Carrier:** polyester film.



Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
HJ492	10	55	96
HJ493	12	55	72

# Sailcloth Hardware

## Seam Bonding Tape

### PECO II

PECO II is the latest development from the makers of PECO tape, the industry leading spinnaker bonding tape. Lab and 'on-the-water' tests have proven that PECO II offers higher shear and peel strength compared to the original product.

### APPLICATION OF PECO TAPE

It is important that the following instructions are adhered to:

- Areas to be bonded must be clean and free from grease.
- Do not touch the areas to be bonded.
- Apply pressure with a roller to all seams after bonding.
- Allow the finished spinnaker to dwell for 24 hours before use.
- Recommended tape widths are 9mm up to 55m<sup>2</sup>, 12mm up to 100m<sup>2</sup>, 15mm or 19mm above 100m<sup>2</sup>.
- High load areas of the sail may need some stitching such as clew and head patches.



Part No.	Width (mm)	Roll length (m)
J482	9	55
J483	12	55
J484	15	55
J485	19	55

### CAUTION

Warning: Quality of bond is dependent on atmospheric conditions, dwell time and correct application. Always test adhesive bond strength for your material and application.



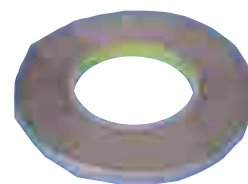
### 3M SUPER SEAM TAPES

3M Super Seam Tape is suitable for bonding spinnakers and low load radial seams on head sails made from film laminate sailcloth. Used on higher load horizontal seams, the number of rows of stitching can safely be reduced.

Sails for dinghies, sports boats and small IMS yachts up to 36ft have been assembled using 3M super seam tape.

### Advantages of bonding sails with 3M Super Seam Tape.

- Super Seam Tape is better for the sailcloth, particularly on film/film laminates and nylons where stitching can tear through the cloth.
- Super Seam Taped seams often stretch less than conventional sewn seams.
- Super Seam Tape can reduce costs as the number of rows of stitching on horizontal seams of large sails can be reduced.
- Seams bonded with Super Seam Tape are light and smooth.

**3M**

Part No.	Width (mm)	Roll length (m)	Pack Qty Rolls
J183	10	55	96
J180	12	55	72
J184	15	55	64
J181	19	55	48
J182	25	55	36

### APPLICATION OF 3M SUPER SEAM TAPE

It is important that the following instructions are adhered to:

- Select width tape based on seam width and shear strength requirements.
- Use only on film surfaces of laminate sail cloths.
- Areas to be bonded must be clean and free from grease.
- Do not touch the areas to be bonded.
- Rub down or apply pressure with a roller to all seams after bonding.
- Allow the finished sail to lie flat for 24 hours before use.
- Do not use on horizontal or highly loaded seams of fore and aft sails without additional stitching.
- Do not use with silicone finished fabrics.



### SEAM ROLLER

- Use for applying pressure to seams bonded with PECO or 3M Super Seam Tape.



Part No.	Description
C523	Seam Roll