

# **FIBERFOAM**

Composite *Sailbattens*



[www.fiberfoam.net](http://www.fiberfoam.net)





## Sail Battens are important

They hold design shape in the sail and they affect how a sail works. They can change a boats upwind height and the rigs total power. Sailbattens can also diminish or extend – a sails range of peak performance. **FIBERFOAM** are the worlds leading Sailbattens.

## Why **FIBERFOAM** Composite Sailbattens?

You have got a new sail and you want to go fast...  
So why put solid, low-tech, fibreglass rods or bars in your new sail?  
Fiberfoam's Composite construction techniques have been **tried and tested over 25 years** and our battens remain the first choice of today's discerning sailor. Fiberfoams **NEW profiles** are custom designed for modern Rigs. Our flat battens have less tendency to 'S' in the batten pocket and are more resistant to torque. They develop less side-stay wear than round or ribbed profiles, and give a smoother overall sail shape than other profiles. Our sailbattens are your fine tuning tool. **Furthermore, they are fast!**

Be sure your Sailmaker gives the best – insist on **FIBERFOAM** Composite Sailbattens.

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Scott Anderson, Barbara Porkert

## Here is why:

- Light
- Fast Aerodynamic shapes
- Biggest range of Battens of any producer worldwide
- Accurate & Optimal Stiffness to suit your sail
- User friendly surfaces – No Fibreglass in fingers

## Contact:

**FIBERFOAM** Austria  
Bundesstraße 106 | A-5721 Piesendorf  
Phone / Fax: +43 (0)6549 20159  
info@fiberfoam.net | www.fiberfoam.net



Hans Peter Steinacher

## YACHTS-Leech

These popular battens are light, strong and cost effective. Unlike other leech battens which are parallel at the back, our **new shape** has a progressively stiffer back section to give extra vital support as it tapers back to the leech. The result is much better control of the leech section from main sheet tension, and a more gust responsive leech.



Boat Length	Batten #1 = Top	Batten Type Standard-CRUIISING	Batten Type Carbon-RACING	Batten Code Standard	Batten Code Carbon
8 Meter 25'er	#1	18mm Medium Full	18mm Medium Full	18M - F	18M - F
	#2	15mm Hard Leech	10mm Carbon Yacht	15H - Y	10C - Y
	#3	18mm Medium Leech	10mm Carbon Yacht	18M - Y	10C - Y
	#4	18mm Hard Leech	12mm Carbon Yacht	18H - Y	12C - Y
10 Meter 33'er	#1	22mm Hard Full	22mm Hard Full	22H - F	22H - F
	#2	22mm Hard Leech	15mm Carbon Yacht	22H - Y	15C - Y
	#3	26mm XHard Leech	18mm Carbon Yacht	26XH - Y	18C - Y
	#4	26mm XHard Leech	22mm Carbon Yacht	26XH - Y	22C - Y
12 Meter 40'er	#1	26mm Hard Full	26mm Hard Full	26H - F	26H - F
	#2	26mm XHard Leech	18mm Carbon Yacht	26XH - Y	18C - Y
	#3	30mm XHard Leech	22mm Carbon Yacht	30XH - Y	22C - Y
	#4	30mm XHard Leech	26mm Carbon Yacht	30XH - Y	26C - Y
	#5	30mm XHard Leech	26mm Carbon Yacht	30XH - Y	26C - Y
14 Meter 45'er	#1	30mm XHard Full	30mm XHard Full	30XH - F	30XH - F
	#2	30mm XHard Leech	22mm Carbon Yacht	30XH - Y	22C - Y
	#3	40mm XHard Leech	26mm Carbon Yacht	40XH - Y	26C - Y
	#4	40mm XHard Leech	30mm Carbon Yacht	40XH - Y	30C - Y
	#5	40mm XHard Leech	30mm Carbon Yacht	40XH - Y	30C - Y
15 Meter 50'er	#1	40mm XHard Full	40mm XHard Full	40XH - F	40XH - F
	#2	50mm Hard Leech	30mm Carbon Yacht	50H - Y	30C - Y
	#3	50mm XHard Leech	40mm Carbon Yacht	50XH - Y	40C - Y
	#4	50mm XHard Leech	40mm Carbon Yacht	50XH - Y	40C - Y
	#5	50mm XHard Leech	40mm Carbon Yacht	50XH - Y	40C - Y

### Order Options:

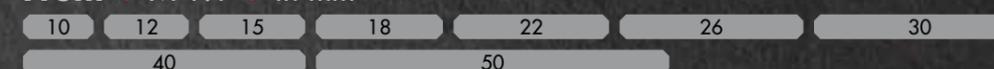
**You Specify:** Send us Batten Lengths/Batten Widths/Stiffness (Med, Hard, etc.)  
... or ...

**We Specify:** Send us Batten Lengths/Boat Class (can also add Sail Area)

then mail to: [info@fiberfoam.net](mailto:info@fiberfoam.net)

### Yachts-Leech cross section:

Front | M 1:1 | in mm



Back | M 1:1 | in mm at 2m length



## YACHTS-Fullbatten

These high performance battens are now better than ever. The new profile gives maximum draft at approximately 42% and an excellent ratio of tip bend to leech stiffness that results in a more efficient rig.

Now used in all types of Fullbatten mainsails ranging from Cruising to Racing Yachts. Why loose out on speed? With **FIBERFOAM** Composite Fullbattens, you could find that elusive winning edge.

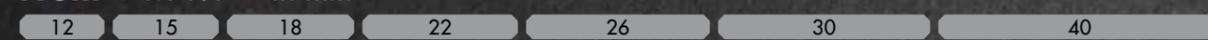
Also good news for the cruising yachtsman because apart for being faster, we reduce weight aloft – easier to handle – an important consideration if sailing short handed! **FIBERFOAM** Composite Fullbattens are up to 50% lighter than standard glass battens for the same stiffness.



Boat Length	Batten #1 = Top	Batten Type Standard-CRUIISING	Batten Type Carbon-RACING	Batten Code Standard	Batten Code Carbon
8 Meter 25'er	#1	18mm Medium Full	18mm Medium Full	18M - F	18M - F
	#2	18mm Hard Full	12mm Carbon Full	18H - F	12C - F
	#3	18mm Hard Full	12mm Carbon Full	18H - F	12C - F
	#4	18mm Hard Full	15mm Carbon Full	18H - F	15C - F
	#5	18mm Hard Full	15mm Carbon Full	18H - F	15C - F
10 Meter 33'er	#1	22mm Hard Full	22mm Hard Full	22H - F	22H - F
	#2	22mm Hard Full	15mm Carbon Full	22H - F	15C - F
	#3	22mm Hard Full	18mm Carbon Full	22H - F	18C - F
	#4	22mm XHard Full	18mm Carbon Full	22H - F	18C - F
	#5	22mm XHard Full	18mm Carbon Full	22H - F	18C - F
12 Meter 40'er	#1	26mm Hard Full	26mm Hard Full	26H - F	26H - F
	#2	26mm XHard Full	22mm Carbon Full	26XH - F	22C - F
	#3	26mm XHard Full	22mm Carbon Full	26XH - F	22C - F
	#4	26mm XHard Full	22mm Carbon Full	26XH - F	22C - F
	#5	26mm XHard Full	22mm Carbon Full	26XH - F	22C - F
14 Meter 45'er	#1	30mm XHard Full	30mm XHard Full	30XH - F	30XH - F
	#2	30mm XHard Full	26mm Carbon Full	30XH - F	26C - F
	#3	30mm XHard Full	26mm Carbon Full	30XH - F	26C - F
	#4	30mm XHard Full	26mm Carbon Full	30XH - F	26C - F
	#5	30mm XHard Full	26mm Carbon Full	30XH - F	26C - F
15 Meter 50'er	#1	40mm XHard Full	40mm XHard Full	40XH - F	40XH - F
	#2	40mm XHard Full	30mm Carbon Full	40XH - F	30C - F
	#3	40mm XHard Full	30mm Carbon Full	40XH - F	30C - F
	#4	40mm XHard Full	30mm Carbon Full	40XH - F	30C - F
	#5	40mm XHard Full	30mm Carbon Full	40XH - F	30C - F

### Yachts-Fullbatten cross section:

Front | M 1:1 | in mm



Back | M 1:1 | in mm at 2m length



### Order Options:

**You Specify:** Send us Batten Lengths/Batten Widths/Stiffness (Med, Hard, etc.)

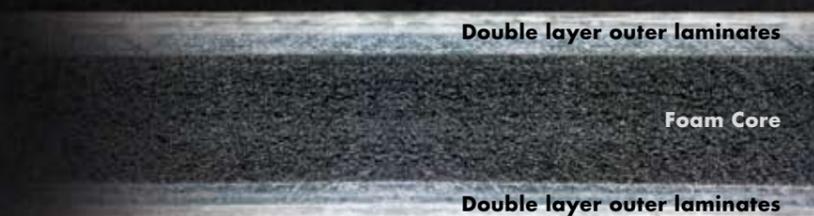
... or ...

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then mail to: [info@fiberfoam.net](mailto:info@fiberfoam.net)

# BIG-BOAT Battens

TAPERED Composite Leech & Fullbattens



- Ultra stiff flat battens suitable for large ocean-going Mono and Multihull sailing craft
- Flat battens give less Sidestay wear than round or box profiled battens
- Lower profile so easier to roller-reef and less space in In-Boom systems
- Outer skins of double thickness Carbon/E Glass Hybrid laminates
- For Leech Battens we recommend our **FLEX TIP**



Sail Area m <sup>2</sup>	to 60 m <sup>2</sup>	60 m <sup>2</sup> – 90 m <sup>2</sup>	90 m <sup>2</sup> – 120 m <sup>2</sup>	+ 120 m <sup>2</sup>
Batten Widths (mm)	18	22 / 26	30 / 40	50 / 60 / 80
Some Examples	RC 40 40'ers	Extreme 40 Swan 45 50'ers	TP 52 60' Maxis 140'er Jib FY 61	FY 61 70' Maxis 80' Maxis J Class

Narrower Widths = Lighter / Lower Cost  
Wider Widths = Heavier / Higher Cost / More Durable

## Order Options:

**You Specify:** Send us Batten Lengths/Batten Widths/Stiffness (Med, Hard, etc.)  
... or ...

**We Specify:** Send us Batten Lengths/Boat Class (can also add Sail Area)

then mail to: [info@fiberfoam.net](mailto:info@fiberfoam.net)



## BIG-BOAT Battens cross section:

**Front** | thickness from 2,5 mm for Leech up to 9,5 mm for Fullbatten | M 1:1 | in mm

18 – 80      18 – 80

**Back** | M 1:1 | in mm at 2m length

18      22      26      30      40

50      60

80

## DINGHYS & SKIFFS

Our very latest profile. With the emphasis on weight savings **FIBERFOAM** Composite Dinghy Battens are designed for the competitive racer.

- Light – up to 70% lighter than Glass battens
- Fast Aerodynamic shapes – proven & tested in High Performance classes
- Made to exacting compression tolerances – you get what you need – the right curve and the right stiffness



Batten width	8' / 2,4 m	10' / 3 m	12' / 3,6 m	14' / 4,3 m	16' / 4,9 m	18' – 20' / 5,5 – 6 m
10 mm	Medium	Medium Hard	Hard X-Hard Carbon	Hard X-Hard Carbon		
12 mm		Medium	Medium Hard X-Hard	Medium Hard X-Hard	Hard X-Hard Carbon	
15 mm			Medium Hard	Medium Hard	Medium Hard X-Hard	Hard X-Hard Carbon
18 mm					Medium Hard	Medium Hard X-Hard
<b>Examples</b>	Opti Sabot Zoom 8	Europe Open BIC RS Tera	12'er Flying 11 Byte FJ RS Feva	14'er 29'er 420 B-14 Finn I-14 Laser Musto PS OK	16'er 49'er 470 505 Contender Fireball Laser II Snipe	18'er DN Iceboat FD

Narrower Widths = Lighter / Lower Cost  
Wider Widths = Heavier / Higher Cost / More Durable

### Order Options:

**You Specify:** Send us Batten Lengths/Batten Widths/Stiffness (Med, Hard, etc.)  
... or ...

**We Specify:** Send us Batten Lengths/Boat Class (can also add Sail Area)

then mail to: [info@fiberfoam.net](mailto:info@fiberfoam.net)

### Dinghys & Skiffs Batten cross section:

Front | M 1:1 | in mm



Back | M 1:1 | in mm at 2m length



# CATAMARANS

Our famous **FIBERFOAM Catbattens** are now better than ever. The **new profile** gives maximum draft at approximately 42% and an excellent ratio of tip bend to leech stiffness that results in a more efficient rig.

Now used in all types of Fullbatten mainsails ranging from Cruising to Racing Cats. Why loose out on speed? With **FIBERFOAM Catbattens**, you could find that elusive winning edge. Also good news for the cruising sailor and Charter fleets. The lighter weight means less wear-and-tear, plus are easier to handle – an important consideration if sailing short handed!

**FIBERFOAM** Fullbattens are up to half the weight of standard glass battens for the same stiffness.



Batten width	12'- 14' 4,3 m	16' 4,9 m	18'- 22' 5,5 - 6,7 m	23'- 30' 7 - 9,1 m	31'- 36' 9,4 - 11 m	37'- 45' 11,3 - 13,7 m
10 mm	Hard	Carbon				
12 mm	Medium Hard		Carbon			
15 mm	Medium	Medium Hard	Hard X-Hard			
18 mm		Medium	Medium Hard	Carbon		
22 mm				Carbon	Carbon	Double Carbon
26 mm				X-Hard	Carbon	Double Carbon
30 mm				Hard	X-Hard	Carbon
40 mm					Hard	X-Hard
<b>Some Examples</b>	Hobie 14	F-16 Hobie 16	A Cat F 18 Tornado	Dragonflys Racers	Farriers Racers	Extreme 40 Cruisers

Narrower Widths = Lighter / Lower Cost (except Carbon)  
Wider Widths = Heavier / Higher Cost / More Durable

## Order Options:

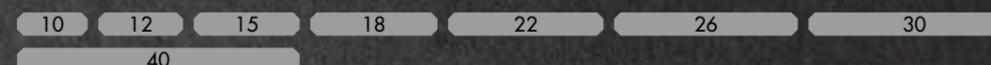
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## Catamaran Batten cross section:

Front | M 1:1 | in mm



Back | M 1:1 | in mm at 2m length



## CLASS Sets – ready to go

**FIBERFOAM** are the leaders in factory finished sets custom made to suit your boat. We have an extensive data base with specifications for most classes and boats. You get the fastest shapes and the right stiffnesses – every time.

Ask us at [info@fiberfoam.net](mailto:info@fiberfoam.net) for a Free Quote.



## TECHNICAL TIPS

### Tapered or Untapered?

The whole aim of the sailmaker's art is to develop lift to drive the boat through the water. The sail is like an aircraft's wing and is designed to develop as much lift with as little drag as possible. And how many wings have you seen with a 50% wing shape? Modern sails are designed and made with their position of maximum camber at between 38% and 45%.

### So why use Untapered battens?

Except for special cases like top battens on some cats and dinghies, there is no good reason! Untapered Fullbattens distort sail shape by giving too fine entry, moving the draft or designed shape too far aft, and giving a rounded leech in strong wind. They give high lift (in the sideways direction) and high drag. If your rig is not accelerating in gusts but just developing heeling moment then your battens could be the problem. Untapered battens also lower the life span of your sail by working against the sailmakers design. Low cost, low quality Untapered battens cost you more in the long run!

### Stiffness

A battens 'Stiffness' or 'Compression' is simply the force, in kg or pounds, that is required to bend it to a certain point. That certain point is where any increased bending of the batten gives very little change to the kg or pound reading of the scale. At **FIBERFOAM** we have up-to-date compressions for many classes and boats.

### Not sure which Battens?

If you are in doubt about which battens are best for your sail, ask us about our specific class recommendations, or send us a sailplan plus batten lengths.

### Custom made Battens?

When you need something special, send us: Batten lengths, compression (in kg or pounds), width, and the desired position of maximum camber. With this information we can manufacture almost any batten you could desire.

Contact [info@fiberfoam.net](mailto:info@fiberfoam.net) for a Quote.



# **FIBERFOAM**

## Composite *Sailbattens*



### Contact:

**FIBERFOAM** Austria  
Bundesstraße 106 | A-5721 Piesendorf  
Phone / Fax: +43 (0)6549 20159  
info@fiberfoam.net | www.fiberfoam.net

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