

C-T PLATE BATTENS

CTP FULL
LENGTH
CTP LEECH

This range of solid composite battens is designed to complement and extend the range of C-T SailBattens.



PHOTO: Yamaha (18ft Skiff)
Christophe Favreau

C-T PLATE BATTENS

C-T PlateBattens are available in full-length, leech and vertical leech battens; for use where weight saving and strength are top priorities. They are manufactured from the highest quality prepreg cured to 120°.

C-T PlateBattens are designed for:

- Racing yachts.
- Skiffs and racing dinghies (mainsail).
- Multihulls.
- Cruisers who need a performance boost.

Yacht Sizes

Yachts 10ft – 50ft: **Full Length**

Yachts 18ft – 70ft: **Jib Leech**

Yachts 40ft – 120ft: **Vertical Leech**

Yachts 40ft – 90ft: **Main (flutter)**

Key Features

- Prepreg fibre cured at 120°C provides the best strength-to-weight ratio
- Taper built into laminate
No sanding or grinding is needed to achieve the required bend characteristics.
- No delamination
Continuous outer layers prevent delamination/splintering on batten surface.
- Stock batten lengths
- Wide range of widths and stiffnesses

Design Advantages



PHOTOS: Left – Chris Rashley (Moth)
Right – 72ft Reichel Pugh Jib

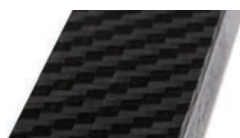
ADVANCED TECHNOLOGY

C-Tech sustains a continual R&D programme to refine existing composite products, introduce new materials and develop new product breakthroughs for customers.

C-T PlateBattens are designed using custom software, which allows laminate layers to be adjusted to tailor stiffness and draft position for sail requirements.

Laminates are tapered during production; therefore, **C-T PlateBattens** do not need grinding. The continuous layers of fibre on the outside of the batten make **C-T PlateBattens** stronger and remove the risk of delamination or splintering.

Rather than grinding parallel sections to produce taper for leech battens, C-Tech's unique manufacturing process blends fibre from carbon at the leech to S-glass at the tip. This produces strong flexible tips without extra weight. Full-length and leech **C-T PlateBattens** can be distinguished by the surface finish:



Full-length battens have cloth outside layers.



Leech battens have S-glass outside layers.

TRIMMING INSTRUCTIONS

C-T PlateBattens should always be trimmed from the leech end to maintain consistent draft position.



It's an easy decision to choose C-Tech Plate Battens when using flat backed jibs at diminishing sheeting angles, without compromising on durability.

Kevin George

Specifying C-T PlateBattens



PHOTO: C-Tech (8ft Skiff)
Christophe Favreau

FULL-LENGTH

DRAFT POSITION 40-45%

The **C-T PlateBatten** is made from quality prepreg carbon fibre with a carbon cloth outer layer.

C-T PlateBattens are available in stock lengths from 1,000 to 4,000mm long. Longer battens can be made to order.

VERTICAL LEECH

Made from prepreg carbon fibre and prepreg S-glass, the vertical leech batten has a short taper at the tip. A reinforced patch can be provided at the tip which allows a lashing hole to be drilled if a luff-loaded lashing system is required. Available in lengths from 1,500 to 3,500mm long.

LEECH

MAXIMUM DRAFT POSITION 35%

Made from a blend of prepreg carbon fibre and prepreg S-glass. A higher percentage of S-glass near the tip provides flexible, durable leech battens with the right bend characteristics. Available in stock lengths from 1,000 to 3,500mm long.

THERE ARE THREE METHODS YOU CAN USE TO SPECIFY C-T PLATEBATTENS:

1. Convert from existing battens to C-T PlateBattens using conversion charts.

If you are currently using a batten with a known EI value, you can specify a **C-T PlateBatten** with the closest EI. Conversion charts and five point EI tables are published at http://sailbattens.com/bat_ctp.htm for the complete range of full length and leech battens.

It's easy to switch

Use our online conversion chart
sailbattens.com/bat_ctp.htm

2. Request C-T PlateBattens for a new sail based on C-Tech standard sets.

Our sales team can specify a set of **C-T PlateBattens** for a given yacht type using our experience and database of previously supplied boats.

3. Bend test existing battens to calculate EI value.

Measure the stiffness (EI) of your existing battens using the method detailed on page 8. We strongly recommend to only bend test the back half of the batten to ensure the taper does not influence the results. Use a weight that will deflect the batten to approximately 10% camber. Once the EI values have been established you will have a reference point to specify **C-T PlateBattens** from the tables. For full five point EI tables of the C-T PlateBatten range go to http://sailbattens.com/bat_ctp.htm

NOTE: The EI values in the specification tables (page 14-15) refer to the stiffness (measured in Nm²) at the leech end of the batten excluding taper.

Specifications

Full-length Plate Battens

10mm Full Length

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP10320/1000	10	3.2	1,000	2.7	45
CTP10320/1500	10	3.2	1,500	2.7	68
CTP10320/2000	10	3.2	2,000	2.7	90
CTP10320/2500	10	3.2	2,500	2.7	113
CTP10320/3000	10	3.2	3,000	2.7	135
CTP10380/1000	10	3.8	1,000	4.6	54
CTP10380/1500	10	3.8	1,500	4.6	80
CTP10380/2000	10	3.8	2,000	4.6	107
CTP10380/2500	10	3.8	2,500	4.6	134
CTP10380/3000	10	3.8	3,000	4.6	161
CTP10440/1000	10	4.4	1,000	7.4	62
CTP10440/1500	10	4.4	1,500	7.4	93
CTP10440/2000	10	4.4	2,000	7.4	124
CTP10440/2500	10	4.4	2,500	7.4	155
CTP10440/3000	10	4.4	3,000	7.4	186
CTP10440/3500	10	4.4	3,500	7.4	217

15mm Full Length

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP15320/1000	15	3.2	1,000	4.0	68
CTP15320/1500	15	3.2	1,500	4.0	101
CTP15320/2000	15	3.2	2,000	4.0	135
CTP15320/2500	15	3.2	2,500	4.0	169
CTP15320/3000	15	3.2	3,000	4.0	203
CTP15380/1000	15	3.8	1,000	7.0	80
CTP15380/1500	15	3.8	1,500	7.0	121
CTP15380/2000	15	3.8	2,000	7.0	161
CTP15380/2500	15	3.8	2,500	7.0	201
CTP15380/3000	15	3.8	3,000	7.0	241
CTP15440/1000	15	4.4	1,000	11.1	93
CTP15440/1500	15	4.4	1,500	11.1	140
CTP15440/2000	15	4.4	2,000	11.1	186
CTP15440/2500	15	4.4	2,500	11.1	233
CTP15440/3000	15	4.4	3,000	11.1	279
CTP15440/3500	15	4.4	3,500	11.1	326
CTP15560/1000	15	5.6	1,000	24.0	120
CTP15560/1500	15	5.6	1,500	24.0	180
CTP15560/2000	15	5.6	2,000	24.0	241
CTP15560/2500	15	5.6	2,500	24.0	301
CTP15560/3000	15	5.6	3,000	24.0	361
CTP15560/3500	15	5.6	3,500	24.0	421
CTP15680/2500	15	6.8	2,500	44.1	367
CTP15680/3000	15	6.8	3,000	44.1	440
CTP15680/3500	15	6.8	3,500	44.1	513
CTP15680/4000	15	6.8	4,000	44.1	587

19mm Full Length

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP19380/1000	19	3.8	1,000	8.8	102
CTP19380/1500	19	3.8	1,500	8.8	152
CTP19380/2000	19	3.8	2,000	8.8	203
CTP19380/2500	19	3.8	2,500	8.8	254
CTP19380/3000	19	3.8	3,000	8.8	305
CTP19380/3500	19	3.8	3,500	8.8	356
CTP19440/1000	19	4.4	1,000	14.1	118
CTP19440/1500	19	4.4	1,500	14.1	177
CTP19440/2000	19	4.4	2,000	14.1	236
CTP19440/2500	19	4.4	2,500	14.1	295
CTP19440/3000	19	4.4	3,000	14.1	353
CTP19440/3500	19	4.4	3,500	14.1	412

19mm Full-length Continued...

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP19560/1000	19	5.6	1,000	30.4	152
CTP19560/1500	19	5.6	1,500	30.4	229
CTP19560/2000	19	5.6	2,000	30.4	305
CTP19560/2500	19	5.6	2,500	30.4	381
CTP19560/3000	19	5.6	3,000	30.4	457
CTP19560/3500	19	5.6	3,500	30.4	533
CTP19560/4000	19	5.6	4,000	30.4	609
CTP19680/2500	19	6.8	2,500	55.9	464
CTP19680/3000	19	6.8	3,000	55.9	557
CTP19680/3500	19	6.8	3,500	55.9	650
CTP19680/4000	19	6.8	4,000	55.9	743
CTP19800/2500	19	8.0	2,500	92.8	544
CTP19800/3000	19	8.0	3,000	92.8	652
CTP19800/3500	19	8.0	3,500	92.8	761
CTP19800/4000	19	8.0	4,000	92.8	870

25mm Full Length

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP25380/1500	25	3.8	1,500	11.6	202
CTP25380/2000	25	3.8	2,000	11.6	270
CTP25380/2500	25	3.8	2,500	11.6	337
CTP25380/3000	25	3.8	3,000	11.6	405
CTP25380/3500	25	3.8	3,500	11.6	472
CTP25440/1500	25	4.4	1,500	18.6	235
CTP25440/2000	25	4.4	2,000	18.6	313
CTP25440/2500	25	4.4	2,500	18.6	391
CTP25440/3000	25	4.4	3,000	18.6	470
CTP25440/3500	25	4.4	3,500	18.6	548
CTP25560/1500	25	5.6	1,500	40.0	301
CTP25560/2000	25	5.6	2,000	40.0	401
CTP25560/2500	25	5.6	2,500	40.0	501
CTP25560/3000	25	5.6	3,000	40.0	601
CTP25560/3500	25	5.6	3,500	40.0	702
CTP25560/4000	25	5.6	4,000	40.0	802
CTP25680/2500	25	6.8	2,500	73.5	611
CTP25680/3000	25	6.8	3,000	73.5	733
CTP25680/3500	25	6.8	3,500	73.5	855
CTP25680/4000	25	6.8	4,000	73.5	978
CTP25800/2500	25	8.0	2,500	122.1	715
CTP25800/3000	25	8.0	3,000	122.1	858
CTP25800/3500	25	8.0	3,500	122.1	1,001
CTP25800/4000	25	8.0	4,000	122.1	1,144
CTP25920/2500	25	9.2	2,500	188.4	823
CTP25920/3000	25	9.2	3,000	188.4	988
CTP25920/3500	25	9.2	3,500	188.4	1,152
CTP25920/4000	25	9.2	4,000	188.4	1,317

Vertical Leech Plate Battens

19mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP19780/1500LV	19	7.8	1,500	49	295
CTP19780/2000LV	19	7.8	2,000	49	393
CTP19780/2500LV	19	7.8	2,500	49	491
CTP19780/3000LV	19	7.8	3,000	49	589
CTP19870/1500LV	19	8.7	1,500	62.8	331
CTP19870/2000LV	19	8.7	2,000	62.8	442
CTP19870/2500LV	19	8.7	2,500	62.8	552
CTP19870/3000LV	19	8.7	3,000	62.8	663
CTP19870/3500LV	19	8.7	3,500	62.8	773
CTP19960/2000LV	19	9.6	2,000	90.3	487
CTP19960/2500LV	19	9.6	2,500	90.3	608
CTP19960/3000LV	19	9.6	3,000	90.3	730
CTP19960/3500LV	19	9.6	3,500	90.3	852

Vertical Leech Plate Battens Continued...

25mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP25870/2000LV	25	8.7	2,000	82.6	582
CTP25870/2500LV	25	8.7	2,500	82.6	727
CTP25870/3000LV	25	8.7	3,000	82.6	872
CTP25870/3500LV	25	8.7	3,500	82.6	1,018
CTP25960/2000LV	25	9.6	2,000	118.9	640
CTP25960/2500LV	25	9.6	2,500	118.9	800
CTP25960/3000LV	25	9.6	3,000	118.9	960
CTP25960/3500LV	25	9.6	3,500	118.9	1120

Leech Plate Battens

10mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP10390/1000L	10	3.9	1,000	3.2	55
CTP10390/1500L	10	3.9	1,500	3.2	79
CTP10390/2000L	10	3.9	2,000	3.2	105
CTP10390/2500L	10	3.9	2,500	3.2	131
CTP10390/3000L	10	3.9	3,000	3.2	158
CTP10510/1000L	10	5.1	1,000	6.5	69
CTP10510/1500L	10	5.1	1,500	6.5	104
CTP10510/2000L	10	5.1	2,000	6.5	138
CTP10510/2500L	10	5.1	2,500	6.5	173
CTP10510/3000L	10	5.1	3,000	6.5	208
CTP10660/1000L	10	6.6	1,000	13.8	90
CTP10660/2000L	10	6.6	2,000	13.8	179

15mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP15390/1000L	15	3.9	1,000	5.1	71
CTP15390/1500L	15	3.9	1,500	5.1	106
CTP15390/2000L	15	3.9	2,000	5.1	141
CTP15390/2500L	15	3.9	2,500	5.1	177
CTP15390/3000L	15	3.9	3,000	5.1	212
CTP15510/1000L	15	5.1	1,000	10.6	95
CTP15510/1500L	15	5.1	1,500	10.6	142
CTP15510/2000L	15	5.1	2,000	10.6	190
CTP15510/2500L	15	5.1	2,500	10.6	238
CTP15510/3000L	15	5.1	3,000	10.6	285
CTP15660/1000L	15	6.6	1,000	22.5	124
CTP15660/1500L	15	6.6	1,500	22.5	186
CTP15660/2000L	15	6.6	2,000	22.5	249
CTP15660/2500L	15	6.6	2,500	22.5	311
CTP15660/3000L	15	6.6	3,000	22.5	373
CTP15660/3500L	15	6.6	3,500	22.5	435
CTP15780/1000L	15	7.8	1,000	41.0	144
CTP15780/1500L	15	7.8	1,500	41.0	216
CTP15780/2000L	15	7.8	2,000	41.0	288
CTP15780/2500L	15	7.8	2,500	41.0	360
CTP15780/3000L	15	7.8	3,000	41.0	432
CTP15780/3500L	15	7.8	3,500	41.0	504
CTP15870/1000L	15	8.7	1,000	49.5	177
CTP15870/1500L	15	8.7	1,500	49.5	266
CTP15870/2000L	15	8.7	2,000	49.5	355
CTP15870/2500L	15	8.7	2,500	49.5	443
CTP15870/3000L	15	8.7	3,000	49.5	532
CTP15870/3500L	15	8.7	3,500	49.5	621
CTP15960/1500L	15	9.6	1,500	75.9	265
CTP15960/2000L	15	9.6	2,000	75.9	354
CTP15960/2500L	15	9.6	2,500	75.9	443
CTP15960/3000L	15	9.6	3,000	75.9	531
CTP15960/3500L	15	9.6	3,500	75.9	620

Leech Plate Battens Continued...

19mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP19510/1000L	19	5.1	1,000	13.4	120
CTP19510/1500L	19	5.1	1,500	13.4	180
CTP19510/2000L	19	5.1	2,000	13.4	241
CTP19510/2500L	19	5.1	2,500	13.4	301
CTP19510/3000L	19	5.1	3,000	13.4	362
CTP19660/1000L	19	6.6	1,000	28.5	157
CTP19660/1500L	19	6.6	1,500	28.5	236
CTP19660/2000L	19	6.6	2,000	28.5	315
CTP19660/2500L	19	6.6	2,500	28.5	394
CTP19660/3000L	19	6.6	3,000	28.5	473
CTP19660/3500L	19	6.6	3,500	28.5	551
CTP19780/1000L	19	7.8	1,000	52.0	182
CTP19780/1500L	19	7.8	1,500	52.0	273
CTP19780/2000L	19	7.8	2,000	52.0	364
CTP19780/2500L	19	7.8	2,500	52.0	456
CTP19780/3000L	19	7.8	3,000	52.0	547
CTP19780/3500L	19	7.8	3,500	52.0	638
CTP19870/1000L	19	8.7	1,000	62.8	225
CTP19870/1500L	19	8.7	1,500	62.8	337
CTP19870/2000L	19	8.7	2,000	62.8	449
CTP19870/2500L	19	8.7	2,500	62.8	562
CTP19870/3000L	19	8.7	3,000	62.8	674
CTP19870/3500L	19	8.7	3,500	62.8	786
CTP19960/1500L	19	9.6	1,500	96.1	336
CTP19960/2000L	19	9.6	2,000	96.1	449
CTP19960/2500L	19	9.6	2,500	96.1	561
CTP19960/3000L	19	9.6	3,000	96.1	673
CTP19960/3500L	19	9.6	3,500	96.1	786

25mm Leech

Batten Code	Width (Mm)	Thickness (Mm)	Length (Mm)	Ei (Nm ²)	Weight (Grams)
CTP25510/1500L	25	5.1	1,500	17.6	238
CTP25510/2000L	25	5.1	2,000	17.6	317
CTP25510/2500L	25	5.1	2,500	17.6	397
CTP25510/3000L	25	5.1	3,000	17.6	476
CTP25660/1500L	25	6.6	1,500	37.5	311
CTP25660/2000L	25	6.6	2,000	37.5	414
CTP25660/2500L	25	6.6	2,500	37.5	518
CTP25660/3000L	25	6.6	3,000	37.5	622
CTP25660/3500L	25	6.6	3,500	37.5	726
CTP25780/1500L	25	7.8	1,500	68.4	360
CTP25780/2000L	25	7.8	2,000	68.4	480
CTP25780/2500L	25	7.8	2,500	68.4	600
CTP25780/3000L	25	7.8	3,000	68.4	720
CTP25780/3500L	25	7.8	3,500	68.4	840
CTP25870/1500L	25	8.7	1,500	82.6	443
CTP25870/2000L	25	8.7	2,000	82.6	591
CTP25870/2500L	25	8.7	2,500	82.6	739
CTP25870/3000L	25	8.7	3,000	82.6	887
CTP25870/3500L	25	8.7	3,500	82.6	1,034
CTP25960/1500L	25	9.6	1,500	126.4	443
CTP25960/2000L	25	9.6	2,000	126.4	591
CTP25960/2500L	25	9.6	2,500	126.4	738
CTP25960/3000L	25	9.6	3,000	126.4	886
CTP25960/3500L	25	9.6	3,500	126.4	1,034

'We would not consider using any other battens in our sails.'

Jens Christensen

PHOTO: TP52 Super Series
Max Rancchi

CT22

CTP



PEACE-OF-MIND PERFORMANCE

Through our ability to satisfy and stretch beyond customer expectations we have built a global reputation for time-tested performance.

Ordering

C-T SailBattens and C-T PlateBattens are available to sailmakers and end-users directly. To place an orders please contact: orders@sailbattens.com

Prices/Quotes

For price information or a quote, please e-mail C-Tech: info@sailbattens.com

Or complete the enquiry form on the C-T SailBattens website: www.sailbattens.com/orders.htm

Online Support and Installation Guides



Look out for our installation guides and batten repair brochures to ensure the maximum lifetime of our products. These can be downloaded from:

www.sailbattens.com
www.snuffair.com

- SnuffAir Instructions for Use
- FlexiFurl Installation Instructions
- SailBatten Joining and Trimming Instructions
- SailBatten Repair Instructions

Worldwide Delivery

C-T SailBattens products are delivered worldwide via sea freight or air freight.

Pre-fitted factory joins allow battens to be supplied in sections.

Joins must be glued on arrival, as the final strength of the batten depends on the glued join.



QUALITY CERTAINTY

All C-Tech's products are made expertly from robust, high-quality materials to exacting specifications. They are more than a match for the rigorous demands of performance and durability required by our customers.



PERFECT FIT

Few of C-Tech's customer needs are the same, so we offer an extensive range of products carefully designed to meet the many specialised requirements of our worldwide customers.



ADVANCED TECHNOLOGY

C-Tech has a continual R&D programme to refine existing composite products, introduce new materials and develop new product breakthroughs for customers.



FAST RESPONSE

C-Tech has the ability to adapt quickly to changing customer requirements and to provide rapid answers to all customer enquiries.



VALUE FOR MONEY

At C-Tech, we are performance rather than price driven; however, we always ensure our customers get optimum value for their money.



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Results are everything – **Performance-led Composite Solutions for Yachting, Sport and Manufacturing**