

Bend Test Details - Explanation of Results

C-Tech Ltd - P/O: Samples (10/06/2002)

Batten #	Test Lngth	Test	1/4	1/2	3/4	Front%	Back%	Camb	El results
Note 1: <input type="checkbox"/> Batten no.	#1 001842 14-1 2300 mm 1.190 kg	Self Weight	0	0	0				Front 0.00
		6.8 kg load	31	49	34				Back 0.00
		Difference	31	49	34	63.27%	69.39%	2.23%	3 pt 301.88
Note 2: <input type="checkbox"/> Barcode	#1 001693 /15-1 4000 mm 2.140 kg	Self Weight	11	14	10				Front 0.00
		6.8 kg load	42	59	41				Back 0.00
		Difference	31	45	31	68.89%	68.89%	1.51%	3 pt 1831.22
Note 3: <input type="checkbox"/> Mandrel	#2 001391 15-1 3550 mm 0.000 kg	Self Weight	5	7	3				Front 0.00
		6.8 kg load	73	96	63				Back 0.00
		Difference	68	89	60	76.40%	67.42%	2.82%	3 pt 613.49
Note 4: <input type="checkbox"/> Weight	#2 001123 15-1 2260 mm 0.000 kg	Self Weight	1	3	1				Front
		6.8 kg load	40	59	40				Back
		Difference	39	56	39	69.64%	69.64%	2.57%	3 pt 301.82
Note 5: <input type="checkbox"/> Lengths	#2 001123 15-1 2260 mm 0.000 kg	Self Weight	1	3	1				Front
		6.8 kg load	40	59	40				Back
		Difference	39	56	39	69.64%	69.64%	2.57%	3 pt 301.82

Total Length (m) 12.11 **Length with Weights** 6.30 **Note 6: Test Results**
Total Weight (kg) 3.33 **Avg Weight (kg/m)** 0.529

Note 1: Batten number

Indicates batten number, from smallest at head of sail (#1) to largest at foot of sail.

Note 2: Barcode

All battens have a unique barcode near the luff end. Barcodes identify battens within the CT database so laminate and bend characteristics can be duplicated or used as a reference point for alterations.

Note 3: Mandrel

Indicates which mandrel the batten was built on. Mandrels with larger numbers have larger IDs.

Note 4: Weight

Indicates weight of individual batten (in kg).

Note 5: Lengths

Test length is the length over which the 3 point bend test is performed. Actual length is shown below barcode.

Note 6: Test results

Front %: $1/4 \text{ Difference} / 1/2 \text{ Difference}$ [eg. for Batten 01391: $68 / 89 = 76.40\%$, expressed as a percentage]

Back %: $3/4 \text{ Difference} / 1/2 \text{ Difference}$ [eg. for Batten 01693: $60 / 89 = 67.42\%$]

Camber: $1/2 \text{ Deflection (under 6.8kg load)} / \text{Test Length}$ [eg. for Batten 01693: $96 / 3400 = 2.82\%$]