

# How to Properly Measure for the Charleston Bending Brace

Designed by C. Ralph Hooper, Jr., CPO



## CHARLESTON BENDING BRACE

#### **CBB Measurement Form** Workorder #: Bending Brace PO/OPS: 524 Barbados Drive., Charleston, SC 29492 **CBB01** Phone: 843-884-2202 -- Fax: 843-884-1554 -- jackie@cbb.org Part Number: Patient Information Ship To: Patient Name: ☐ Female Address: ☐ Male ☐ Pt is a previous CBB Wearer Practitioner Information-Height: ☐ Previous Other/Type: \_\_\_\_ ☐ Same as Ship To Weight: Bill To: IMPORTANT INSTRUCTIONS Ordering Instructions 1. COMPLETE THIS MEASUREMENT FORM 2. PROVIDE AN X-RAY (Digital Images Preferred). Email: 3. EMAIL, FAX, OR MAIL Phone: Material Selection jackie@cbb.org Email: Brace Design Options (Check One) 843-884-1554 Fax: ☐ CBB Modified Polyethylene **Charleston Bending Brace** ☐ Copolymer available on request (not recommended) Attn: Jackie Hooper Mail: 524 Barbados Drive ☐ CBB Lite 1/4" volara soft inside, MPE inner shell, 1/8" volara firm outside Charleston SC 29492 Friddles Color Choices (Check one) ■ White ☐ Pink ☐ Friddles Transfer ☐ Blue NOTE: Please send measurement forms and x-rays only. Tracer Cad Technology precludes the necessity for 3-dimensional body casts. Transfer Pattern #: Pattern Name:

# **CBB Measurement Form**

Color/
Transfer Selection

Accurate measurements

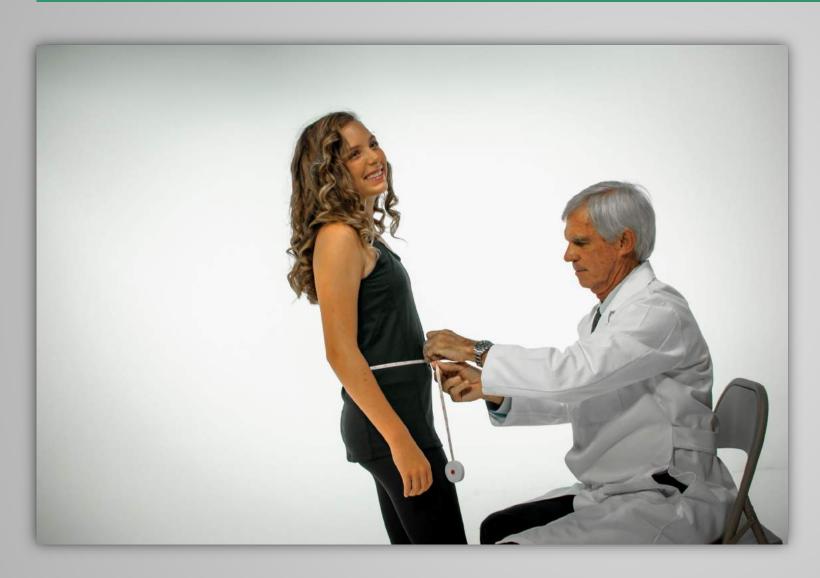
Classification/ Treatment Type

Curve limits, Cobb angles

Brace Bending Right/Left

COD LICE 1/+ VOIGTA SOFT INSIDE, IVIT E IIITIEF	stien, 1/0 volara ilitir odiside				
Friddles Color Choic	es (Check one)		Charlesto	n SC 29492	
☐ White ☐ Pink ☐ Blue  Transfer Pattern #: Pattern Name:	☐ Friddles Transfer	NOTE: Please send measurement forms and x-rays only. Tracer Cad Technology precludes the necessity for 3-dimensional body casts.			
NOTE: Transfer patterns have potential to bleed.		MEAS	UREMENTS IN I	NCHES ONLY	
For MPE - Please choose Friddles recommen charts available on CBB.org and Friddles		All Measurements Can Be Taken Standing or Supine	Circ.	M/L*	A/P*
Advise patients to wear protective controls or those for the first	The state of the s	Axilla			
Select Type Of Treatment	COBB ANGLES:	Xyphoid			
☐ CBB-1 - Double Lumbar Primary	Thoracic	Waist			
☐ CBB-2 - Double Thoracic Primary	Lumbar	ASIS			
	LORDOSIS: Supine mx:	Trochanter			
☐ CBB-4 - Single Thorocolumbar	In brace: □10° □20°	*M/L & A/P measurements taker	n with a M/L mx stick	(not a tape measu	re)
☐ CBB-5 - Double Thoracic	☐ Other:°	Linear mx:	Supine		Standing
Bend Patient to:	Right □ Left	Axilla to Waist		Tota	Finished Length
DATE NEEDED:		Waist to Gluteal Fold			nding Position a to Gluteal Fold
SPECIAL INSTRUCTIONS:		See Illustrations of www.cbb.org c		STATE OF STATES AND PROPERTY.	
		Practitioner:	(Print Name)		
		Signature:			202
All Braces Designed by C. F	Ralph Hooper, Jr., CPO	All Braces Fabric	ated by Friddles	Orthopedic A	ppliances

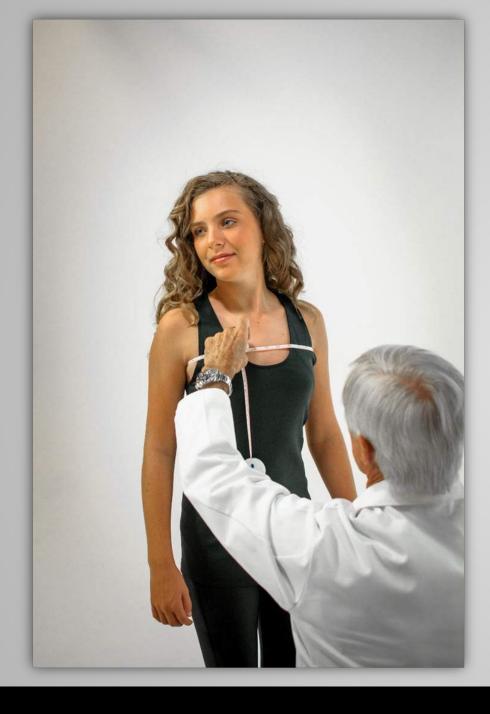
# Before You Measure



Patient should be dressed in tight fitting clothes in order to identify anatomy.

Example: leotard, camisole stockinette t-shirt, etc.

Tools necessary:
Tape Measure
ML stick
Goniometer
Measurement Form
X-ray



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NOTE: Please send meas				echnology
precludes the necessity for 3-dimensional body casts.  MEASUREMENTS IN INCHES ONLY				
SOUTH PROCESS	ASUREMENTS IN	INCHES O	NLY	
All Measurements			.	- 1-4
Can Be Taken	Circ.	M/L*		A/P*
Standing or Supine				
Axilla				
Xyphoid				
Waist				
ASIS				
Trochanter				
*M/L & A/P measurements tal	ken with a M/L mx stic	ck (not a tape	measure)	
Linear mx:	Supine	е	Stan	ding
Axilla to Waist			Total Finishe	ed Length
Waist to Gluteal Fold			Bending P Axilla to Glu	
See Illustrations	under "Order	ring Info	Tab"on W	ebsite
www.cbb.org		. 700		
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#### <u>Circumference Axilla</u>

Tape measure is loose or slightly snug, **NOT TIGHT** 



	NOTE: Please send meas	urement forms and he necessity for 3-c	and the second s		Transaction of the Control of the Co		
			EMENTS IN INCHES ONLY				
- The state of the	All Measurements Can Be Taken Standing or Supine	Circ.	M/L*		A/P*		
	Axilla						
	Xyphoid	<b>/</b>					
	Waist						
	ASIS						
	Trochanter						
	*M/L & A/P measurements tak	en with a M/L mx stic	ck (not a tape	measur	e)		
	Linear mx:	Supine	9		Standing		
	Axilla to Waist			Total	Finished Length		
	Waist to Gluteal Fold			>== 9.5 yr x 9.5	nding Position a to Gluteal Fold		
2000	See Illustrations www.cbb.org		. 734				
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#### <u>Circumference Xyphoid</u>

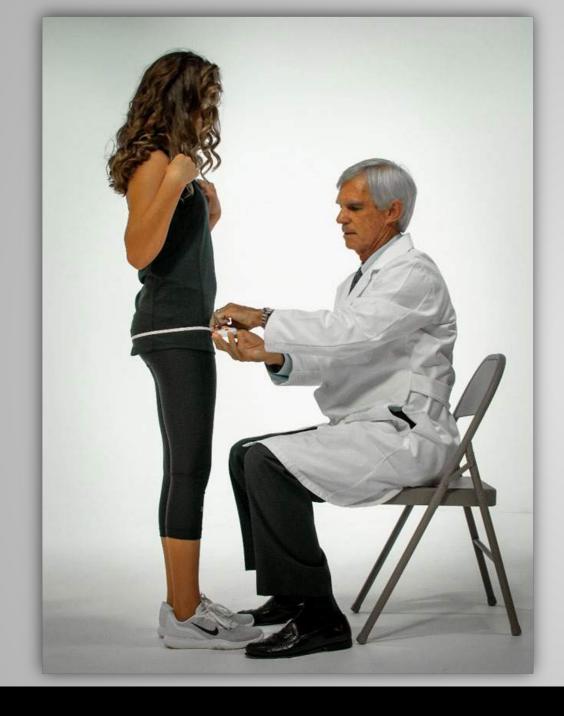
Tape measure loose or slightly snug, **NOT TIGHT** 



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 All Measurements Can Be Taken Standing or Supine	Circ.	M/L*	•	A/P*
Axilla				
Xyphoid				
Waist	<b>/</b>			
 ASIS				
Trochanter				
*M/L & A/P measurements tak	en with a M/L mx sti	ck (not a tape	measur	e)
Linear mx:	Supine	9		Standing
Axilla to Waist			Total	Finished Length
Waist to Gluteal Fold			5-8 OUNDS	nding Position a to Gluteal Fold
See Illustrations	under "Ordei	ing Info	Tab"	on Website
www.cbb.org	or www.orig	inalbendi	ingbi	race.com

#### <u>Circumference Waist</u>

Tape measure is loose or slightly snug, **NOT TIGHT** 



	<b>NOTE:</b> Please send measurement forms and x-rays only. Tracer Cad Technology precludes the necessity for 3-dimensional body casts.					
	No. of the control of	SUREMENTS IN				
200	All Measurements  Can Be Taken  Standing or Supine	Circ.	M/L*		A/P*	
	Axilla					
	Xyphoid					
	Waist					
	ASIS			,		
	Trochanter	<b>/</b>				
	*M/L & A/P measurements tak	en with a M/L mx sti	ck (not a tape	measur	e)	
	Linear mx:	Supine	e		Standing	
	Axilla to Waist			Total	Finished Length	
	Waist to Gluteal Fold			200 200 300	nding Position a to Gluteal Fold	
	See Illustrations www.cbb.org					
		_				

#### <u>Circumference Trochanter</u>

Tape measure pulled slightly snug, not tight, over apex (largest) portion of buttocks usually close to trochanter



NOTE: Please send measur	ement forms and	x-rays only.	Tracer Cad Technology
precludes the	necessity for 3-c	limensional b	oody casts.
MEAS	UREMENTS IN	INCHES O	NLY
All Measurements	0.0000		25 SEC020
Can Be Taken	Circ.	M/L*	A/P*
Standing or Supine			
Axilla			
Xyphoid			
Waist			
ASIS			
Trochanter			
*M/L & A/P measurements taken	n with a M/L mx stic	ck (not a tape i	measure)
Linear mx:	Supine	9	Standing
Axilla to Waist			Total Finished Length
Waist to Gluteal Fold			Bending Position Axilla to Gluteal Fold
See Illustrations u www.cbb.org o			

M/L Axilla

Slightly touching skin



<b>NOTE:</b> Please send meas	urement forms and	x-rays only.	Tracer Cad Technology		
precludes t	precludes the necessity for 3-dimensional body casts.				
MEA	SUREMENTS IN	<b>INCHES O</b>	NLY		
All Measurements					
Can Be Taken	Circ.	M/L*	* A/P*		
Standing or Supine					
Axilla					
Xyphoid					
Waist					
ASIS	0				
Trochanter					
*M/L & A/P measurements tak	en with a M/L mx stic	ck (not a tape	measure)		
Linear mx:	Supine	9	Standing		
Axilla to Waist			Total Finished Length		
Waist to Gluteal Fold			Bending Position Axilla to Gluteal Fold		
See Illustrations www.cbb.org					

M/L Xyphoid
Slightly touching skin



NOTE: Please send measu precludes th	rement forms and			
100000000000000000000000000000000000000	SUREMENTS IN			
All Measurements Can Be Taken Standing or Supine	Circ.	M/L*	•	A/P*
Axilla				
Xyphoid				
Waist		<b>/</b>		
ASIS				
Trochanter				
*M/L & A/P measurements take	en with a M/L mx sti	ck (not a tape	measur	e)
Linear mx:	Supin	e		Standing
Axilla to Waist			Total	Finished Length
Waist to Gluteal Fold			10000	nding Position a to Gluteal Fold
See Illustrations of www.cbb.org				A CONTRACTOR OF THE CONTRACTOR

#### M/L Waist

Same position as circumference measurement Do not compress tongue, Light touch is correct



NO	TE: Please send meas	urement forms and	x-rays only.	Trace	r Cad Technology
precludes the necessity for 3-dimensional body casts.					asts.
	MEA	SUREMENTS IN	INCHES O	NLY	
	I Measurements Can Be Taken anding or Supine	Circ.	M/L*		A/P*
Axilla	1				
Xyph	oid				
Wais	t				
ASIS					
Trocl	hanter		<b>/</b>		
*M/L 8	& A/P measurements tak	en with a M/L mx sti	ck (not a tape	measur	e)
Linea	ar mx:	Supine	9		Standing
	Axilla to Waist			Total	Finished Length
Wai	st to Gluteal Fold			25/1/10	nding Position a to Gluteal Fold
S	ee Illustrations www.cbb.org				

#### M/L Trochanter

Same position as circumference measurement
Do not compress tongue, Light touch is correct



	NOTE: Please send meas precludes to	urement forms and he necessity for 3-c			Street State Charles State Control State Con
MEASUREMENTS IN INCHES ONLY					
1,500	All Measurements  Can Be Taken  Standing or Supine	Circ.	M/L*	i	A/P*
	Axilla		3		
	Xyphoid		76 26		
	Waist		20		
	ASIS				
	Trochanter				
-	*M/L & A/P measurements tak	en with a M/L mx sti	ck (not a tape	measur	e)
	Linear mx:	Supine	e		Standing
	Axilla to Waist	<b>/</b>	•	Total	Finished Length
	Waist to Gluteal Fold				nding Position a to Gluteal Fold
	See Illustrations	under "Ordei	ring Info	Tab"	on Website
	www.cbb.org	or www.orig	inalbend	ingbı	ace.com

#### **Axilla to Waist**

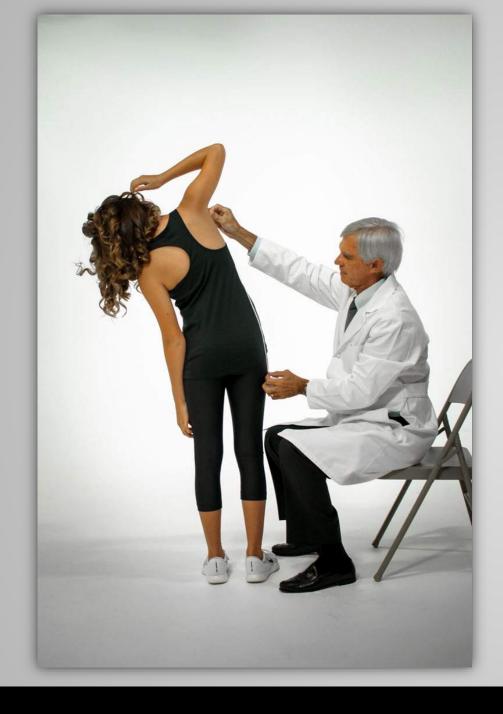
This measurement is taken in the bent position



NOTE: Please send measurement forms and x-rays only. Tracer Cad Technolog precludes the necessity for 3-dimensional body casts.  MEASUREMENTS IN INCHES ONLY  All Measurements Can Be Taken Standing or Supine  Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position Axilla to Gluteal Fold  Bending Position Axilla to Gluteal Fold	100000000000000000000000000000000000000				
MEASUREMENTS IN INCHES ONLY  All Measurements Can Be Taken Standing or Supine  Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position					
All Measurements Can Be Taken Standing or Supine  Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Waist to Gluteal Fold  Bending Position	precludes the necessity for 3-dimensional body casts.				
Can Be Taken Standing or Supine  Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position	MEA	SUREMENTS IN	INCHES O	NLY	
Standing or Supine  Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position	All Measurements				
Axilla  Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx: Supine Standing  Axilla to Waist  Waist to Gluteal Fold  Bending Position	Can Be Taken	Circ.	M/L*	Ē.	A/P*
Xyphoid  Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position	Standing or Supine				
Waist  ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Bending Position	Axilla				
ASIS  Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx:  Supine  Standing  Total Finished Length  Waist to Gluteal Fold  Bending Position	Xyphoid				
Trochanter  *M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx: Supine Standing  Axilla to Waist  Waist to Gluteal Fold  Bending Position	Waist				
*M/L & A/P measurements taken with a M/L mx stick (not a tape measure)  Linear mx: Supine Standing  Axilla to Waist  Waist to Gluteal Fold  Bending Position	ASIS			y.	
Linear mx:  Supine  Standing  Total Finished Length  Bending Position	Trochanter			Î	
Axilla to Waist  Waist to Gluteal Fold  Bending Position	*M/L & A/P measurements tak	en with a M/L mx stic	ck (not a tape	measure)	
Axilla to Waist  Waist to Gluteal Fold  Bending Position	Linear mx:	Supine	e	S	Standing
I Walst to diuteal rolu I	Axilla to Waist			Total Fin	ished Length
	Waist to Gluteal Fold	<b>/</b>	,	107.161	
See Illustrations under "Ordering Info Tab"on Website	See Illustrations	under "Order	ring Info	Tab"on	Website
www.cbb.org or www.originalbendingbrace.com	310+205+2				

#### Waist to Gluteal Fold

This measurement is **NOT** taken in the bent position



NOTE: Please send measure precludes the	urement forms and		Control of the Contro		
MEA	MEASUREMENTS IN INCHES ONLY				
All Measurements  Can Be Taken  Standing or Supine	Circ.	M/L*	A/P*		
Axilla					
Xyphoid					
Waist					
ASIS					
Trochanter					
*M/L & A/P measurements tak	en with a M/L mx stic	ck (not a tape	measure)		
Linear mx:	Supine	9	Standing		
Axilla to Waist			Total Finished Length		
Waist to Gluteal Fold			Bending Position Axilla to Gluteal Fold		
See Illustrations www.cbb.org					

Total Finished Length (Axilla to Gluteal Fold)

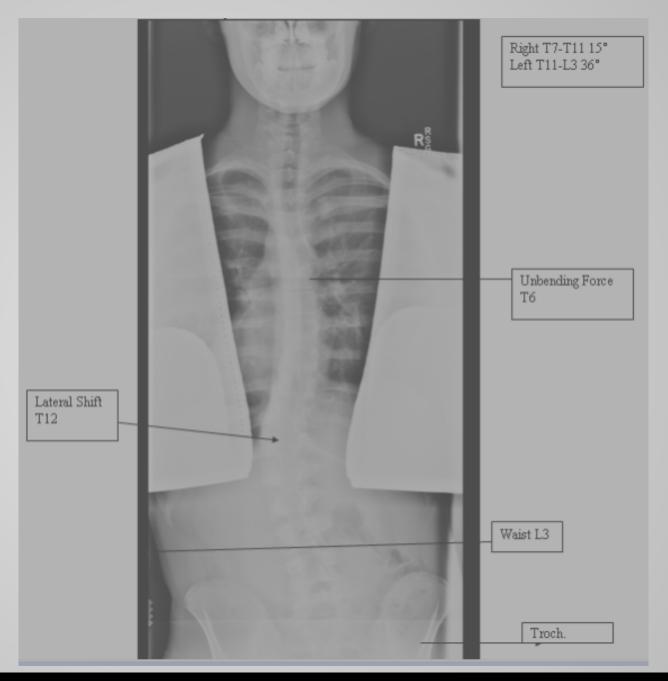
This measurement is taken in the bent position

### X-ray Blueprint

Provide Digital X-ray of patient in supine position

Identify curve pattern
Locate Apex(s)
lateral shift force
stabilizing force
unbending force

This will ensure good communication for production for your brace for your patient



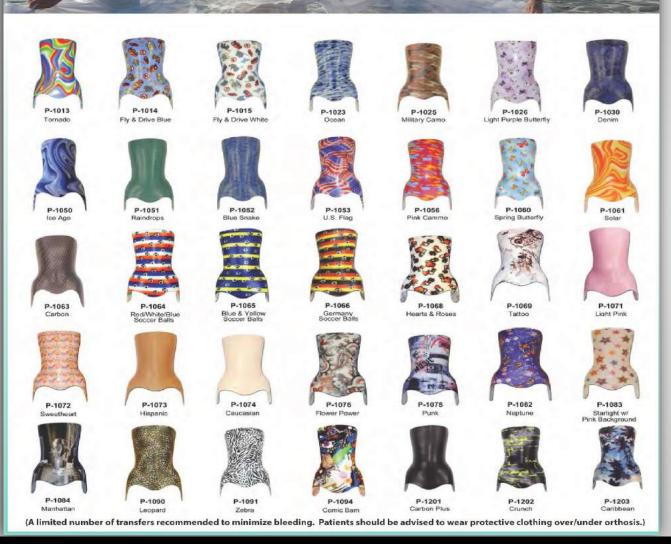
	COBB ANGLES:
Select Type Of Treatment	
	Thoracic
CBB-1 - Double Lumbar Primary	Lumbar
☐ CBB-2 - Double Thoracic Primary	Lumbar
☐ Dynamic Lumbar Pad	LORDOSIS:
☐ CBB-3 - Single Thoriacic	Supine mx:
☐ CBB-4 - Single Thorocolumbar	In brace: □10° □20°
☐ CBB-5 - Double Thoracic	☐ Other:°
Bend Patient to:	□ Right □ Left

### Classification/Treatment Type



CURVE PATTERNS		
Туре I	Lumbar Primary Curve	S-shaped curve in which both thoracic and lumbar curves cross midline. Lumbar curve is larger than the thoracic curve on standing film.
Type II	Thoracic Primary Curve	S-shaped curve in which thoracic and lumbar curve cross midline. Thoracic curve is larger than lumbar curve.
Type III	Single Thoracic Curve	Thoracic curve in which the lumbar curve does not cross midline (also called overhang.)
Type IV	Single Thoracolumbar/ Lumbar Curve	Long thoracic curve in which L5 is centered over sacrum but L4 fits into long thoracic curve.
Type V	Double Thoracic	Double thoracic curve with T1 tilted into concavity of upper curve. Upper curve structural onside-bending.

# Friddle's Coloring Paper For Modified Polyethylene Bending Braces



#### Color/Transfer Selection

Brace Design Options (Check One)		
□ CBB Modified Polyethylene		
☐ Copolymer available on request (not recommended)		
☐ CBB Lite 1/4" volara soft inside, MPE inner shell, 1/8" volara firm outside		
Friddles Color Choices (Check one)		
☐ White ☐ Pink ☐ Blue ☐ Friddles Transfer		
Transfer Pattern #: Pattern Name:		
NOTE: Transfer patterns have potential to bleed.		
For MPE - Please choose Friddles recommended transfer less likely to bleed. Color charts available on CBB.org and Friddles.comor via email upon request.		
Advise patients to wear protective clothing both under and over the		
orthosis for the first week of wear.		





# How to Properly Measure for the Charleston Bending Brace

Designed by C. Ralph Hooper, Jr., CPO



## CHARLESTON BENDING BRACE