4016 CARBON Braid

Fabrication Layup Suggestions

Light, Durable & Strong

The concept for layups includes tying off and reflecting layers, not cutting to length if possible.
We believe layers should be equalized for best results. (Each line represents 1 layer)
⚠NOTE: It is best to reduce tying the braid or stockinette into tight large knots as this diminishes the ability of the resin to saturate adequately.

BK layup – Single shot (Up to 100Kg)

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- Carbon Braid (tie to socket adapter and reflect remainder 33% of length)
- Carbon Unidirectional Tape 0-90 (Anterior to Posterior, Medial to Lateral) and brim circumference
- (may need to split tape to veer around braid/stockinette) (See **Fig. 1**)
- (Note: Width of tape should be minimum 25 to 37mm.)
- Nyglass
- Carbon Braid (full length)
- Perlon or Nylon hose

BK Layup – 2 stage lamination (Up to 100Kg)

1st lamination: (Will end up with 2 full length Carbon braid layup)

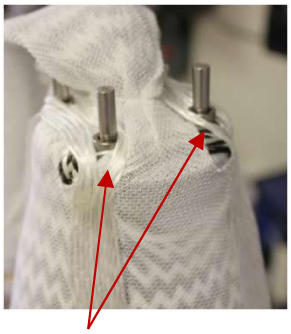
- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed for sanding for bony relief)
- Carbon Braid (full length, tie to reflect remainder later)
- Carbon Unidirectional Tape 0-90 (Anterior to Posterior, Medial to Lateral) and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect down 2nd layer of Carbon Braid (full length)
- 2 scuffing layer for finish lamination
- (Note: Width of tape should be minimum 25 to 37mm.)

2nd lamination:

- Carbon Braid (50% of length - tie to reflect remainder later)
- Reflect Carbon Braid
- Nylon Hose (or outer finish material/design)

These recipes are recommendations. This will help familiarize you with the characteristics of Carbon. The concept of equalized layers should be utilized when altering layup dependent on patient characteristics (weight/activity)

P/N	Description
4016-3.10	CARBON BRAID, 3 in x 10 ft
4016-3.50	CARBON BRAID, 3 in x 50 ft
4016-4.10	CARBON BRAID, 4 in x 10 ft
4016-4.50	CARBON BRAID, 4 in x 50 ft
4016-5.10	CARBON BRAID, 5 in x 10 ft
4016-5.50	CARBON BRAID, 5 in x 50 ft
4016-6.10	CARBON BRAID, 6 in x 10 ft
4016-6.50	CARBON BRAID, 6 in x 50 ft
4016-8.10	CARBON BRAID, 8 in x 10 ft
4016-8.50	CARBON BRAID, 8 in x 50 ft
4016-10.10	CARBON BRAID, 10 in x 10 ft
4016-10.50	CARBON BRAID, 10 in x 50 ft



(**Fig 1 -**Example of split tape to veer around braid or studs)

(**Fig 2:** example of loose tie off of braid to facilitate full fabric saturation)

CE Conformity
This product meets the requirements Council EU 2017/1745 (MDR).
for medical products. This product has been classified as a class I product according to the classification criteria outlined in appendix IX of the guidelines. Please keep this manual in safe place for future use.

Useful Life
Service life of the product is covered by the warranty period.

MD

Disposal
The device and its packaging must be disposed of in accordance with respective national/local environmental regulations.

4016 Carbon Braid

Light, Durable & Strong

Fabrication Layup Suggestions

The concept for layups includes tying off and reflecting layers, not cutting to length if possible.
We believe layers should be equalized for best results. (Each line represents 1 layer)
⚠NOTE: It is best to reduce tying the braid or stockinette into tight large knots as this diminishes the ability of the resin to saturate adequately.

AK layup – Single shot (Up to 100Kg)

- Perlon (Sew end) (Can put Dacron Felt first layer if needed)
- Carbon Braid (tie off to socket adapter to be reflected down later)
- Carbon Unidirectional Tape 0-90 (Anterior to Posterior, Medial to Lateral) and brim circumference (may need to split tape to veer around braid / stockinette)
- Nyglass
- Reflect Carbon Braid (100% of length)
- Nyglass (sew up end and layup over socket adapter/or tie in if adapter needs to be tied in)
- Carbon Braid (sew up end and layup over socket adapter/or tie in if adapter needs to be tied in)
- Nylon hose
- (Note: Width of tape should be minimum 25 to 37mm.)

AK Layup – 2 stage lamination (Up to 100Kg)

1st lamination: (Will end up with 2 full length Carbon braid layup)

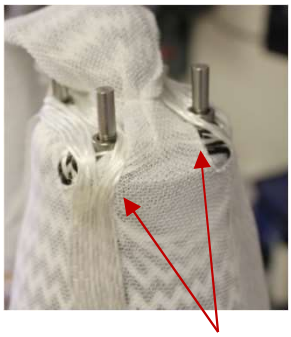
- Perlon, or flexastretch (Can put Dacron Felt first layer if needed)
- Carbon Braid (tie to reflect remainder later)
- Carbon Unidirectional Tape 0-90 (Anterior to Posterior, Medial to Lateral) and brim circumference (may need to split tape to veer around braid / stockinette)
- Reflect Carbon Braid (100% of length)
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination: (Final lamination total layup 3 full, and ½ length for both stages)

- Carbon Braid (full length. Tie into adapter to reflect down later)
- Nyglass
- Carbon Braid (full length)
- Nylon Hose

Environment:

Store at room temperature, and avoid extremely hot, cold, or moist storage environments Storage Temperature Range: between temperatures of -20˚C to 80˚C [-4˚F and 176˚F]
Do not store in wet or very hot environment.



(**Fig 1 -**Example of split tape to veer around braid or studs)

(**Fig 2:** example of loose tie off of braid to facilitate full fabric saturation)

These recipes are recommendations. This will help familiarize you with the characteristics of Carbon . The concept of equalized layers should be utilized when altering layup dependent on patient characteristics (weight/activity)

4016 IFU REV E (5-1-25)

ST&G USA CORPORATION
stngco.com

CORPORATE OFFICE
2691 Saturn Street | Brea, CA 92821
Tel: (714) 524-0663 | Fax: (714) 364-8113

ST&G CORPORATION
Rm. 911 43, Yangsan-ro
Yeongdeungpo-gu, Seoul, Korea

CE EC REP
MDSS GmbH
Schiffgraben 41 | 30175 Hannover, Germany