

Fabrication Layup for NSP and Paralex Material

BK layup – Single shot (Up to 220 pounds) for puck lock type lamination

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder)
- Nyglass (tie off)
- Reflect NSP braid down – at least 1/3 of socket length
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Nyglass
- NSP Braid
- Perlon or Nylon hose

BK Layup – 2 stage lamination (Up to 220 pounds)

1st lamination: (Will end up with 1 full and ¼ length NSP braid layup)

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Uni Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect down NSP Braid (25% of length)
- Reflect down Nyglass (scuffing layer for finish lamination)
- Nyglass (scuffing layer for finish lamination – if needed)
- **2nd lamination: (Final lamination total layup 2 full, ½ and ¼ length**
- **NSP braid layup inclusive of 1st lamination)**
- NSP Braid (50% of length - tie to reflect remainder later)
- Nyglass
- Reflect NSP Braid
- Nylon Hose (or outer finish material/design)

BK layup – Single shot (Up to 375 pounds) For Puck Lock type lamination

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to socket adapter to reflect remainder after nyglass)
- Nyglass (tie to socket adapter)
- Reflect NSP Braid (25% of length)
- Nyglass
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Nyglass
- NSP Braid (50% of length tie to socket adapter to reflect down)
- Reflect NSP Braid
- Perlon or Nylon hose

BK Layup – 2 stage lamination (Up to 375 pounds)

1st lamination:

- Perlon, or flexastretch (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- Reflect NSP Braid (Single layer 50% of length)
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination:

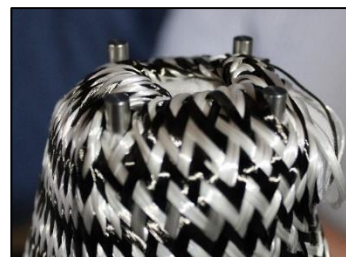
- NSP Braid (tie to reflect remainder later)
- Nyglass
- NSP Braid
- Nylon Hose



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)



(Above: Example of split tape to veer around braid/features)



(Above: Example of loose tie off of braid to facilitate full fabric saturation)

NOTE: These are layup suggestions, once you get familiar with the material, you can change up to your needs. For any socket connectors, be sure to have at least 2 layers of braid to prevent push through, and tie in at least 2 layers to connector.



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Fabrication Layup for NSP and Paralex Material

AK layup – Single shot (Up to 220 pounds) For Puck Lock type lamination

- Perlon (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie off to be reflected down later)
- Nyglass (tie off to socket adapter to be reflected down later)
- NSP Tape for struts and brim
- Reflect Nyglass
- Reflect NSP Braid (50% of length)
- NSP Braid (tie to socket adapter and include enough to reflect 1/3 of length of socket)
- Nyglass (tie to socket adapter)
- Reflect the 1/3 length of NSP Braid.
- Nylon hose

AK Layup – 2 stage lamination (Up to 220 pounds)

1st lamination:

- Perlon, or flexastretch (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Unidirectional Tape 0-90 and brim circumference
- Reflect Nyglass
- reflect NSP Braid (30% of length)
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination:

- NSP Braid (50% of socket length tie to reflect down later)
- Nyglass
- NSP Braid
- Nylon Hose

AK layup – Single shot (Up to 375 pounds) For Puck Lock type lamination

- Perlon (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tied off to be reflected back down later)
- Nyglass (tie to reflect remainder)
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- NSP Braid (80% of length, tie to reflect remainder)
- Nyglass
- Reflect NSP Braid
- Nylon hose

AK Layup – 2 stage lamination (Up to 375 pounds)

1st lamination:

- Perlon, or flexastretch (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Unidirectional Tape 0-90 and brim circumference (if needed) (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- Reflect NSP Braid (30% of length)
- NSP Braid
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination:

- NSP Braid (75% of socket length tie to reflect down)
- Nyglass (tie to reflect remainder)
- NSP Braid (50% of socket length Single layer)
- Reflect NSP Braid
- Nylon Hose



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(Above: Example of split tape to veer around braid/features)



(Above: Example of loose tie off of braid to facilitate full fabric saturation)

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