

# SEWN POUCH - APPI Maintenance Workshop

**Module:** Preparation for canopy repair

**Objective:** introduction to sewing nylon fabrics, multi-fold (3), curved seams and delicate junction finishes.

## Reference video:

<https://drive.google.com/file/d/1ufpxtK6a7b1GfFt2zomfv9gTVLh-U8et/view?usp=sharing>

## REQUIRED MATERIALS

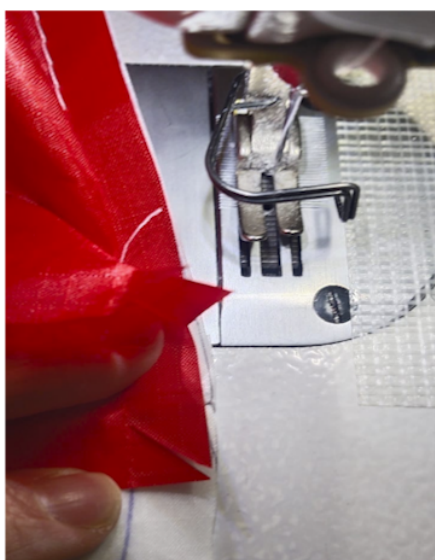
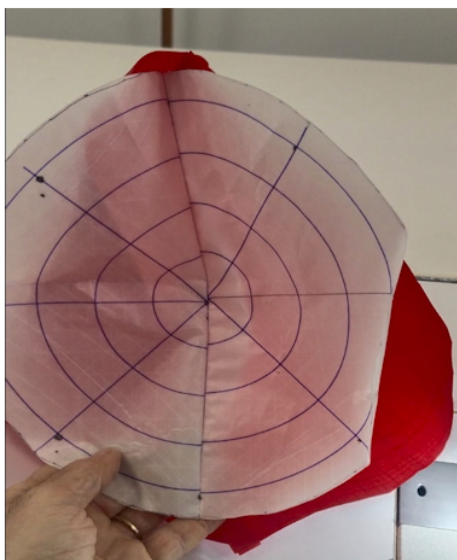
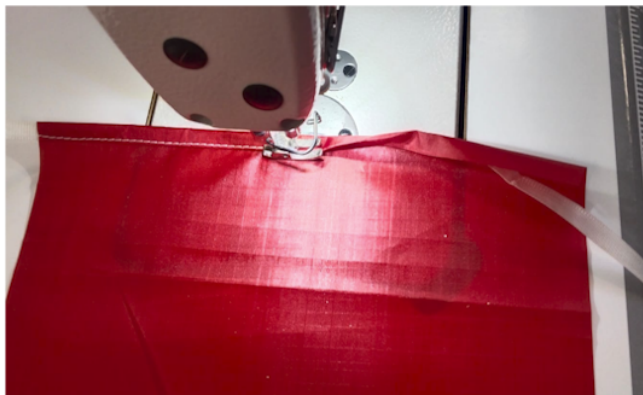
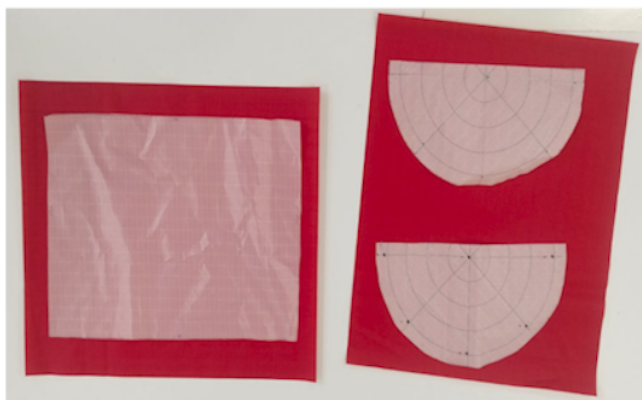
- **Fabric:** preferably Nylon (possibility to use paraglider fabric recovered from an old model)
- **Sewing machine** with polyester thread preferably
- **Sewing scissors**
- **Ruler** and **compass** or circular template
- **Pencil** or fabric marker
- **Pins** or sewing clips

## TARGET FINISHED DIMENSIONS

- **Pouch diameter:** 250 mm
- **Total height:** 300 mm
- **Interior partition height:** 200 mm

## QUALITY OBJECTIVE

The goal is to achieve the cleanest possible assemblies. Don't hesitate to disassemble and reassemble if necessary to achieve the finished dimensions and desired assembly quality.



This simplified version allows you to familiarize yourself with basic techniques before tackling the complete version.

## 1. CUTTING PIECES (2 pieces)

### ● BASE (1 complete disc)

**Dimension:** 280 mm

**Marking:** Draw 2 concentric circles (250 mm and 280 mm) then cut on the outer circle.

### ● SIDE (1 rectangle)

**Height:** 335 mm

**Width:** 815 mm

## 2. ASSEMBLY - ORDER OF OPERATIONS

### Step 1

**Hem the top part of the side**

in two folds (10 mm, seam at 1mm from edge)

### Step 2

**Close the side (vertical seam)**

### Step 3

**Attach the base to the side**

### 🔗 PROGRESSION

Once you master this version, you'll be ready to make the complete version with interior partition!

**1. CUTTING PIECES (5 pieces)**

Mark and cut the following pieces according to the indicated dimensions:

**● BASE (2 half-discs)**

**Diameter:** 280 mm

**● SIDES (2 half-sides)**

**Dimensions:** H 335 mm × W 423 mm

**● INTERIOR PARTITION (1 piece)**

**Dimensions:** H 235 mm × W 280 mm

**2. ASSEMBLY - ORDER OF OPERATIONS****Step 1****Make the hems at the top**

Of the 2 sides and the interior partition in two folds (10 mm, seam at 1mm from edge)

**Step 2****Assemble the sides with the interior partition****Step 3****Attach the base of the 2 half-bases to the interior partition****Step 4****Assemble the half-bases to the bottom of the pouch****🔍 QUALITY CONTROL**

After each step, check:

- Seam alignment
- Stitch regularity
- Absence of wrinkles
- Finished dimensions

## TECHNICAL TIPS

### **Marking and cutting**

- First draw the **seam lines** (finished dimensions)
- Then add the **seam allowances** all around
- Cut precisely to facilitate assembly
- Mark assembly marks if necessary

### **Clean assembly**

- Do **dry fitting tests** before sewing definitively
- **Don't hesitate to unpick** if the result is not satisfactory
- Check dimensions after each step

### **Sewing nylon**

- Paraglider fabric is slippery: use pins if necessary
- Adjust thread tension correctly to avoid wrinkles
- Sew at **moderate speed** for better control


### **Final quality control**

#### **Final checks:**

- ✓ Diameter: 250 mm ( $\pm 2$  mm acceptable)
- ✓ Total height: 300 mm ( $\pm 2$  mm acceptable)
- ✓ Partition height: 200 mm ( $\pm 2$  mm acceptable)
- ✓ Regular and strong seams
- ✓ Regular hems
- ✓ No wrinkles or deformations

## RELATIONSHIP WITH CANOPY REPAIR

This exercise allows you to work on essential skills for paraglider repair:

 **Interior seams:** Technique for structural repairs where aesthetics and strength are essential.

 **Respect for dimensions:** Precision necessary to maintain aerodynamic properties.

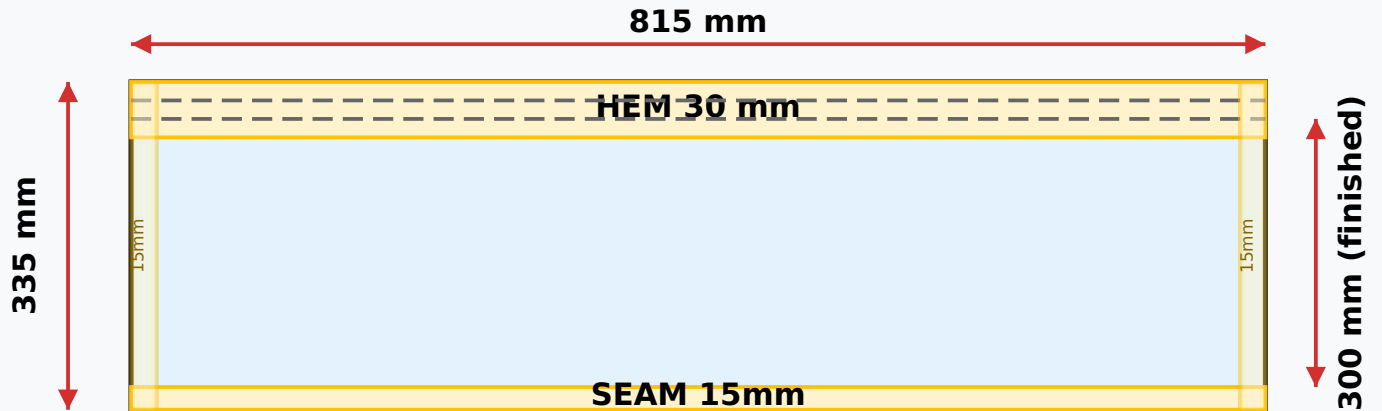
 **Clean assemblies:** Finishing quality essential for safety and durability.

 **Working with slippery material:** Nylon requires specific techniques that you will develop.

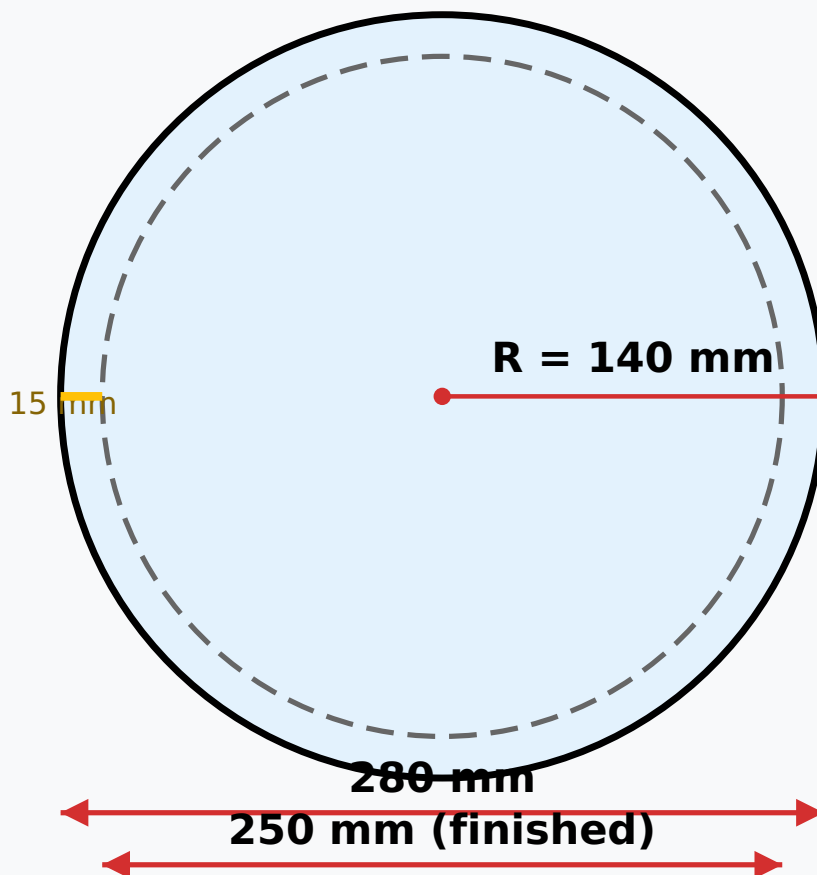
## TECHNICAL DIAGRAMS - PIECES TO CUT

### VERSION WITHOUT INTERIOR PARTITION

#### SIDE (RECTANGLE) × 1



#### BASE (COMPLETE DISC) × 1



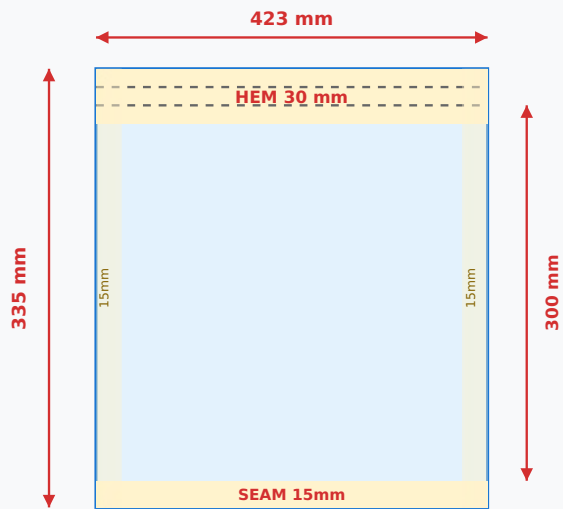
× **CUTTING:** Draw 2 concentric circles (Ø 250 mm and Ø 280 mm). Cut on the outer circle to obtain 1 complete disc.

## VERSION WITH INTERIOR PARTITION

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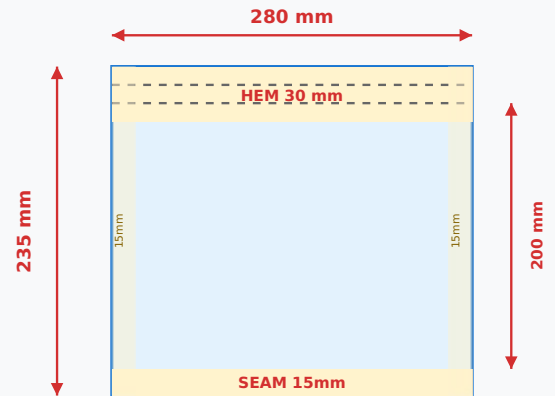
### SIDES

× 2



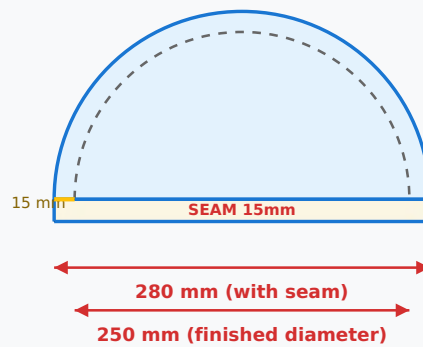
### INTERIOR PARTITION

× 1



### BASE (HALF-DISCS)

× 2



✂ **CUTTING:** Draw a circle of Ø 250 mm then a second of Ø 280 mm. Cut on the outer circle then cut in half to obtain 2 half-discs.