

## Model Build Plan

**Name:** Arun Joshi

**Year:** 2015 (2<sup>nd</sup> Year)

**Concept:** Concept 35 – Thera Band

**Issue/s to be investigated:**

- Position of hinging case
- Where would thera bands attach to

**Risk:**

- Where is it easiest for the user to open the product
- If they are not fix properly they could come lose and break the product

**Category:**

- B
- C

**Description of model:**

This model was a model that explored the way the thera bands would be fixed in the back of the product and also the type of fastening mechanism that would be used.

**Materials Required: material type, size and quantity**

- 1x White A4 paper
- 1x White A4 card
- 1x Black A4 Card
- 5x Marker Pens
- 1x String 500 mm
- 1x Dowel rod 80mm

**Process of model making:**

This model was made to an approximate scale of 1:5, however the actual size of the product was still being developed. First off a net had to be made of the shape shown in the sketches. Using the A4 paper the net was drawn up and test to make sure it produced the correct shape. This was then recreated on the white cardboard. With this template then cut out, the black card board was cut into a strip and stuck into place to represent the closing flaps where the thera bands would come from. 5 different marker pens were the used to colour in the area were LED lights would be positioned. The taps were then stuck together to form the shape of the product. After asking for feedback on the idea and the different types of closing mechanism it could use the conclusion was reached that a touch-to-open system would be best, which is not possible to represent with card, so a simple double sided tape tap was used instead.

**Specialist support?**

None

**Estimated build time:** 1-2 hours

**Required by:** 1 hour 30 mins