Product → (1) Cable Cover

(2) Product 2

(3) Product 3

(4) Product 4

Design → (1) Open ends $15

(2) One end closed $30

(3) Both ends closed $35

Flanges → [Y(default)/N] if No , reduce (say 5 from the design price) 20.0mm each.

Fixing Holes → [Y(default)/N]

Material → (1) Galvabond (for example $10 per meter square for 0.6 mm sheet) PRICING IS DEPENDENT ON MATERIAL & THICKNESS

(2) Zinc Anneal (for example $15 per meter square for 0.6 mm sheet)

(3) Laser Plate (for example $20 per meter square for 0.6 mm sheet)

(4) Stainless Steel (for example $25 per meter square for 0.6 mm sheet)

(5) (Custom) (then we also need, custom price per m2, weight & thickness)

Thickness → (1) 0.6mm WEIGHT 5.00 KG M²

(2) 1.6mm " 12.56 KG M²

(3) 3.0mm " 22.89 KG M²

(4) (custom) (then we also need, custom price per m2) XX KG M²

Dimensions → (1) Fixing Flange [custom value in mm] (not available if Flanges [N]) DEFAULT 20.0mm PER SIDE

(2) Width Internal [custom value in mm]

(3) Depth Internal [custom value in mm]

(4) Overall Length [custom value in mm]

Finishes → (1) None(default)

(2) Galvanising ($1.35 per kg, minimum charge ~~$10~~ 20) (only for Laser plate)

(3) Powder Cote ($15 per square meter, minimum charge $15)

(4) Spray Paint ($15 per square meter, minimum charge $15)

Quantity → (custom value)

The app has to calculate the area AND THE MASS IN KG of the sheet needed to produce the required product (in meter square), along with the dimensions of every piece of the sheet . In this case, a cable cover with open ends can be made with a single piece of steel. But a cable cover with both ends closed will need three pieces. The weight of the product in Kg is also needs to calculated (thus the volume). The

variable needed to do the calculations are:

1) prices of all the material sheets (per m square) of all thicknesses

2) density of all the materials

3) Prices for Finishes

3) Profit margin (default 100%)

4) Labour costs in this case they are determined by designs

5) Labour rate increase (default ~~100~~ 50%) if the product has more area than 2.4 m ~~square~~ IN LENGTH (the turning point)

The app has to produce one quote with the final price, another one without price. It also has to produce a Cutting List that includes the dimensions of the pieces of the sheet needed to make the product.