**Specifications for New Version of Carriage Calculator (CC)**

Our carriage calculator (CC) was previously made for two carriers, DHL and Tuffnells. We have recently changed from Tuffnells to a new company called DX, which has meant changes to our shipping methods and costs. While we previously had postcode groups based on different areas of the UK, we now have postcode groups for each shipping method we offer, and they differ between the two carriers, as do their standing charges. We also now have a surcharge for certain lengths of pipe.

The CC currently works on three inputs from the customers:

1. A postcode – these match up with certain zones in the UK which each have their own standing charge
2. The pipe length of the order – we currently have a dropdown of three options: “<1.25m (or fittings/valves only)”, “1.25 – 5m”, and “6m”
3. The address type – this is a dropdown of two options: “Commercial” and “Residential”; a residential address incurs a surcharge on orders of pipe lengths longer than 1.25m

The CC currently provides two kinds of results for the different shipping methods:

1. Full-Length Options – labelled “Tuffnells Options”; this column is where the residential surcharge is applied if pipe lengths are above 1.25m
2. Cut-Pipe Options – labelled “DHL Options”; this column contains a note that pipe must be cut to a certain length if they are above 1.25m

The carriage calculator as it currently operates can be found here:

<http://sandbox-plasticpipeshop-co-uk.3dcartstores.com/Carriage-Calculator_ep_97-1.html>.

Due to the number of changes from the previous CC to the new version, it may be best to start over instead of amending what is already there; but that decision will be left to you.

The new CC will operate as follows:

1. There will be three inputs:
   1. A textbox for the postcode
   2. A dropdown for the pipe length, options including:
      1. ≤1.25m (or fittings/valves only)
      2. 2.5m
      3. 3m – 6m
   3. A dropdown for the address type, options including:
      1. Commercial
      2. Residential
2. There will be a column in the CC for DHL shipping costs and one for DX shipping costs, and four rows for the four shipping methods (3-5 day; 2-3 day; next day; A.M next day)
3. The four shipping methods will have a list of available postcodes for both carriers – i.e. there will be **7 total** lists of postcodes across both carriers (DX 3-5 working day is not an available method and so does not have a list of postcodes)
4. When a postcode is entered, it could find a match in one shipping method for one carrier, or multiple shipping methods for both carriers
5. For all methods the postcode matches, the CC then needs to consider if there are any surcharges (pipe length or residential address) that require adding to the cost
6. Once all the calculations are done, the CC will display the shipping cost(s) in the relevant cell(s) in the table (for the methods that did not match the postcode, “N/A” should be displayed)

An Excel workbook will be provided to offer an example of how the CC should look, both the DHL and DX shipping costs, surcharges, and postcodes, and also narrated examples to further explain how the process works.

These requirements outlined for the previous CC versions still stand:

* The webpage must be able to be viewed on all browsers
* The page must be able to sit within the current template currently used by Plastic Pipe Shop
* The page must be responsive
* Staff at Plastic Pipe Shop must be able to easily adjust the carriage rates (Shipping Method charges and Surcharges) to future proof the work against future price rises. This could be through a CSV file FTP’d to our server or another such method.
* Staff at Plastic Pipe Shop must be able to change the visibility of the “Service supplements”. This could be through a CSV file FTP’d to our server or another such method.
* The postcode is checked against the table by removing any spaces and then removing the last three characters. For example:
  + “FK8 3PZ” becomes “FK8”
  + “ML23 4PP” becomes “ML23”
  + “W1A 4WW” becomes “W1A”
  + “FK83PZ” becomes “FK8”
* The postcode match, once trimmed down, must be a full and perfect match to the values in the postcode table.