INTRODUCTION

The Product Price By Size module is a powerful solution for Prestashop store owners who will be selling products which are cut / tailored to size for customers. Customers should be able to enter the dimensions they require on the product page and these should be used to calculate a dynamic price.

For example, store owners may be selling DIY products such glass sheets, wood skirting, wood pieces or stationery such as sign-age which would be priced according to area using a formula such as £1.00 per M2.

So in short, if you need dynamic prices for your product which are calculated based on measurements or values the customer enters then the Product Price By Size module is an ideal solution.
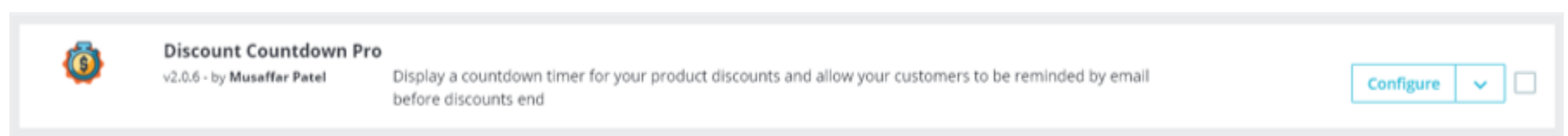
INSTALLATION

The installation procedure is very much similar to most other Prestashop modules. No core changes required therefore installation is straight forward, be sure to follow the instructions below to ensure a successful installation.

1. Upload the module folder to your stores `{root}/modules folder`

2. Once uploaded, login to your Prestashop Back Office and head over to the **Modules** section

3. Search for the module and click **Install**

4. After a successful installation, the module configuration screen is presented to you. More details on this in the next section.

CONFIGURATION

After installing the module, we're ready to start configuring the global configuration options. Locate the module in the modules list and click the configure link. You will be presented with 3 tabs, namely **Dimensions**, **Units** and **Translations.**

The main configuration screen is divided into 7 panels. During the installation of the module, sample data is installed for all 7 panels to help get you started quicker, however you can customize each of these, adding, editing and deleting to suit the needs of your store. We'll take a look at each of these on the next page.

Dimensions

This is a list of fields which will be displayed on your front end product page, into which the customer can enter a numeric value or select from a predefined range of values. The values entered into these dimension fields will be used to calculate a dynamic price for your product.
By Default the module creates height, width and depth. You can create new dimensions by completing the form presented on the right hand side. You can also assign an image to each dimension. This will be displayed as a popup image to provide more information regarding the dimension, such as a diagram showing how to locate the measurements for the dimension.

If your store is a multi-language store then don't forget to enter all translations for the dimension name (by using the language selector next to the dimension name field).

Units

Units are displayed next to the dimension fields on the product page and in the customer cart to denote in which metric unit you are selling this product in and cutting to size, for example, meters, centimetres, inches, ounces, kg … you get the idea.

The module comes with a host of predefined units including their associated symbols. You can add or edit as you need within this panel.

Area Price Suffixes

When displaying the area price on the product page, these will be displayed next to the price. For example **per m2.** Define your list of various area price suffixes here which you can then pick from when assigning to a product later.

Translations

All other text displayed by the module is listed conveniently in the Translations list, you can edit and enter different texts for different languages or modify existing texts.

Equation Templates

Displays a list of equation templates you have created for reuse across multiple products. Equation templates are created and edited under the product edit sections of the back office. We'll take a look at this later in this guide.
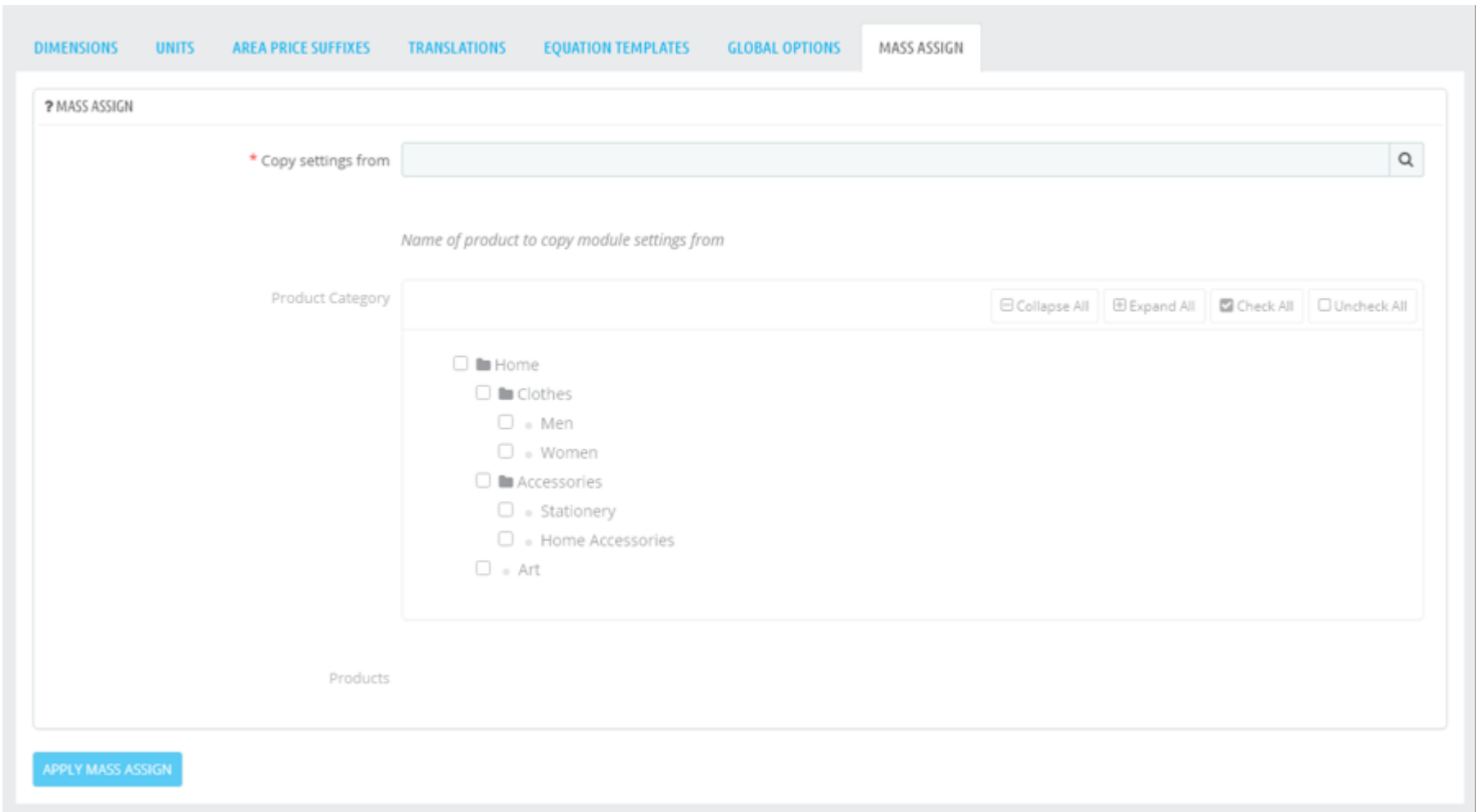
Global Options

You'll see global options related to the module here, the options are:

Display Total Area
Enable this option if you would like the total area entered by the customer to be displayed on the product page.

Mass Assign

The Mass Assign tab allows you to copy settings from one product to multiple products and / or categories across your store. To use the feature start typing in the name in the product search field and select the product you wish to copy settings from.

After selecting the product you wish to copy settings from, select the category or categories you wish to copy the module settings to. If you select a single category, you can select individual products in that category. If you select multiple categories then the module settings will be copied across to all products in those selected categories.

Setting up your products

Once the general module configuration has been saved, we're ready to move on and set up a product(s) to take advantage of dynamic product prices.

Firstly, choose a product to edit in the back office and down the left hand side open the tab Product Price By Size as this is where all the magic happens.

To help you set up dynamic pricing, it may help if you go through and answer the questions in the list below before you start setting up your product:

- Which dimensions should the customer enter and should they be "free form" values or do you need the customer select from a list of predefined values?
- What is the dynamic price of my product? for example £1.00 per m2
- Does the customer enter dimensions in a unit different to the unit I price the product in / cut to size in?
- How will be my dynamic price be calculated? It may help to write down the formula
- Do I need to restrict the values the customer can enter into the dimension fields?
- If my product has attributes, how will they affect the price?

With the above all clarified we're in a good place to start setting up dynamic pricing for your product.

METHODS OF CALCULATING A DYNAMIC PRICE

The module uses 3 methods to calculate a dynamic price, let me discuss each of these with you:

Linear Calculation
This is the default method the module will use to calculate a dynamic price for your product. The formula simply multiples all the dimensions entered by the customer with the price of the product. For example, if you have chosen to display Height and Width dimensions on your product page, then the price will be calculated as follows:

```
dynamic price = Length x Width x Product Price
```

Area ranges based pricing
This method allows for a more sophisticated approach to calculating a dynamic price. The method allows you to create ranges of areas and influence the price based on these area ranges. I'll explore this method in more detail later in this article.

Custom Calculations
This final approach is the most powerful of all and gives you greater control of how your dynamic prices are calculated by allowing you to define a custom formula. What's more, you can even set up different formulas for different attributes. I'll talk more about this too later on.
For now lets take a look at the general options in the product price by size tab.

GENERAL OPTIONS

The first panel, provides some general options related to the product as show below:

Enabled for this product	✔
Use attribute price in area calculation?	✕
Charge Minimum price (Excl. Tax):	0.00
	or enforce minimum area:
	0.00
Apply set up fee	0.00
Main unit for price (price per x)	meter

Unit Conversions

These settings allow the customer to enter their measurements in different units of measurement

Convert Units entered by customer?	✕
Conversion formula?	Divide by
	100.00

Let's take a look at the options.

Enabled?

This option simply determines if this product will use a dynamic price or not. Setting it to no will cause the product to behave as any other standard product in Prestashop, i.e the module will not influence the product in any way.

Use Attribute in calculation

This option will affect Linear calculations and area based calculations. When set to no, the attribute price is simply added to the end of price calculation as follows:

```
dynamic price = (Length x Height x Product Price) + Attribute Price Impact
```

Switching this option to Yes, changes it so that the formula becomes:

```
dynamic price = Length x Height x (Product Price + Attribute Price Impact)
```

As you can see above, if set to yes the attribute price impact is included in area price.

Charge Minimum Price

If your product must have a minimum price regardless of the area ordered by the customer then you can use this option to set the minimum price. Therefore if the dynamic price calculation ever falls below the min price, the module will charge the minimum price you have set for this product.

Leave this option empty or enter 0 if a minimum price should not be applied.

Main Unit for price

The default unit the price calculation is based on (per meter, per ft etc)

Charge setup Fee

Some products may have a additional setup fee in addition to the dynamic price. Enter any setup fees into this field and it will be added to the total product price.

Convert Units entered by the customer?

If customers will be entering the dimensions to order in a unit which is different to that which you price your product in, then enable this option and tell the module how to do the conversion.

For example, your product is priced in m2 (£1.00 / m2) but you would like your customers to enter Length and Width in cm, in this case we need to tell the module to convert from cm to m, and to do this set the Conversion formula to divide by 100. Now whenever the module calculates the price it will divide whatever the customer enters by 100, in effect converting from cm to m.

You can change these to suit your needs to convert to and from other units such as feet, inches etc.

Allow customer to switch between units

While the customer will by default enter their dimensions in the default unit specified, you can also allow the customer to switch between different units of measurements when they enter their dimensions.   Simply select which units the customer can select from the list of units. Below is a screen shot of this:

ASSIGNING FIELDS TO PRODUCTS

Each product can display a different set of dimension fields on the front end product page for a customer to enter the size / area of their order. Under this section you can select which dimension fields will appear, along with additional options.

When adding a dimension field to a product, you have the ability to define the following properties for each field individually:

Dimension
Select a dimension from the list of dimensions you set up in the main module configuration, for example : Width

Unit
Choose the unit to be displayed next the fields on the product page, cart and order emails etc

Min
Set any value above zero here to ensure the customer enters a value in the field above this minimum value

Max
Set any value above zero here to ensure the customer enters a value in the field below this maximum value

Default Value
The numeric value displayed in the dimension field by default

Input Type
Choose whether you would like to display a text box or a drop-down select for the customer to enter the dimensions into. If you choose a drop-down select field then the customer will select a value from a list of possible values. You can define the values by clicking the *Edit Drop Down Values* button.

When adding a field to a product you'll need to enter the properties as described in the list above. The list of dimension fields you assign will appear in this section as a list, you can use the controls in the list to **edit**, **delete** or **rearrange** the dimension fields at any time.

AREA BASED PRICES

The Area Based prices as discussed earlier is the last of the methods for calculating a dynamic price for products. It allows you to setup different area prices based on the total area range order by the customer.

Let me demonstrate this with an example.

Let us assume you are selling PVC sheets which are cut to size for the customer. The Customer can enter the length and width they require on the product page.

The cost of your PVC sheet is £10.00 / m2. However you want to encourage customers to buy more so you would like to drop the price down to £9.00 / m2 if they order more than 50 m2.

In this section you can create such pricing structures. Enter the range of areas such as:
0 to 50
51 to 100
etc..

and set the price impact for each range. When setting the Price Impact you can use the following 3 operations.

Increase By
This will increase the base product price by the amount you specify. So if your base price is set 10.00€, you can choose to increase it by X amount for a specific area range. The final price will then be used in the dynamic price calculation.

Decrease By
A identical to the above but instead of increasing the base product price, it will decrease instead. This method is useful if you want to make the product cheaper the more the customer orders.

Fixed Price

The price you enter will be the final price used for the areas that fall within the range. No calculations are performed.

Custom Calculations

A powerful feature of the Product Price By Size module is to allow you to define a custom formula to calculate your product price. Furthermore you can even create individual custom formulas for each of your different attributes. This feature allows you to define extremely flexible dynamic price calculations.

To use custom calculations the first thing you will need to do is enable the option as shown in the screen shot, after which you will want to create your calculation. Click the Edit button in the custom calculation panel to start editing the custom calculation. You should see a pop up resembling a calculator appear; use this tool to create your calculation. You will notice the calculator allows you to also insert variables such as various dimensions, product price, attribute price, base price etc.

On the right hand side select **All Combinations** before creating your equations, or if you wish to create combination specific equations then select the specific combination.

Once done *save* your calculation and the pop up should close.

If you need to create different formulas for calculating a dynamic price for each attribute, you can do so by clicking the *edit* or pencil icon next to the attribute and the calculator for that specific attribute will appear.

Weight Calculations

In the same manner that the module allows you to calculate a dynamic price based on a custom equation, the module also allows you to define a custom equation for calculating a dynamic weight for your product for the shipping.

This is particularly useful if your store charges shipping prices based on weight. You must first make sure you have set up the shipping charges for different weight ranges in the *Prestashop carrier configuration*. Now, when a customer purchases a product which uses the module and custom weight calculations, the weight for the product will be determined by the equation you define and will be used to determine the shipping cost based on your carrier configuration.

The equation editor works in the same fashion as the equation editor for the custom calculations. You can either define one dynamic weight equation for all the combinations in the product, or set up different equations for different attribute combinations.

STOCK MANAGEMENT

The stock management feature in the module allows you to manage stock for your products based on area rather than discreet quantities. If the customer attempts to purchase a total area which is greater than the available area in stock then the module will prevent the customer from purchasing the product.

You can find the stock management options under the stock management tab and the options should be similar to that below:


Simply enable stock management by toggling the stock management switch and enter the area available for each product combination and then save. If your product does not contain combinations then a single stock quantity field is displayed instead for you to populate.

FRONT END SETUP

After enabling the module for a product, it will automatically displayed on the product page and is ready to use, no further configuration should be required at this point.

PRODUCT PRICE BY SIZE

For Prestashop by Musaffar Patel

Contact and Support

Should you run into any problems regarding the installation or usage of the module please feel free to contact me via Prestashop Addons Support. I would also welcome any feedback on the module, your feedback will help improve the module in the future.