

DYNAMIC PRODUCT PRICE CALCULATOR

best4mage

1. General information about DPPC

DPPC stands for Dynamic Product Price Calculator. We have developed this extension to set product price based on the selected shape and measures customer enters.

For example, Someone wants to buy a glass in square shape with their custom size. We have provided many options in Magento admin to set this up.

2. Installation of the extension

Please make sure you've downloaded extension package compliant with your Magento version. The compliance information is stated in the package filename. Once you've downloaded and unzipped the archive, please proceed with the following steps:

Extension has been bought on Marketplace

Then please use the official Magento User Guide to install the package.

Extension has been bought on Best4Mage.com and you have the package

1. Upload Files to your Magento 2 Installation

Upload the contents of the module package to the Magento root folder. This will not overwrite the existing Magento folders or files, only the new contents will be added.

In this case upload the folder(s)
/app to the root of your Magento Installation.

2. Installation of the extension

Open command line in folder root of Magento 2 and run commands via ssh using putty or others

```
php bin/magento setup:upgrade  
If you encounter issues after installation please also run  
php bin/magento setup:di:compile  
php bin/magento setup:static-content:deploy
```

After this has been done please go into your Magento 2 Backend and refresh all caches.

After this when you go to Stores->Configuration. There you should see the TAB Best4Mage Extensions and your newly installed Best4Mage DPPC extension.

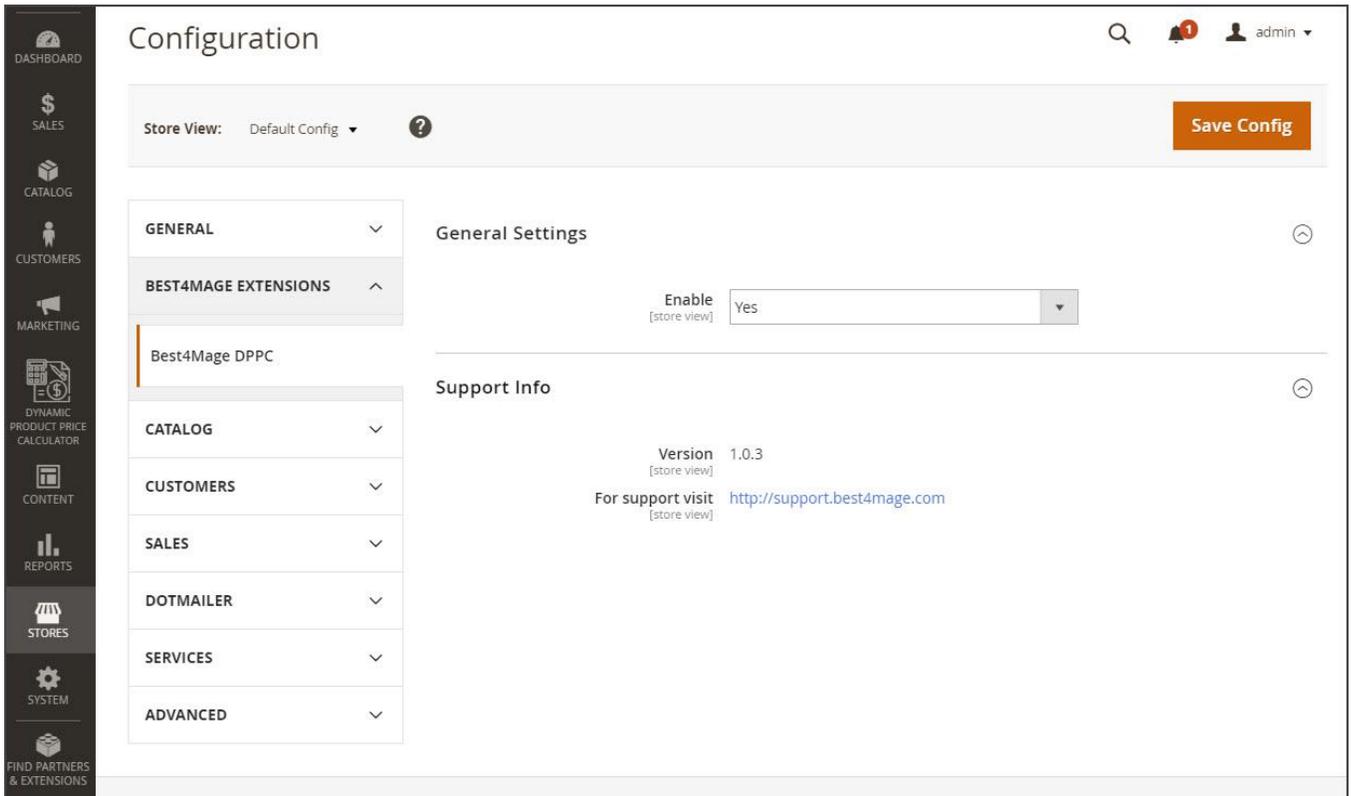
3. Uninstallation of the extension

Open command line in folder root of Magento 2 and run commands via ssh using putty or others
module:uninstall -r Best4Mage_DPPC

3. Setting up DPPC globally

It is relatively easy to set up DPPC below the necessary steps to make it work on your website. In this General setup page you can activate the extension and see the version number and support info details. Go to

Stores->Configuration->Best4Mage Extensions->Best4Mage DPPC



4. Setting up DPPC Sides and Shapes

Type	Attribute Set	SKU	Price	Quantity	Visibility	Status	Websites	Action
Simple Product	Bag	24-MB05	\$45.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-MB06	\$45.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-MB02	\$59.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-UB02	\$74.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-WB01	\$32.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-WB02	\$32.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-WB05	\$32.00	100.0000	Catalog, Search	Enabled	Main Website	Edit
Simple Product	Bag	24-WB06	\$33.00	100.0000	Catalog, Search	Enabled	Main Website	Edit

Developing this extension we have paid special attention about the way to set it up. It is very easy and straightforward. In the above screenshot you see the Extension Icon (1) (in the left panel) to open up the 2 options. Below we will explain on how to set things up. For your convenience we have already created some sides and shapes but you are completely free on how to set this up yourself.

2. Manage side

The screenshot displays the 'DPPC Sides' management page. At the top right, there is a search icon, a notification bell, and a user profile icon labeled 'admin'. Below this is a large orange button labeled 'Add New Side'. A search bar with the placeholder 'Search by keyword' and a magnifying glass icon is present. To the right of the search bar are 'Filters', 'Default View', and 'Columns' dropdown menus. Below the search bar, there is an 'Actions' dropdown menu and a status indicator '4 records found'. A pagination control shows '20 per page' and '1 of 1' records. The main content area is a table with the following data:

ID	Title	Code	Action
1	A	side_a	Select
2	B	side_b	Select
3	C	side_c	Select
4	D	side_d	Select

At the bottom of the page, there is a copyright notice: 'Copyright © 2018 Magento Commerce Inc. All rights reserved.' and the version information: 'Magento ver. 2.2.5' with a link to 'Report an Issue'.

In this area (see above image) you can create the sides for the calculation. When you click on Add New Side you will see the below screen.

The screenshot shows the 'Add New Side' form. At the top right, there is a search icon, a notification bell, and a user profile icon labeled 'admin'. Below this is a large orange button labeled 'Save DPPC Side'. The form contains two input fields: 'Side Title' with the value 'A' and 'Side Code' with the value 'side_a'. There are buttons for 'Back', 'Delete Side', 'Reset', and 'Save and Continue Edit'.

Only 2 settings to do here:

Side Title: This is the title that will show on the front end of your website.

Side Code: This code is used for formula calculation.

3. Manage Shape



DPPC Shapes

Add New Shape

Search by keyword 🔍

Filters

👁️
Default View
⚙️
Columns

Actions

13 records found

20

per page

<

1

of 1

>

	ID ↓	Title	Sides	Image	Min Value	Max Value	Sort Order	Status	Created At	Modified	Action
<input type="checkbox"/>	1	Rectangle	A, B, C, D		500	2500	1	Enabled	Jul 28, 2018 7:18:56 AM	Sep 3, 2018 5:02:45 AM	Select ▼
<input type="checkbox"/>	2	Square	A		500	2500	2	Enabled	Jul 28, 2018 7:18:56 AM	Aug 25, 2018 6:42:07 AM	Select ▼
<input type="checkbox"/>	3	Circle (Actual Formula)	A		500	2500	3	Enabled	Jul 28, 2018 7:18:56 AM	Aug 25, 2018 6:43:22 AM	Select ▼
<input type="checkbox"/>	4	Length	A		500	2500	4	Enabled	Jul 28, 2018 7:18:56 AM	Aug 25, 2018 6:52:56 AM	Select ▼
<input type="checkbox"/>	5	Ellipse (Actual Formula)	A, B		1	2500	5	Enabled	Jul 28, 2018 7:18:56 AM	Aug 31, 2018 7:24:37 AM	Select ▼
<input type="checkbox"/>	6	Polygon (Actual Formula)	A, B, C, D		500	2500	6	Enabled	Jul 28, 2018 7:18:56 AM	Aug 30, 2018 1:47:29 PM	Select ▼
<input type="checkbox"/>	7	Triangle (Actual Formula)	A, B, C		500	2500	7	Enabled	Jul 28, 2018 7:18:56 AM	Jul 28, 2018 7:18:56 AM	Select ▼
<input type="checkbox"/>	8	Quadrilateral (Actual Formula)	A, B, C, D		500	2500	8	Enabled	Jul 28, 2018 7:18:56 AM	Jul 28, 2018 7:18:56 AM	Select ▼

Here you can use one of the predefined shapes or create a shape with its specific formula yourself. Let's select the rectangle and see how it is setup. Or you can of course click on Add New Shape to create your own shape.

General Information

Shape Title *

Status *

Shape Sides

- A (side_a)
- B (side_b)
- C (side_c)
- D (side_d)

Shape Image Bestand kiezen Geen bestand gekozen Delete Image

Shape Formula *

Calculation Type *

Min Max Value *

Enter comma separated {min};{max} value pair for each sides in order. Example, 100:1000,100:5000

Sort Order

1. Shape Title : Shapes title will be shown on Front-end.
2. Status: Enable or disable the shape to appear in frontend.
3. Shape Sides : Options to select sides based on your shape. In the rectangle we only need the A and B side.
4. Shape Image : Image of Shape to show on the frontend.
5. Shape Formula : Formula for calculations. Here you use the previously created Side Code. In the rectangle example you setup the formula like (side_a*side_b)
6. Calculation type: since the extension supports volume and surface we must set this in the shape settings. For length and area calculations choose Surface and for volume choose Volume.
7. Min Max Value : In this setting you can define the minimum and maximum value of the sides of the shape **(the input value)**. For instance if you sell cable by the meter you can set 1 meter minimal and 500 meter maximal like this: **1:500**. In the Rectangle example we have the minimum values for the sides at 500 and the maximum value at 2500. Since the rectangle contains 2 sides we do that like this: **500:2500,500:2500**
IMPORTANT! There are 2 ways to set the Min/Max Values. The Sides Min/Max Value like explained here. This is Min/Max value for the **input unit**. If you want to set min/max for output unit (for instance total sqm) you can do that at product level. Both settings are completely independent.
8. Sort Order : Specify order of shapes to display on product page.

The above is all there needs to be done to create the shapes and calculations. Next step is creating a product for your calculation.

5. Creating the products to use the calculator

Below we will explain how to setup up the products to make use of the calculator. We will do this based on a few examples.

1. Cable sold per meter (simple product)

- Shape settings

1. Shape Title: Length
2. Status: Enabled
3. Shape Sides: A(side_a)
4. Shape Image: Choose an image that represents length (see our example demo below)
5. Shape Formula: side_a
6. Calculation Type: Surface
7. Min Max Value (**input unit**): Minimum 1 meter and maximum 2500 meter is setup like **1:2500**
8. Sort Order: 1

- Creating the product

Create a simple product in Magento the default way. After that go to the **Best4Mage DPPC Settings** and you will see below screen.

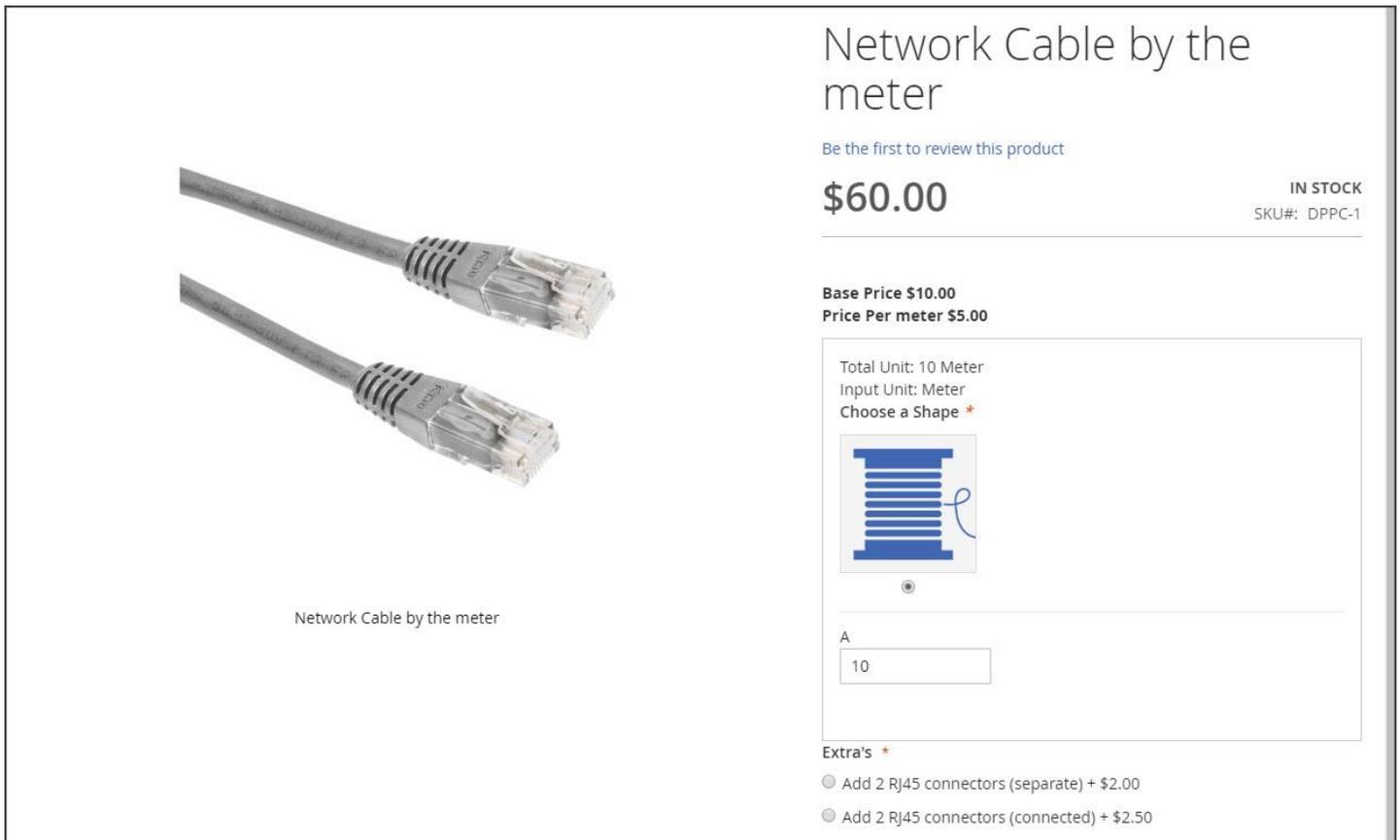
The screenshot shows the 'Best4Mage DPPC Settings' configuration page. It includes the following fields and options:

- Enable DPPC [global]**: A toggle switch set to 'Yes'.
- Choose your Shape [global]**: A dropdown menu with options: ---No Selection---, Rectangle, Square, Circle (Actual Formula), Length (selected), and Ellipse (Actual Formula).
- Unit Price [global]**: A text input field containing '5.0000'.
- Minimum Unit [global]**: A text input field containing '5.0000'.
- Maximum Unit [global]**: A text input field containing '100.0000'.
- Input Unit [global]**: A dropdown menu set to 'Meter'.
- Output Unit [global]**: A dropdown menu set to 'Meter'.
- Minimum Price [global]**: An empty text input field.

In above screenshot you can see how it is set up.

1. Enable DPPC: Yes
2. Choose your Shape: Choose the previously created shape in our example we use **Length**
3. Unit price: set the price per meter.
4. Minimum unit: set the minimum total length that has to be ordered.
5. Maximum unit: set the maximum total length that can be ordered.
6. Input Unit: set the input unit calculation is based on and that will show on frontend.
7. Output Unit: set the output unit calculation is based on and that will show on frontend.
8. If you want you can set a Minimum Price.

In our example we have added Magento custom options to put connectors on the cable. If all is done well it will look like this on frontend.



The screenshot shows a product page for 'Network Cable by the meter'. On the left, there is an image of two network cables with RJ45 connectors. Below the image is the text 'Network Cable by the meter'. On the right, the product title 'Network Cable by the meter' is displayed in a large font. Below the title, there is a link 'Be the first to review this product'. The price is shown as '\$60.00' in a large font. To the right of the price, it says 'IN STOCK' and 'SKU#: DPPC-1'. Below the price, the 'Base Price \$10.00' and 'Price Per meter \$5.00' are listed. A section titled 'Choose a Shape *' contains a radio button selected for a shape represented by a blue icon of a cable reel. Below this, there is a text input field labeled 'A' with the value '10'. At the bottom, there is an 'Extra's *' section with two radio buttons: 'Add 2 RJ45 connectors (separate) + \$2.00' and 'Add 2 RJ45 connectors (connected) + \$2.50'.

You can see this example live on our [demo website](#).

2. Carpet sold per square meter (simple product)

- Shape settings

1. Shape Title: Rectangle Carpet
2. Status: Enabled
3. Shape Sides: A(side_a) and B(side_b)
4. Shape Image: Choose an image that represents length (see our example demo below)
5. Shape Formula: side_a*side_b
6. Calculation Type: Surface
7. Min Max Value (**input unit sides**): we have set that up like this **1:30,1:4**
8. Sort Order: 1

- Creating the product

Create a simple product in Magento the default way. After that go to the **Best4Mage DPPC Settings** and you will see below screen.

Best4Mage DPPC Settings

Enable DPPC Yes

Choose your Shape
Rectangle Carpet
Square
Circle (Actual Formula)
Length
Ellipse (Actual Formula)

Unit Price

Minimum Unit

Maximum Unit

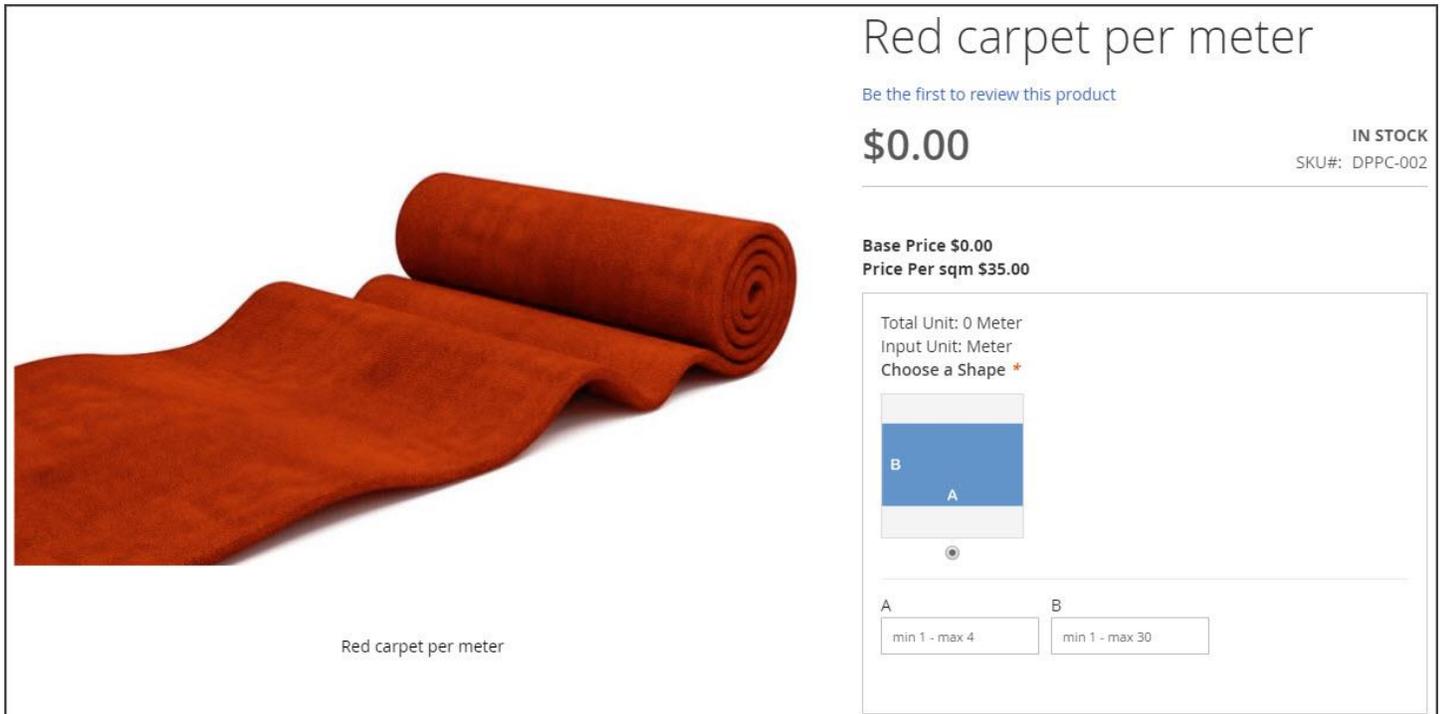
Input Unit

Output Unit

Minimum Price

In above screenshot you can see how it is set up.

1. Enable DPPC: Yes
2. Choose your Shape: Choose the previously created shape in our example we use **Rectangle Carpet**
3. Unit price: set the price per meter.
4. Minimum unit: set the minimum length that has to be ordered.
5. Maximum unit: set the maximum length that can be ordered.
6. Input Unit: set the input unit calculation is based on and that will show on frontend.
7. Output Unit: set the output unit calculation is based on and that will show on frontend.
8. If you want you can set a Minimum Price.



Red carpet per meter

Be the first to review this product

\$0.00

IN STOCK
SKU#: DPPC-002

Base Price \$0.00
Price Per sqm \$35.00

Total Unit: 0 Meter
Input Unit: Meter
Choose a Shape *

B
A

A min 1 - max 4 B min 1 - max 30

You can see this example live on our [demo website](#).

3. Acrylic Plates cut in different shapes and thickness of the plates (configurable product)

- Shape settings

Because this product comes in different thickness of the plates we have set this up as a configurable product. In this example we use multiple shapes and formulas. Setting things up can be done similar to the above mentioned shape settings with different formulas.

- Creating the product

Create a configurable product in Magento the default way. After that go to the **Best4Mage DPPC Settings**. Since a configurable product uses the details of the simple product you can have different DPPC settings at every simple product. For instance each thickness in our Acrylic Plate example has a different sqm price.

IMPORTANT! Only the shapes are taken from the configurable product only.

Below settings can be set at the configurable product and/or at the simple product. **If the Simple product value is empty the configurable product value will be used so Simple Product value is leading here.**

1. Enable DPPC: Yes (*can be set at Configurable or Simple Product*)
2. Choose your Shape: Choose one or more from the previously created shapes (*can **ONLY** be set at Configurable Product*)
3. Unit price: set the price per meter (*can be set at Configurable or Simple Product*)
4. Minimum unit: set the minimum length that has to be ordered (*can be set at Configurable or Simple Product*).
5. Maximum unit: set the maximum length that can be ordered (*can be set at Configurable or Simple Product*).
6. Input Unit: set the input unit calculation is based on and that will show on frontend (*can be set at Configurable or Simple Product*).
7. Output Unit: set the output unit calculation is based on and that will show on frontend (*can be set at Configurable or Simple Product*).
8. If you want you can set a Minimum Price. (*can be set at Configurable or Simple Product*).

In this acrylic plates example we have only set a different Unit price for each thickness. When settings are done it will look like this on the frontend.

Acrylic Plates cut in different shapes and thickness of the plates (configurable product)

Be the first to review this product

\$10.00

IN STOCK
SKU#: B4M-DPPC-CP

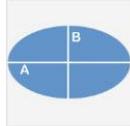
Thickness *

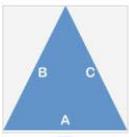
Base Price \$10.00
Price Per sqcm \$2.00

Total Unit: 0 Centimeter
Input Unit: Centimeter
Choose a Shape *









This is a required field.

min 500 - max 2500

min 500 - max 2500

min 500 - max 2500



You can see this example live on our [demo website](#).

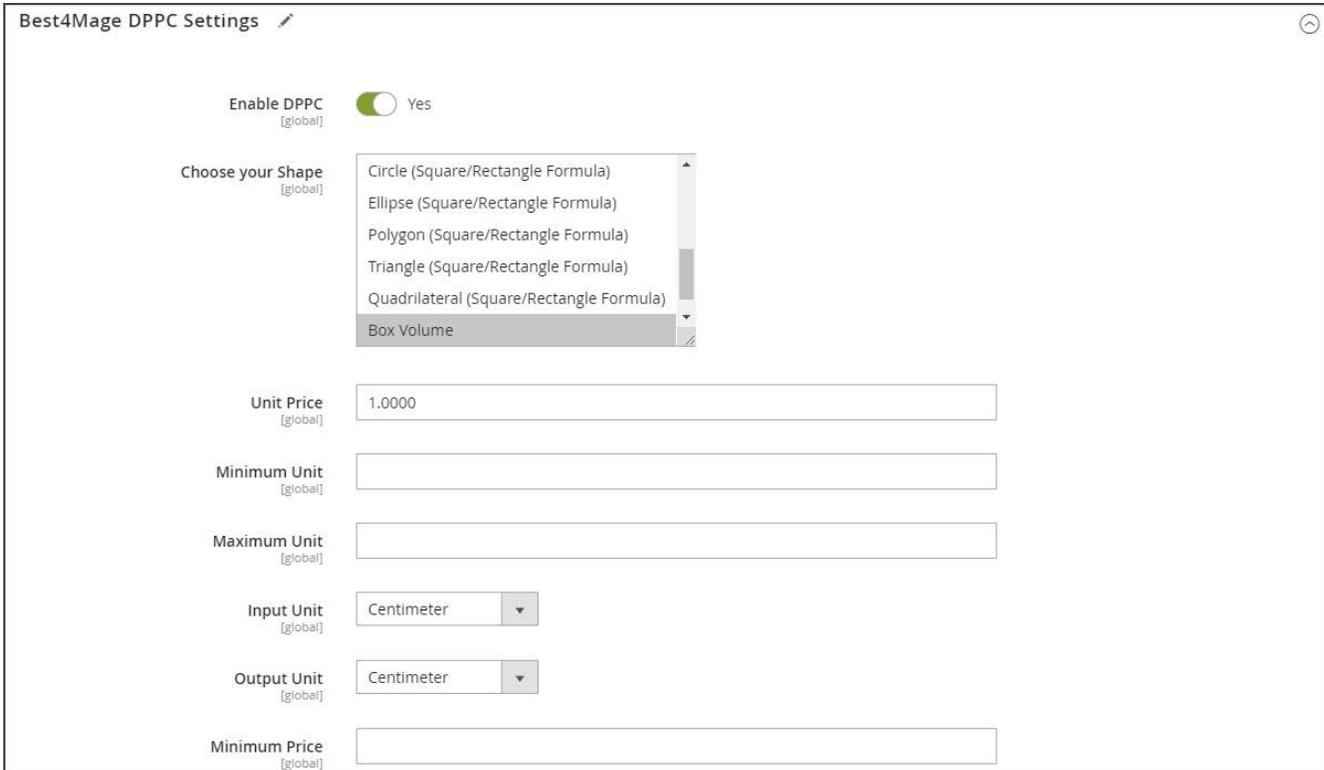
4. Box Volume Product (simple product)

- Shape settings

9. Shape Title: Box Volume
10. Status: Enabled
11. Shape Sides: A(side_a), B(side_b) and C(side_c)
12. Shape Image: Choose an image that represents volume (see our example demo below)
13. Shape Formula: $side_a * side_b * side_c$
14. Calculation Type: **Volume**
15. Min Max Value: we have set that up like this **10:100,10:20,30:60** (since we have 3 sides to calculate volume we need three value pairs).
16. Sort Order: 1

- Creating the product

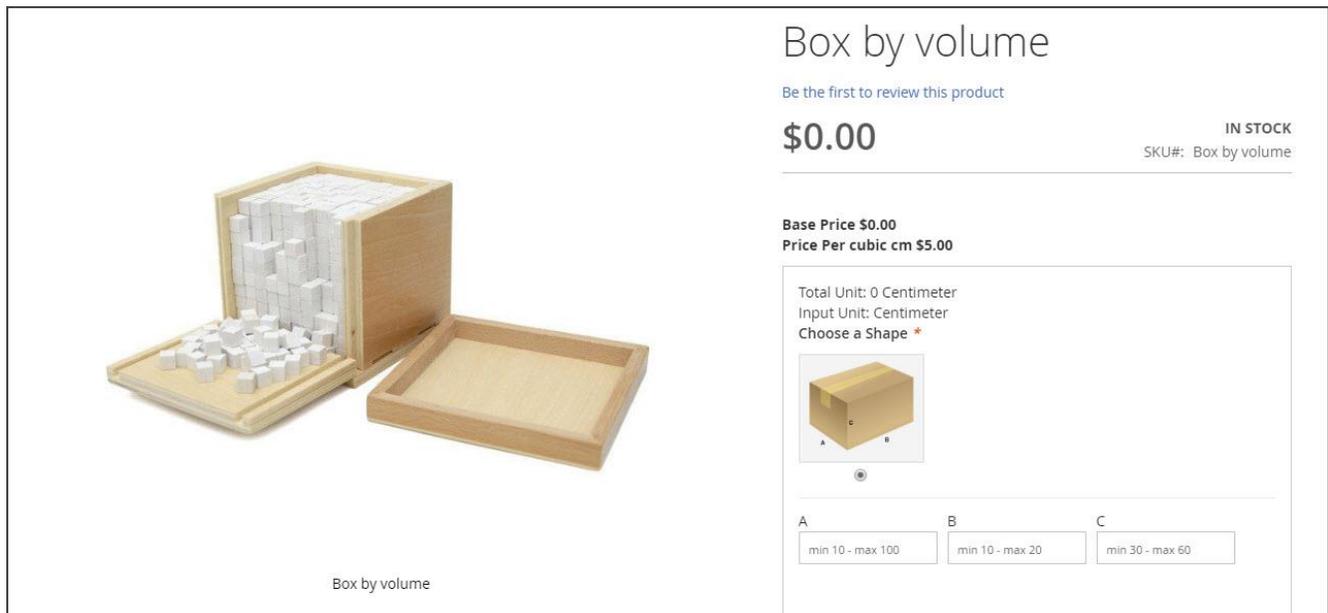
Create a simple product in Magento the default way. After that go to the **Best4Mage DPPC Settings** and you will see below screen.



The screenshot shows the 'Best4Mage DPPC Settings' configuration page. At the top, there is a title 'Best4Mage DPPC Settings' with an edit icon. Below the title, there is a toggle switch for 'Enable DPPC' which is currently turned on to 'Yes'. Underneath, there is a dropdown menu for 'Choose your Shape' with the following options: Circle (Square/Rectangle Formula), Ellipse (Square/Rectangle Formula), Polygon (Square/Rectangle Formula), Triangle (Square/Rectangle Formula), Quadrilateral (Square/Rectangle Formula), and Box Volume (which is selected). Below the dropdown, there are several input fields: 'Unit Price' with the value '1.0000', 'Minimum Unit', 'Maximum Unit', 'Input Unit' (set to 'Centimeter'), 'Output Unit' (set to 'Centimeter'), and 'Minimum Price'.

In above screenshot you can see how it is set up.

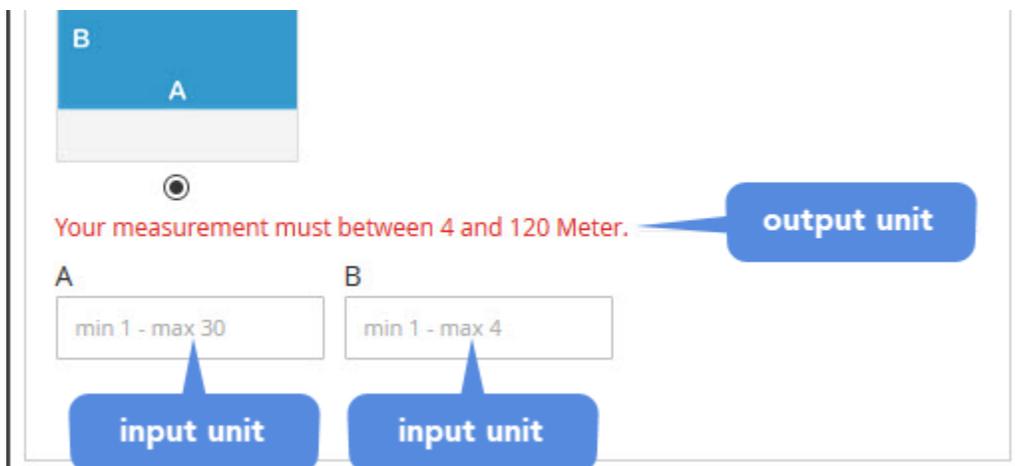
1. Enable DPPC: Yes
2. Choose your Shape: Choose the previously created shape in our example we use **Box Volume**
3. Unit price: set the price per centimeter.
4. Minimum unit: set the minimum length that has to be ordered.
5. Maximum unit: set the maximum length that can be ordered.
6. Input Unit: set the input unit calculation is based on and that will show on frontend.
7. Output Unit: set the output unit calculation is based on and that will show on frontend.
8. If you want you can set a Minimum Price.



The screenshot shows a product page for 'Box by volume'. On the left is an image of a wooden box filled with small white cubes. On the right, the product details are displayed: 'Box by volume' title, 'Be the first to review this product', a price of '\$0.00', and 'IN STOCK' status with SKU# 'Box by volume'. Below this, it shows 'Base Price \$0.00' and 'Price Per cubic cm \$5.00'. A form section includes 'Total Unit: 0 Centimeter', 'Input Unit: Centimeter', and a 'Choose a Shape *' dropdown menu with a radio button selected. Below the dropdown are three input fields for dimensions A, B, and C, each with a range: 'min 10 - max 100', 'min 10 - max 20', and 'min 30 - max 60'.

You can see this example live on our [demo website](#).

IMPORTANT! There are 2 places where you can set the Min/Max Values. The Shapes min/max Value. This is Min/Max value for the **input unit**. If you want to set min/max for **output unit** (for instance total sqm) you can do that at product level. Both settings are completely independent.



The diagram shows a product page with a dropdown menu for 'Choose a Shape' and two input fields for dimensions A and B. The input field for A has 'min 1 - max 30' and the input field for B has 'min 1 - max 4'. A blue callout bubble points to the input fields with the text 'input unit'. Another blue callout bubble points to the text 'Your measurement must between 4 and 120 Meter.' with the text 'output unit'.

These are the basic things you need to know. If you need any help to set things up just create a support ticket at our website www.best4mage.com

For any further questions or technical issues please also create a support ticket.