# Blue Beam- FQQ Takeoff

This tutorial is for the creation of the **Blue Beam** export that is used to import into **FQQ** for rapid takeoff. The **FQQ** download and instructional videos are available at the following link:
[FQQ Download Page](#)

Download the **BTX Toolbox** files from the Autocall website, (download is located on the page above), and unzip the folder.
Install **Blue Beam Revu**, (a 30-day free trial is available).
Double click each unzipped toolbox to import into **Blue Beam**
**Note:** There is a toolbox titled **FQQ Panels.** It isn't recommended to use the panel toolbox in BB for Autocall as the panel backboxes are usually part of the **Navigator** system build and might cause accidental double ordering of backboxes and doors.

Open **Blue Beam**>**File**>**Open**> Select **PDF> Open**

**Flatten** drawing so CSV export will only contain new markups:
- At top, select **Document**> **Flatten>** Click **Flatten** button at bottom
- The **Markups List** at bottom should be empty at this point

**Set Scale:** Make note of scale on the drawing.
- Click bottom right on **Scale Not Set**
- Select **Pages** for which the scale applies
- Set **Scale** and **Apply Scale**
- Verify by selecting at top **Tools**> **Measure**> **Length** and measure a standard 3' doorway

**Reuse Tools** (optional)- Allows the user to re-use the same tool multiple times without reselecting each time.
- At top, select **Revu**> **Preferences**>**Tools** section> **Markup** tab>check the "**Reuse Tools**" box> **OK**

**Performing a takeoff for a set of pre-engineered drawings:**

The imported toolboxes should be displayed on the left. If they aren't, click on the 🧰 button in the left menu. **Icon** or **List** view is selectable by clicking the gear next to the toolbox name; **Symbol** for icon view, **Detail** for list view.

Select the appropriate fire alarm device and place it on top of the pre-engineered devices on the drawing. Repeat for all device types. Once completed, skip past the following **Design Build** instruction to **Creating the CSV**.

**Design Build:**

There is a **Fire Alarm Coverage** toolbox that, if the scale is set properly, allows the user to measure out the proper coverage areas. Smoke detectors will require the 21' spacing tool, for example. Once the coverage map is completed, place the proper devices per code. This will make for a very busy drawing, so the coverage markups can be deleted after the devices are set and the coverages are no longer required. They can be individually deleted or by selecting multiple lines in the markup list at the bottom and deleting.

**Creating the CSV:**

After markups are complete, a **single CSV** can be created to import into **FQQ** with all pages for a single bill of materials takeoff or **multiple CSV** files can be created to allow segregation of field devices attached to different Transponder or Node **Groups**. If segregated, the multiple CSV files would be imported into separate columns in the **File Import** section of FQQ.

**Single CSV:**

- In the **Markups List** bar near the bottom, click the **Export** button ⬆️
- Choose **CSV Summary**
- In the **Output** tab, **Totals** should be selected
- Make sure that **Column Headers** is selected
- File name and export destination can also be edited from this tab
- Click **OK**

The CSV will display after creation. It should contain phrase descriptions for each device with a device quantity displayed inside parentheses. Example below:

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Subject | Page Labe | Comment | Author | Date | Status | Color | Layer | Space |
| 2 | Duct Detector with Test Station and indicator (4) | | | | | | | | |
| 3 | Heat Detector Standard Base (8) | | | | | | | | |
| 4 | Horn Strobe Ceiling Mount White 185cd (1) | | | | | | | | |
| 5 | Horn Strobe Wall Mount White 185cd (1) | | | | | | | | |
| 6 | IAM Module with Trim Plate for Surface Mount Box (11) | | | | | | | | |
| 7 | Pull Station Double Action (10) | | | | | | | | |
| 8 | Smoke Detector Standard Base (7) | | | | | | | | |
| 9 | Speaker Strobe Wall Mount White 110cd (11) | | | | | | | | |
| 10 | Strobe Ceiling Mount White 110cd (4) | | | | | | | | |

The file is ready to be imported into **FQQ**

**Multiple CSV exports:**

- In the **Markups List** bar near the bottom, click the **Export** button ⬆
- Choose **CSV Summary**
- Select the **page range** at the top
- In the **Output** tab, **Totals** should be selected
- File name and export destination can also be selected from this tab
- Click **OK**

Repeat for each page or page range desired. Failure to edit the name for the separate page ranges will cause overwriting of the previous CSV.

**Import the separate CSV files into multiple columns in FQQ.**

## For More Information:

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