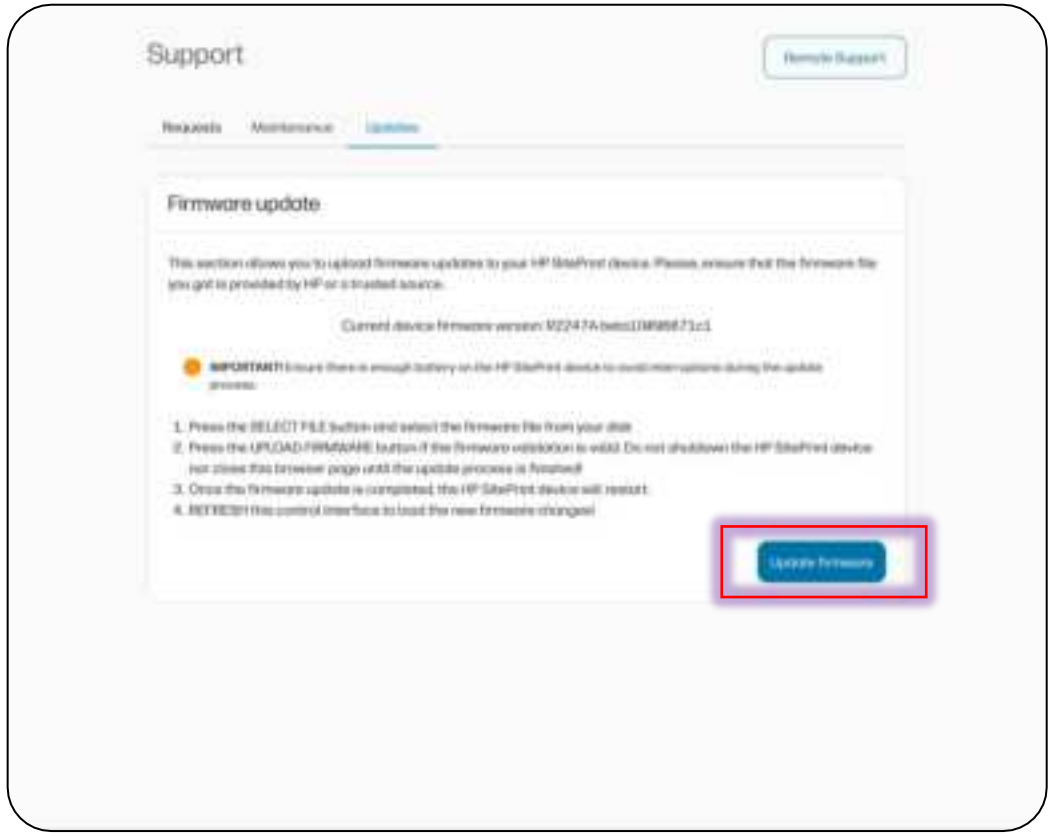
# HP SitePrint Floor Level

## How to use it

# How to use SitePrint Floor Level Service

1

Update your robot FW to VP4.0.1
(Compatible with all installed base)



# How to use SitePrint Floor Level Service

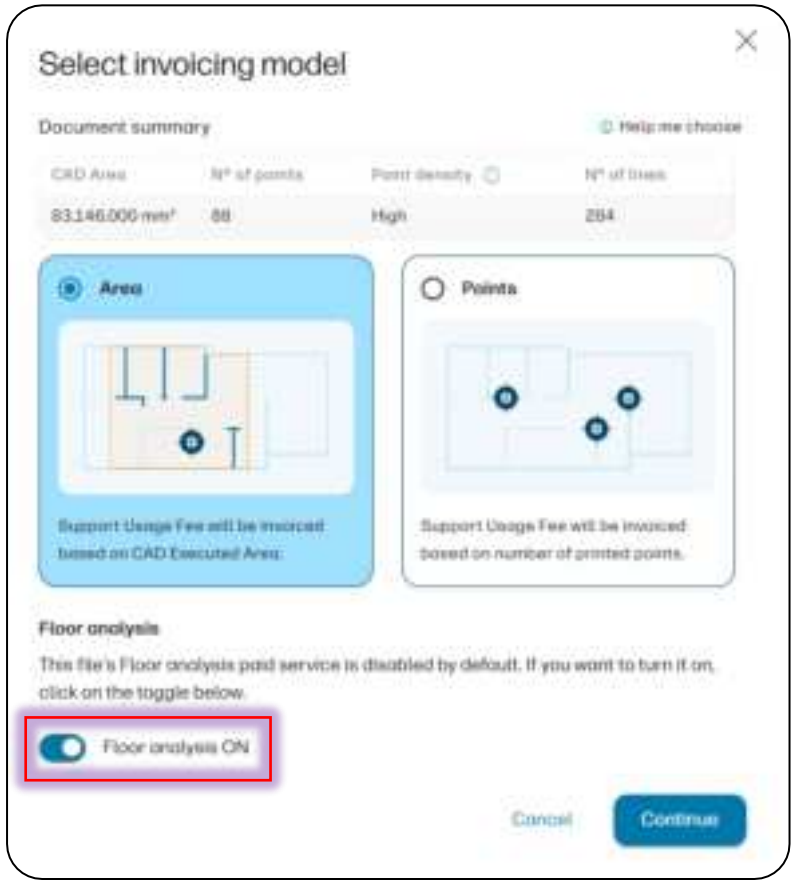
2

Upload the CAD to the SitePrint Cloud

# How to use SitePrint Floor Level Service

3

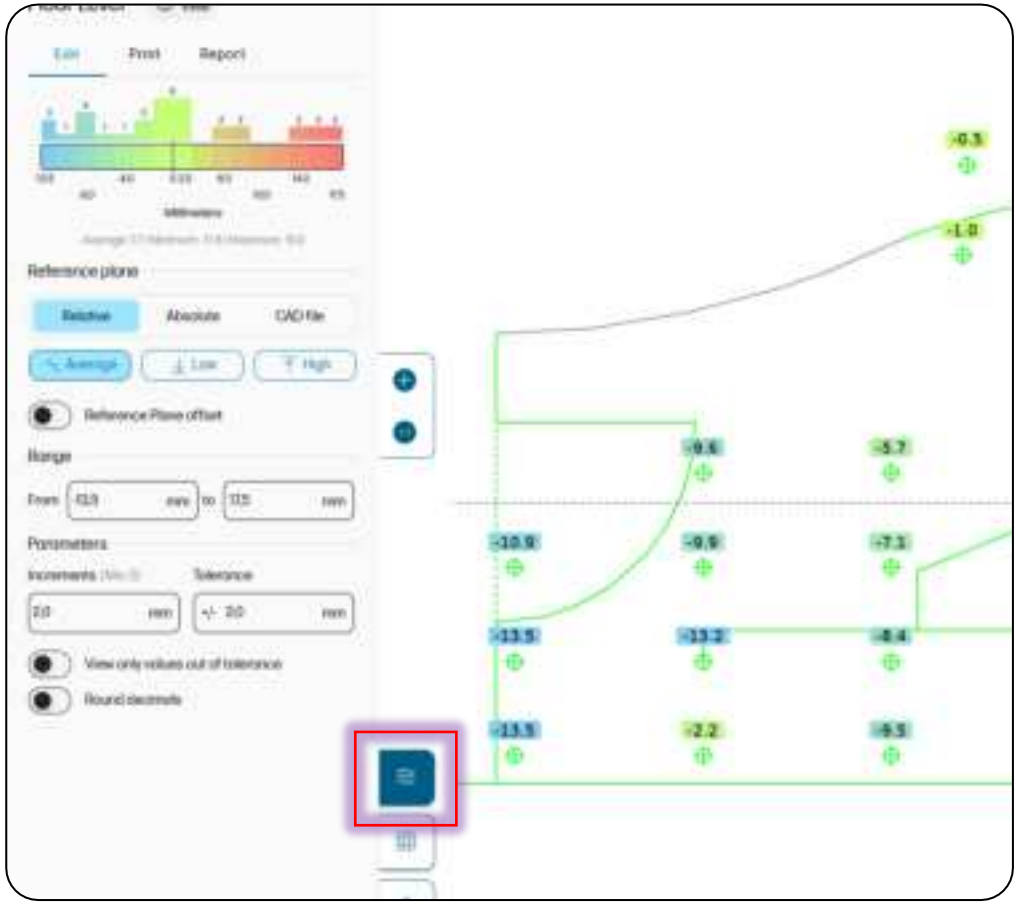
Opt in to the Floor Level Service: “Floor analysis ON”



# How to use SitePrint Floor Level Service

4

In the Control Panel, for files flagged as Floor Level Service, click on the new icon to visualize the elevation information.



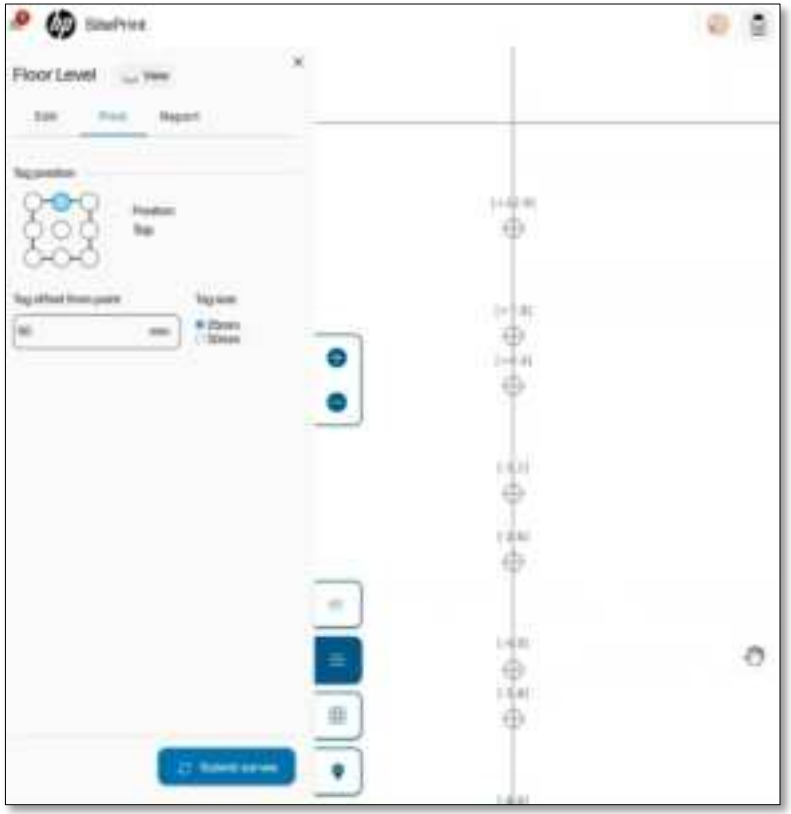
# Floor Level Service Control Panel

# Floor Level – Control Panel

**Visualize** the floor level data in real-time, **Print** the floor deviations and **Download** the elevation information for future reporting

## Edit


## Print




## Report

# Edition Tab

Customize the Floor level visualization according to your needs

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Customize the Floor level visualization according to your needs

Reference Plane Options

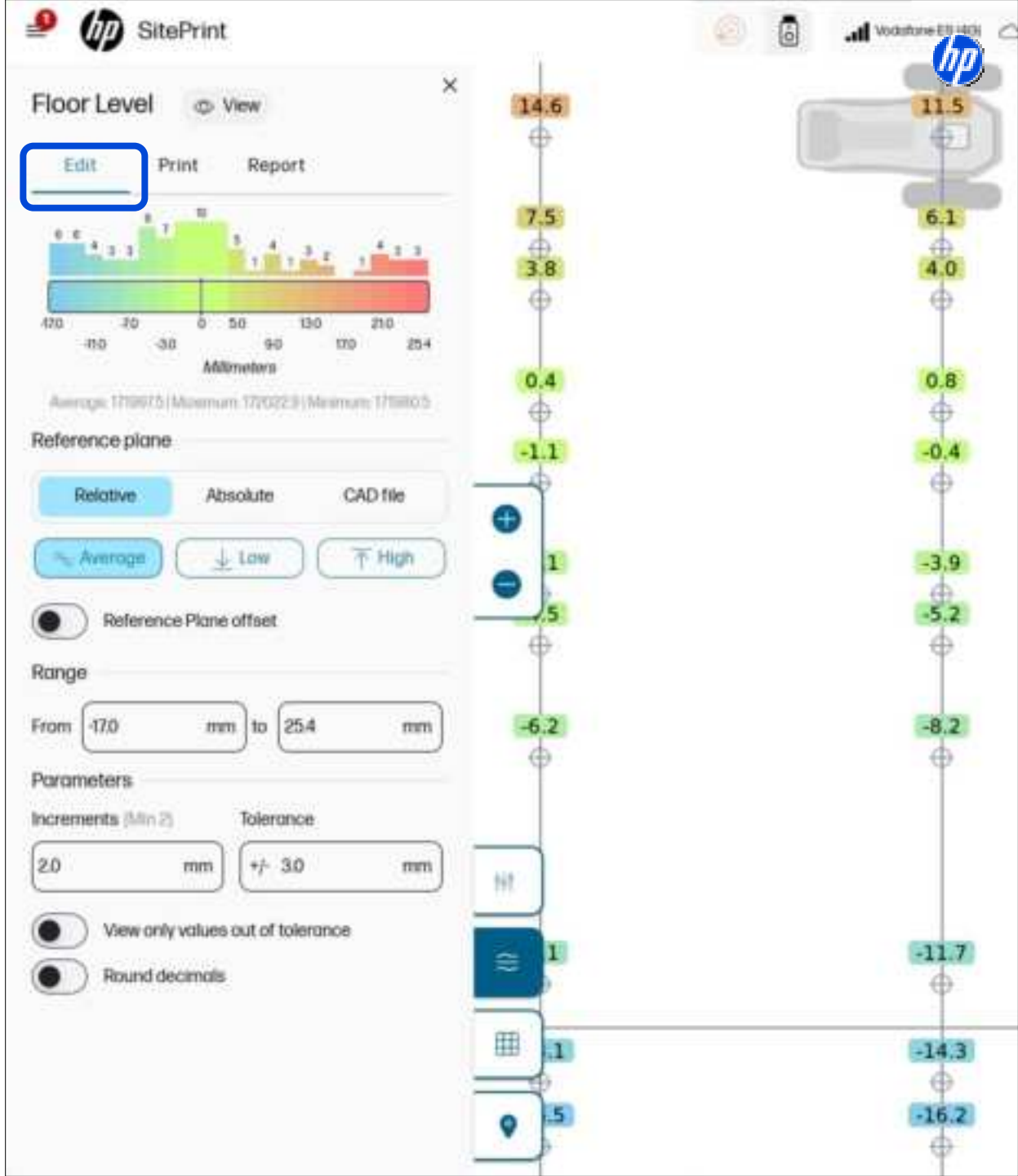
Data Range

Increments

Tolerance Acceptability

View values out of tolerance

Round decimals




# Reference Plane Options

**Relative:** All measured elevations are displayed relative to a flat horizontal plane benchmark, calculated based on the measured points.

## Relative reference plane options


# Reference Plane Options

**Relative:** All measured elevations are displayed relative to a flat horizontal plane benchmark, calculated based on the measured points.

## Relative reference plane options

- **Average**: The reference plane is set based on the average elevation of all measured points within the specified elevation range.


# Reference Plane Options

**Relative:** All measured elevations are displayed relative to a flat horizontal plane benchmark, calculated based on the measured points.

## Relative reference plane options

- **Average**: The reference plane is set based on the average elevation of all measured points within the specified elevation range.
- **Low**: The reference plane defined as the lowest measured elevation of all points within the defined elevation range.


# Reference Plane Options

**Relative:** All measured elevations are displayed relative to a flat horizontal plane benchmark, calculated based on the measured points.

## Relative reference plane options

- **Average**: The reference plane is set based on the average elevation of all measured points within the specified elevation range.
- **Low**: The reference plane defined as the lowest measured elevation of all points within the defined elevation range.
- **High**: The reference plane is set at the highest measured elevation of all points within the defined elevation range.


# Reference Plane Options

**Absolute:** All measured elevations are displayed relative to a fixed horizontal plane defined by an external reference value.

## Absolute reference plane options


# Reference Plane Options

**Absolute:** All measured elevations are displayed relative to a fixed horizontal plane defined by an external reference value.

## Absolute reference plane options

- **Raw data**: Elevation values are displayed exactly as measured by the Robotic Total Station, based on the resection's Z coordinates.


# Reference Plane Options

**Absolute:** All measured elevations are displayed relative to a fixed horizontal plane defined by an external reference value.

## Absolute reference plane options

- Raw data: Elevation values are displayed exactly as measured by the Robotic Total Station, based on the resection's Z coordinates.
- **Custom value**: The reference plane is defined by a user-specified elevation value.


# Reference Plane Options

**CAD file:** All measured elevations are displayed independently of each other.

## CAD file reference plane

- **CAD File**: The elevation measured for each individual point gets compared to its target elevation as defined by the CAD Z coordinate.
- Used to compare to any surface shape.


# Reference Plane Options

**CAD file:** All measured elevations are displayed independently of each other.

## Reference Plane Options

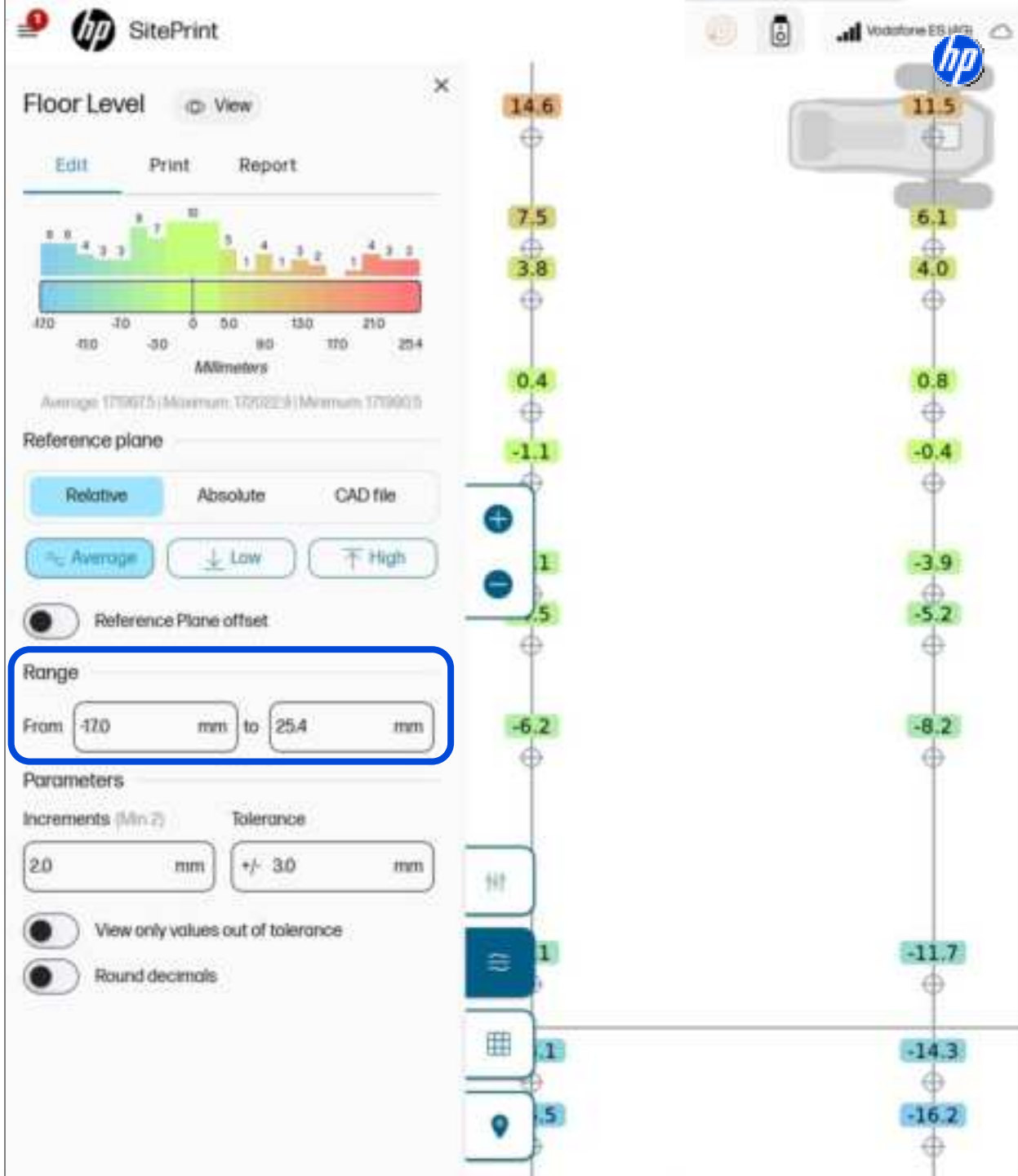
- **Reference Plane offset:** Allows to apply an elevation offset to the reference plane, shifting all displayed elevation values.

# Edit Features

Visualize the Floor Level data according to your needs.

**Range:**

- Automatically adjusts to the minimum and maximum elevations detected in the scanned area.
- Helpful for quickly visualizing whether the scanned surface meets required standards.
- It can also be set manually to exclude points outside the desired range and filter outliers.



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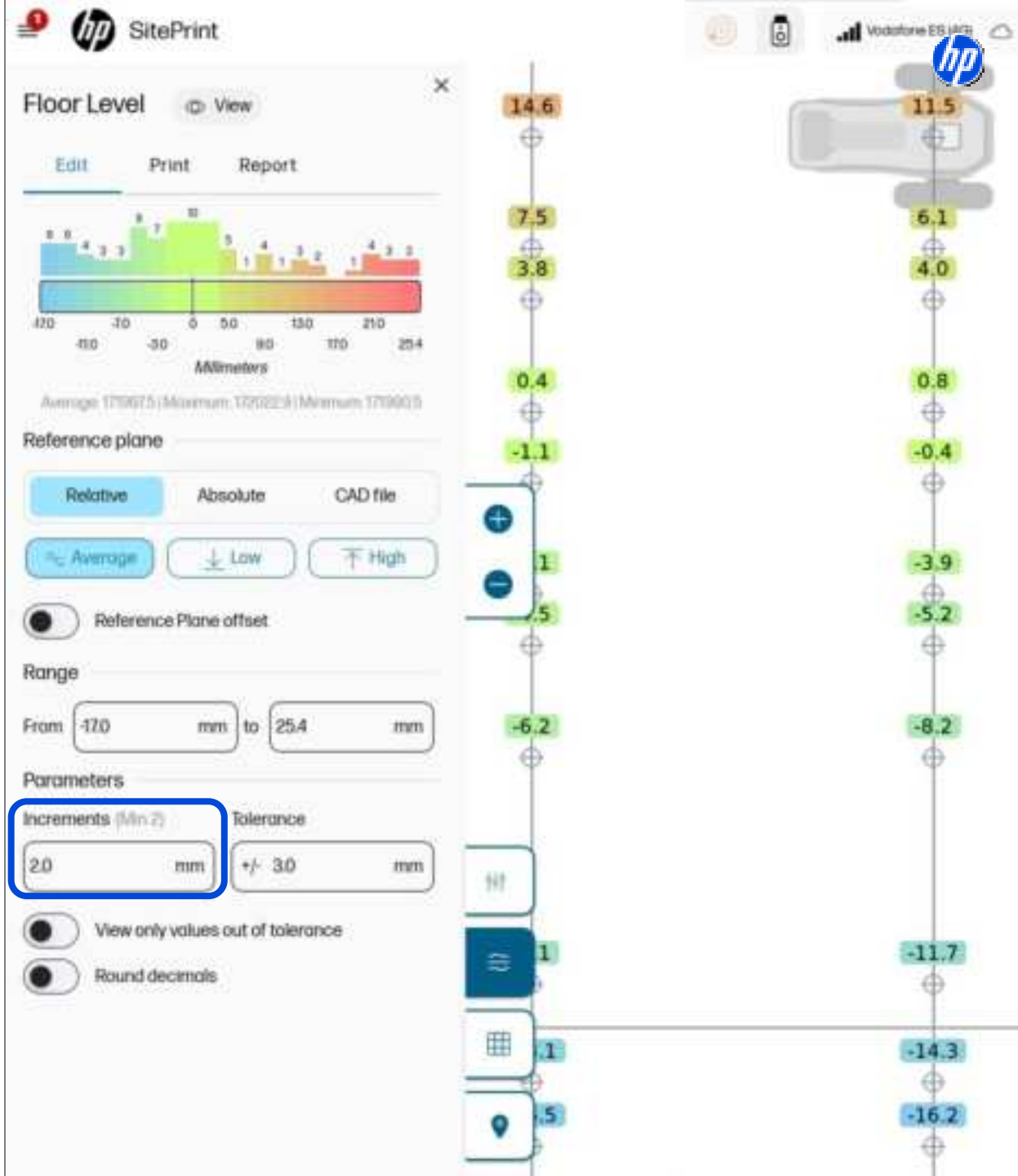
**Increments:** Controls the number of buckets intervals used in the histogram. Constraint to 30 intervals across the range.



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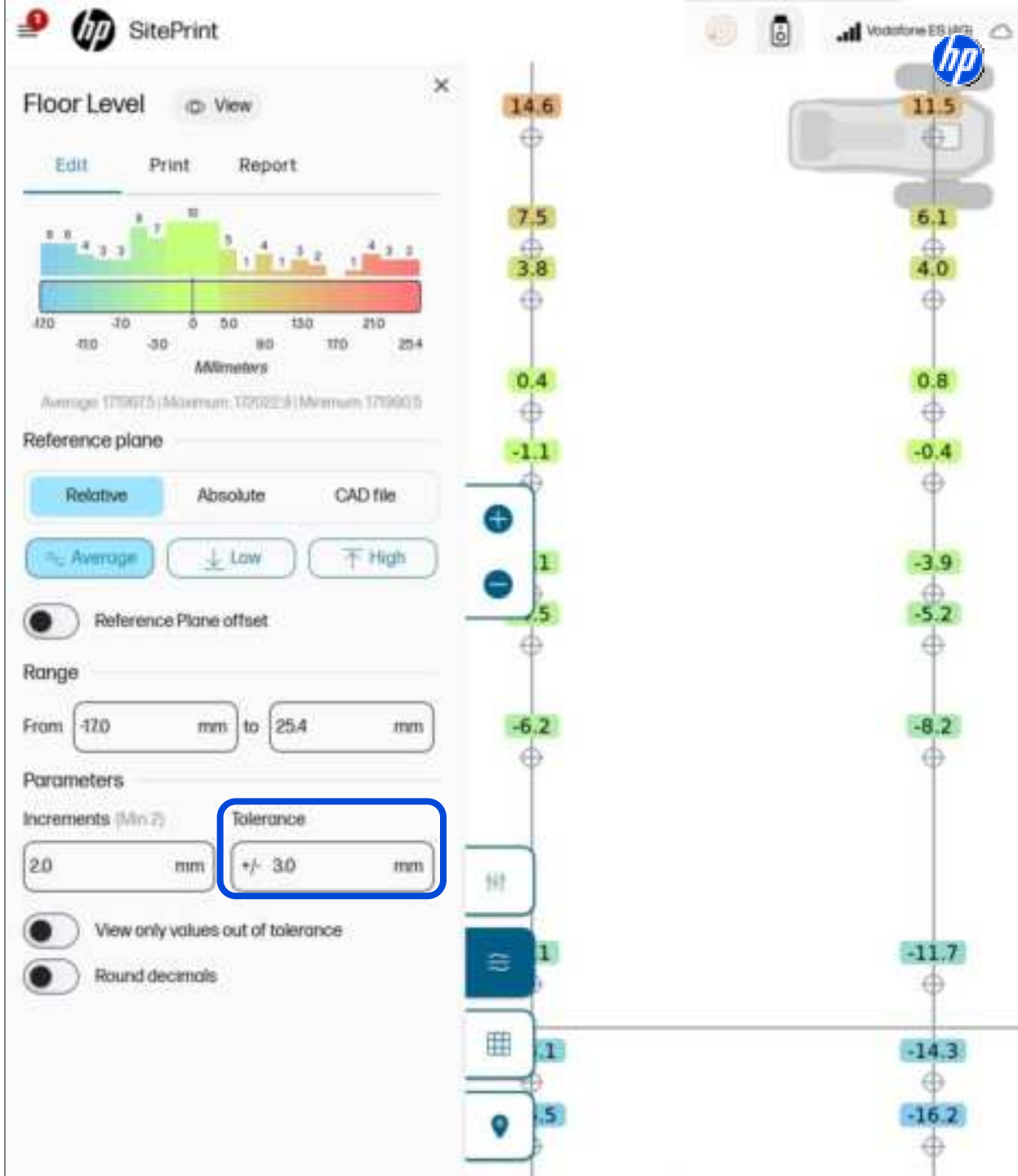
**Tolerance:** Defines the acceptable deviation from the ideal elevation.

- Values within the tolerance range will be marked in green.



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**View only values out of tolerance:** Allows hiding values and elevation tags within tolerance.

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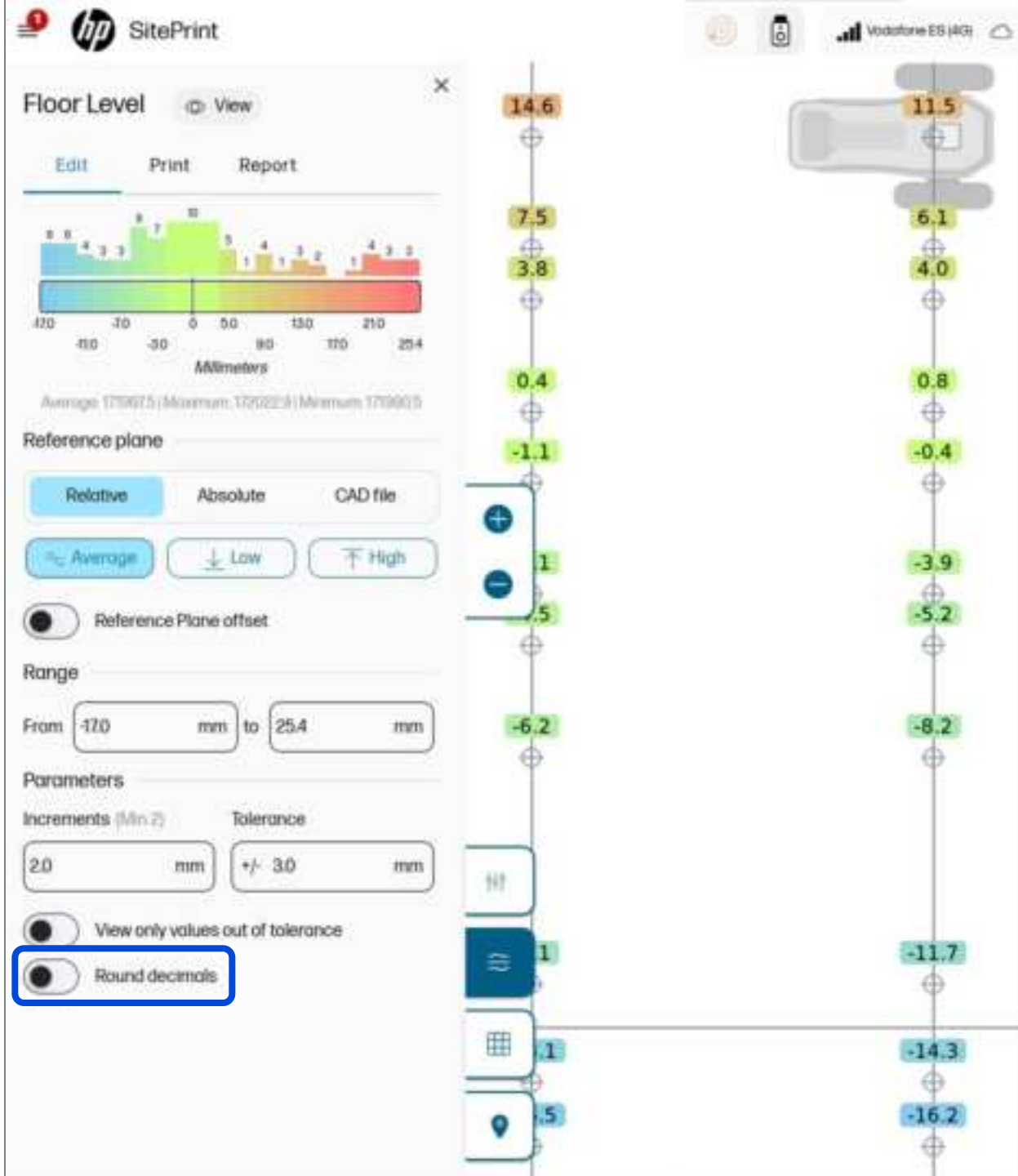
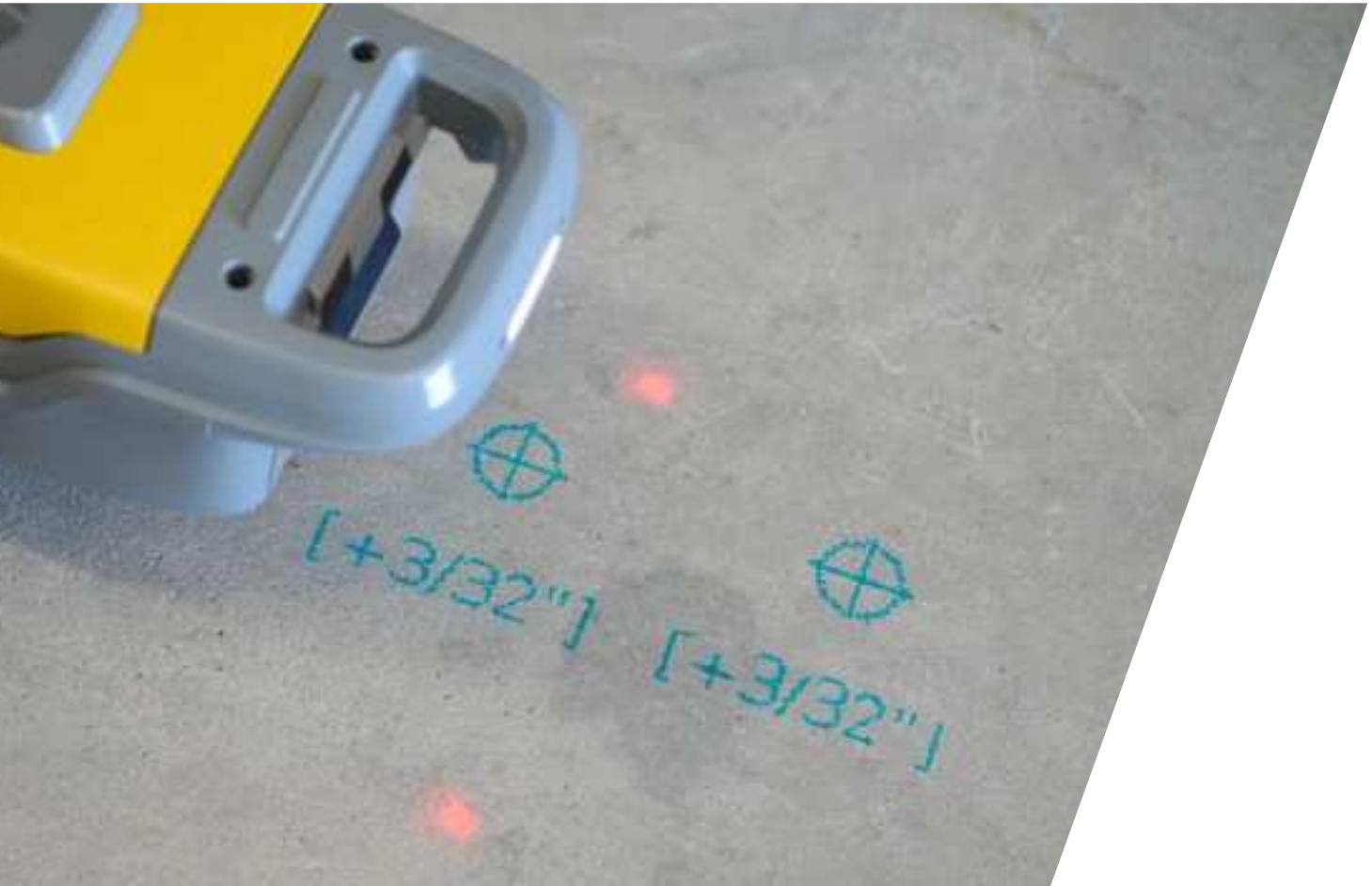
**Round decimals:**
- In metric, rounds to zero decimals (1mm)
- In Imperial, rounds to one decimal (0.1 inches / 2.5mm)



# Print Tab

Mark the floor deviation corrections on the slab, so everybody has the right information



# Print Tab

Mark the floor deviation corrections on the slab, so everybody has the right information

## Tag Position

---

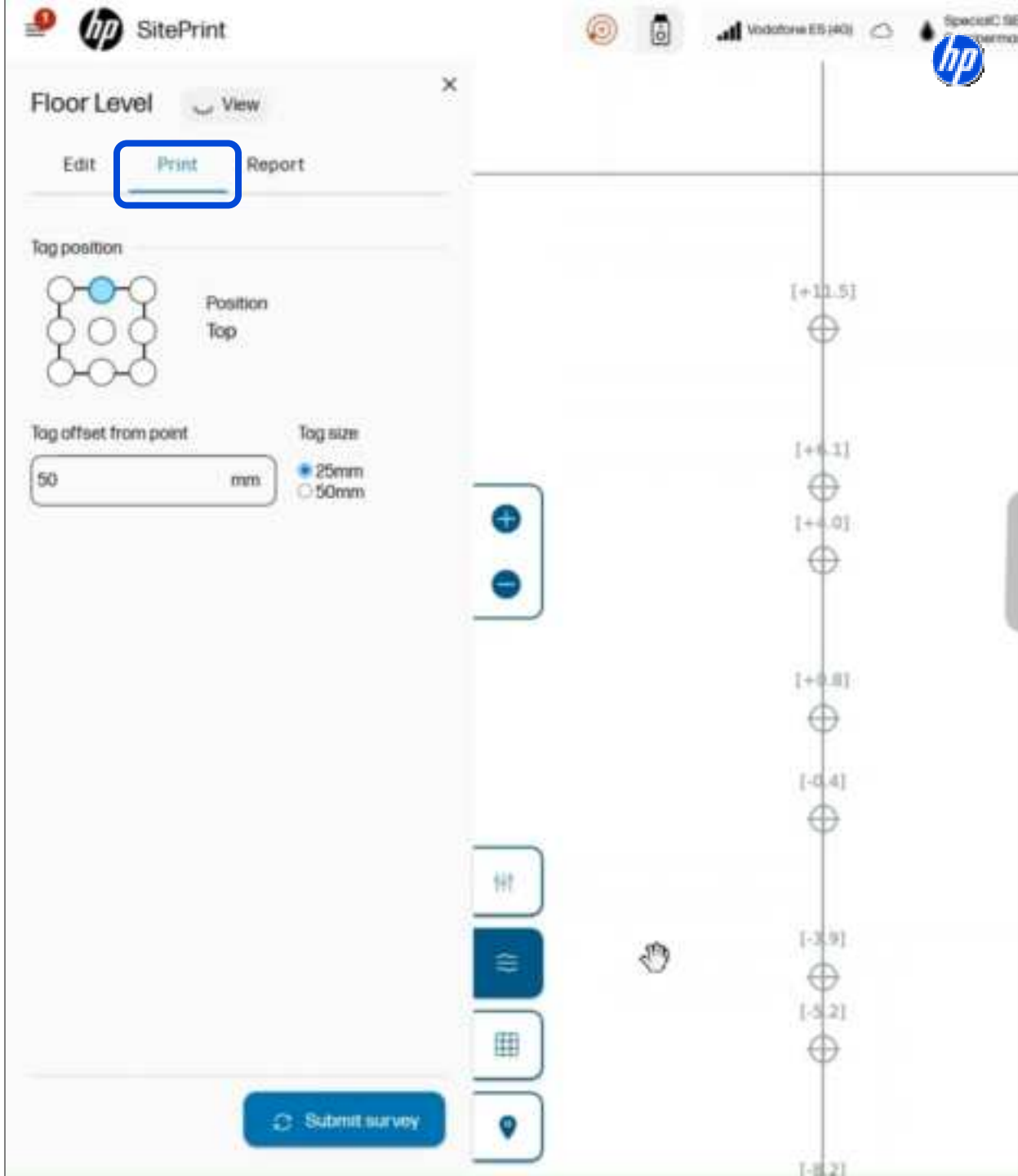
## Tag Offset

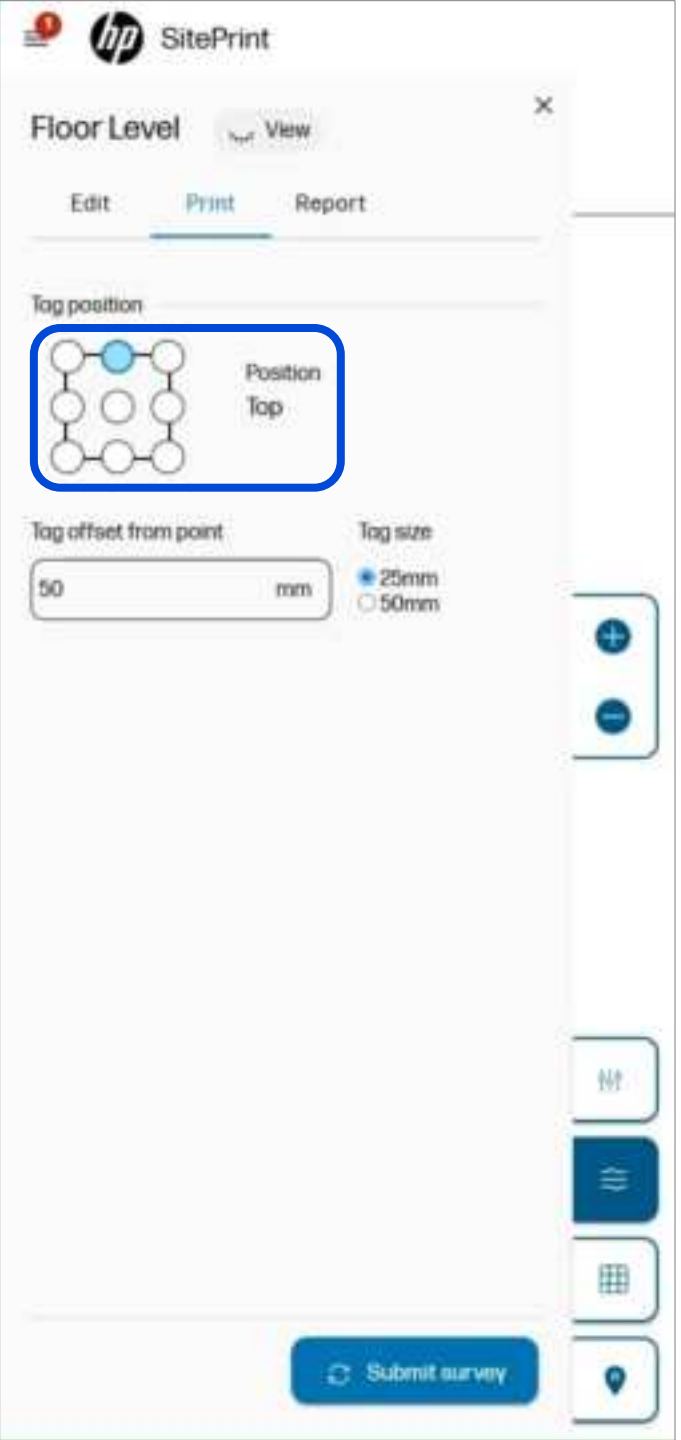
---

## Tag Size

---

## Submit Survey



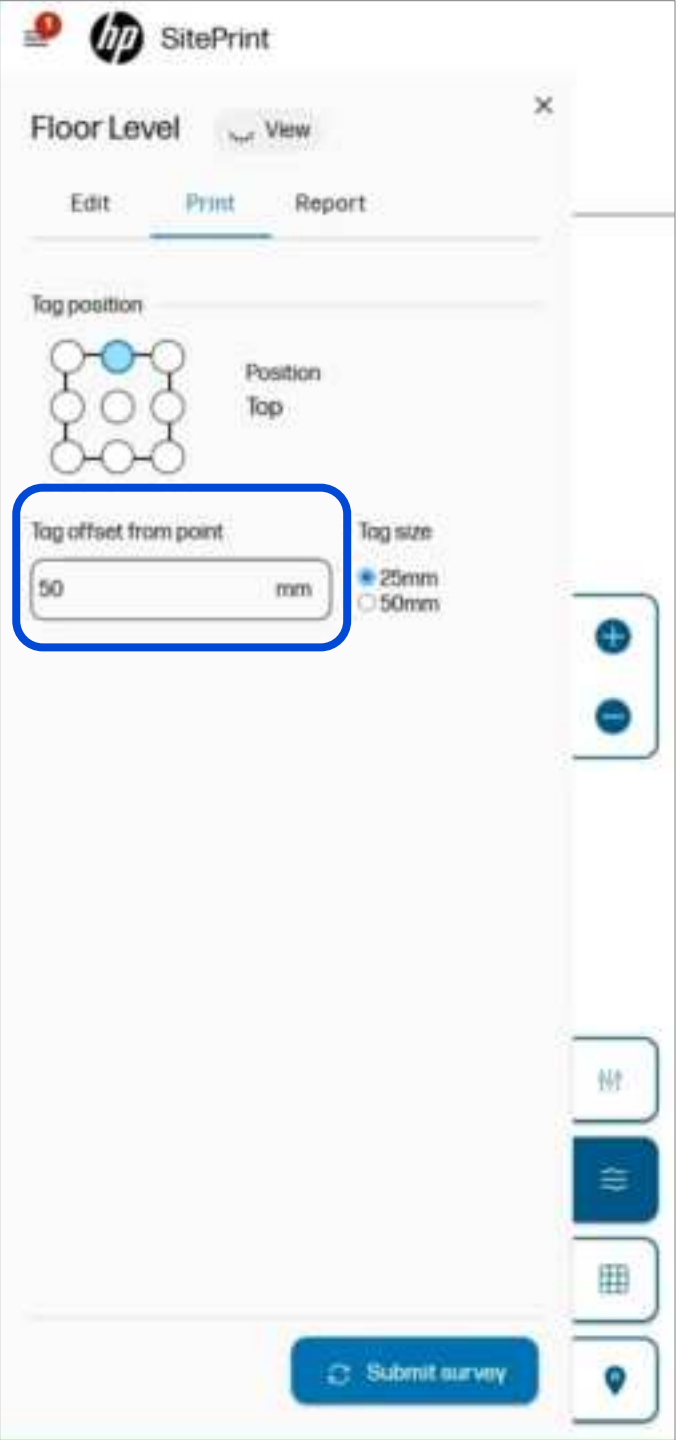



# Print tags on the slab

Customize position and size so your printed labels are always visibl on the slab.

## Tag position

- Select the most appropriate position for the printable labels




# Print tags on the slab

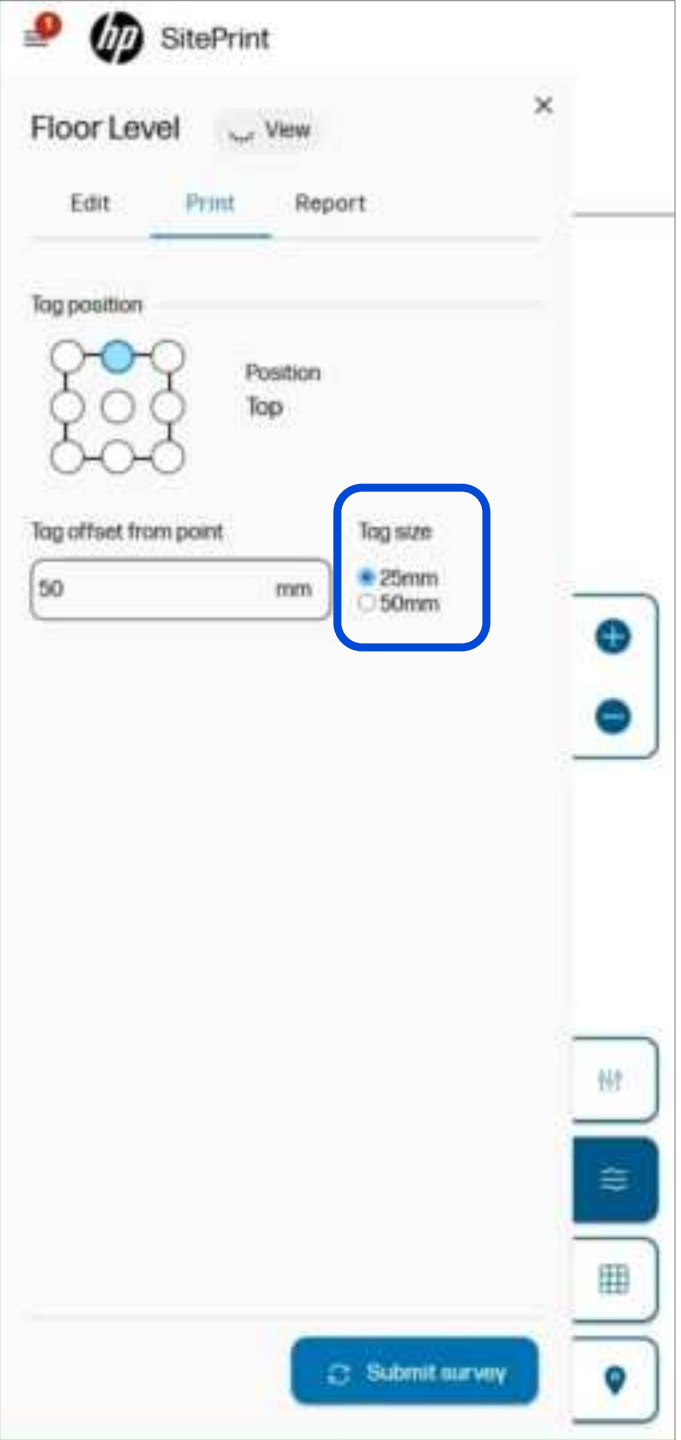
Customize position and size so your printed labels are always visibl on the slab.

## Tag position

- Select the most appropriate position for the printable labels

## Tag offset from point

- Define the label offset location to the point

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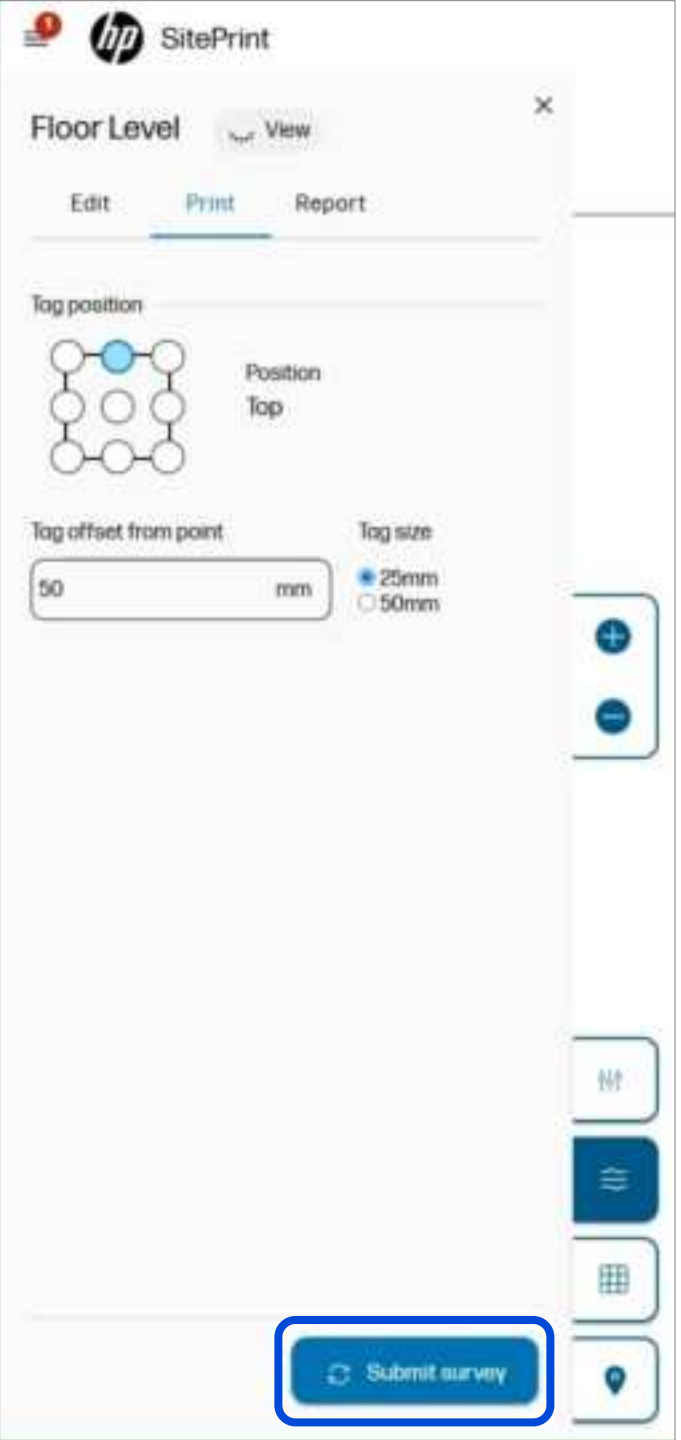
- Choose the size of your tags

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## Tag position

- Select the most appropriate position for the printable labels.

## Tag offset from point

- Define the label offset location to the point.

## Tag size

- Choose the size of your tags.

## Submit survey

- Sent HP SitePrint to automatically print all the floor deviation labels.
- No selection is needed, all tags will be printed

# Report Tab

Download a CSV report with the floor level data and generate custom documentation.

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Download a CSV report with the floor level data and generate custom documentation.

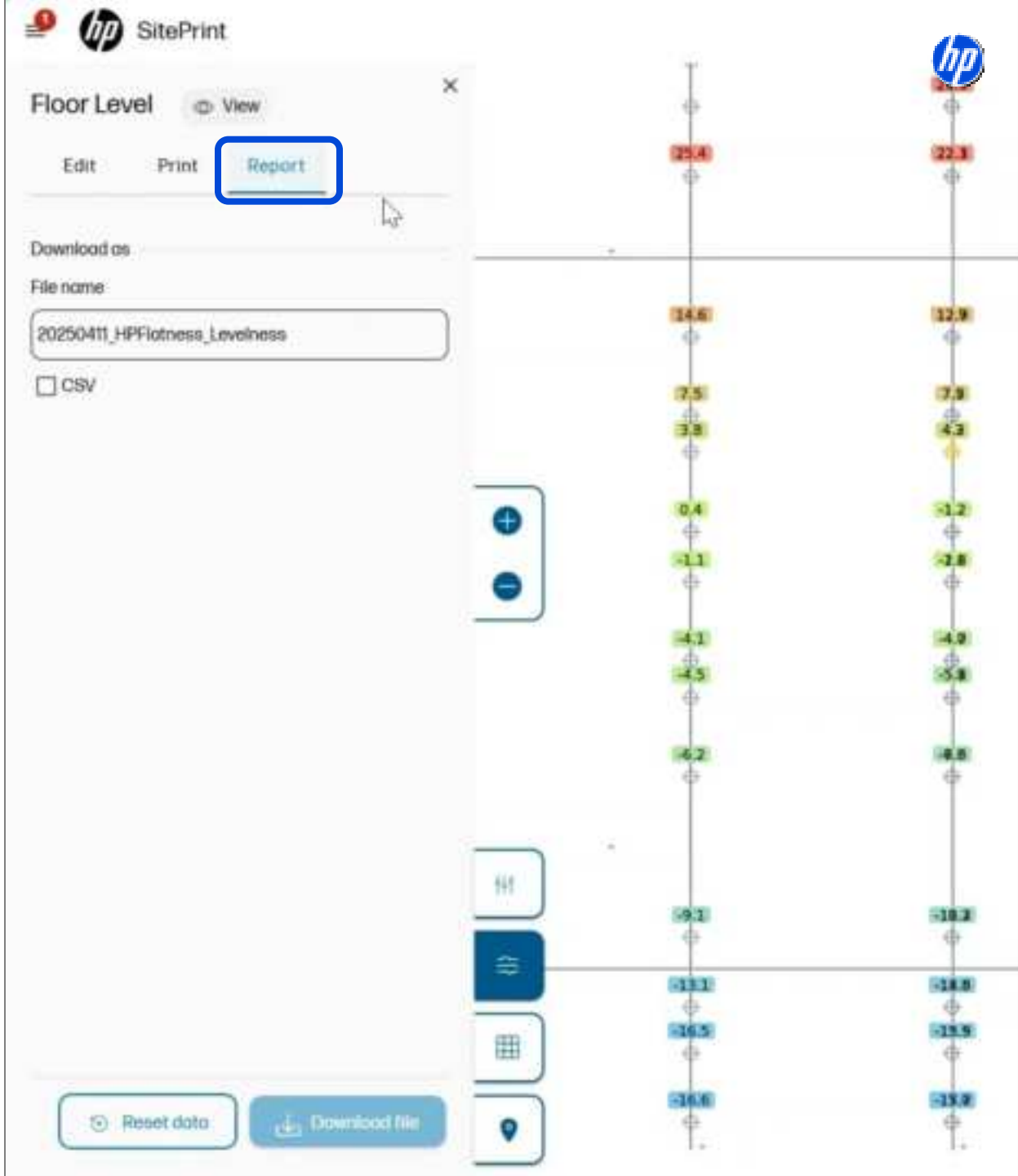
Dowload CSV file

---

Reset data

---

CSV report




# Download CSV reports

Download a CSV report with the floor level data, in case other documentation needs to be generated.

## Download CSV file

- Define output file name.
- Select the CSV checkbox.
- Click on Download file.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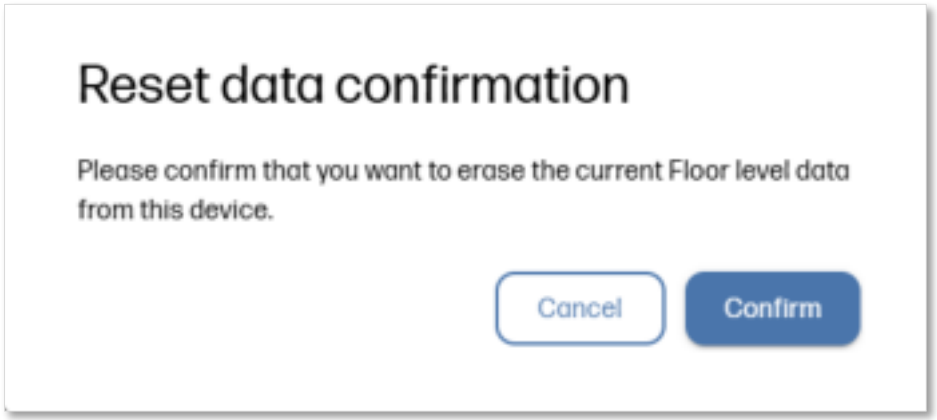
## Reset Data

- Remove the Floor level data captured in case it is not valid.
- This action is **not reversible**, the elevation information will be erased.



| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | HANDLE | X(m) | Y(m) | Z measured(m) | Z calculated(m) | TYPE |
| 2 | 7A7 | 5009.579 | 2002.1714 | 0.0181 | 0.0164 | point |
| 3 | 7A9 | 5009.5309 | 2001.9137 | 0.0173 | 0.0156 | point |
| 4 | 7AB | 5009.3118 | 2002.201 | 0.0192 | 0.0175 | point |
| 5 | 7AA | 5009.2637 | 2001.9508 | 0.0142 | 0.0125 | point |
| 6 | 7AF | 5008.05 | 2002.162 | 0 | -0.0017 | point |
| 7 | 7AD | 5008.0488 | 2002.4262 | 0.0035 | 0.0018 | point |
| 8 | 7BF | 5009.3127 | 2000.8014 | 0.0162 | 0.0145 | point |
| 9 | 7C0 | 5009.3127 | 2001.1014 | 0.0154 | 0.0137 | point |
| 10 | 7B8 | 5008.7127 | 2000.8014 | 0.0065 | 0.0048 | point |
| 11 | 7BA | 5008.7127 | 2000.5014 | 0.0092 | 0.0075 | point |
| 12 | 7B2 | 5007.5127 | 2000.8014 | -0.0067 | -0.0084 | point |
| 13 | 7B5 | 5008.1127 | 2000.8014 | -0.0016 | -0.0033 | point |
| 14 | 7BE | 5008.7127 | 2001.4014 | 0.0095 | 0.0078 | point |
| 15 | 7BB | 5006.9127 | 2001.4014 | -0.0079 | -0.0096 | point |
| 16 | 7BC | 5007.5127 | 2001.4014 | -0.004 | -0.0057 | point |
| 17 | 7BD | 5008.1127 | 2001.4014 | -0.0001 | -0.0018 | point |
| 18 | 7B7 | 5008.1127 | 2000.5014 | -0.0002 | -0.0019 | point |
| 19 | 7AC | 5007.7557 | 2002.3838 | 0.0012 | -0.0005 | point |
| 20 | 7AE | 5007.7416 | 2002.0955 | 0.0007 | -0.001 | point |
| 21 | 7B4 | 5007.5127 | 2000.5014 | -0.0078 | -0.0095 | point |
| 22 | 7C2 | 5006.3127 | 2000.5014 | -0.0118 | -0.0135 | point |
| 23 | 7C1 | 5006.3127 | 2000.8014 | -0.0118 | -0.0135 | point |
| 24 | 7C3 | 5006.3127 | 2001.1014 | -0.0092 | -0.0109 | point |
| 25 | 7B0 | 5006.9127 | 2001.1014 | -0.0082 | -0.0099 | point |
| 26 | 7B3 | 5007.5127 | 2001.1014 | -0.0054 | -0.0071 | point |
| 27 | 7F1 | 5008.7127 | 2001.1014 | 0.0064 | 0.0047 | point |
| 28 | 7F2 | 5008.1127 | 2001.1014 | -0.0016 | -0.0033 | point |
| 29 | 7F3 | 5006.9127 | 2000.5014 | -0.0005 | -0.0022 | point |
| 30 | 7F4 | 5006.9127 | 2000.8014 | -0.0115 | -0.0132 | point |
| 31 | 7F5 | 5008.0488 | 2002.4262 | 0.0035 | 0.0018 | point |
| 32 | 7F6 | 5009.3127 | 2000.8014 | 0.0162 | 0.0145 | point |
| 33 | 7F7 | 5009.3127 | 2001.1014 | 0.0154 | 0.0137 | point |
| 34 | 7F8 | 5008.7127 | 2000.8014 | 0.0065 | 0.0048 | point |
| 35 | 7F9 | 5008.7127 | 2000.5014 | 0.0092 | 0.0075 | point |
| 36 | 7FA | 5007.5127 | 2000.8014 | -0.0067 | -0.0084 | point |
| 37 | 7FB | 5008.1127 | 2000.8014 | -0.0016 | -0.0033 | point |
| 38 | 7FC | 5008.7127 | 2001.4014 | 0.0095 | 0.0078 | point |
| 39 | 7FD | 5006.9127 | 2001.4014 | -0.0079 | -0.0096 | point |
| 40 | 7FC | 5008.1127 | 2000.5014 | -0.0002 | -0.0019 | point |
| 41 | 7FF | 5007.7557 | 2002.3838 | 0.0012 | -0.0005 | point |
| 42 | 8F1 | 5007.7416 | 2002.0955 | 0.0007 | -0.001 | point |
| 43 | 8F2 | 5007.5127 | 2000.5014 | -0.0078 | -0.0095 | point |
| 44 | 8F3 | 5006.3127 | 2000.5014 | -0.0118 | -0.0135 | point |
| 45 | 8F4 | 5006.3127 | 2000.8014 | -0.0118 | -0.0135 | point |
| 46 | 8F5 | 5006.3127 | 2001.1014 | -0.0092 | -0.0109 | point |

# Download CSV reports

Download a CSV report with the floor level data, in case other documentation needs to be generated.

## Download CSV file

- Define output file name.
- Select the CSV checkbox.
- Click on Download file.

## Reset Data

- Remove the Floor level data captured in case it is not valid.
- This action is **not reversible**, the elevation information will be erased.

## CSV Report

- The CSV report contains:
  - HANDLE ID for each CAD point.
  - Original X and Y coordinates from CAD file for each point.
  - Z coordinate measured by HP SitePrint.
  - Z coordinate calculated according to the defined edition settings (Reference plane, reference plane offset, range…).

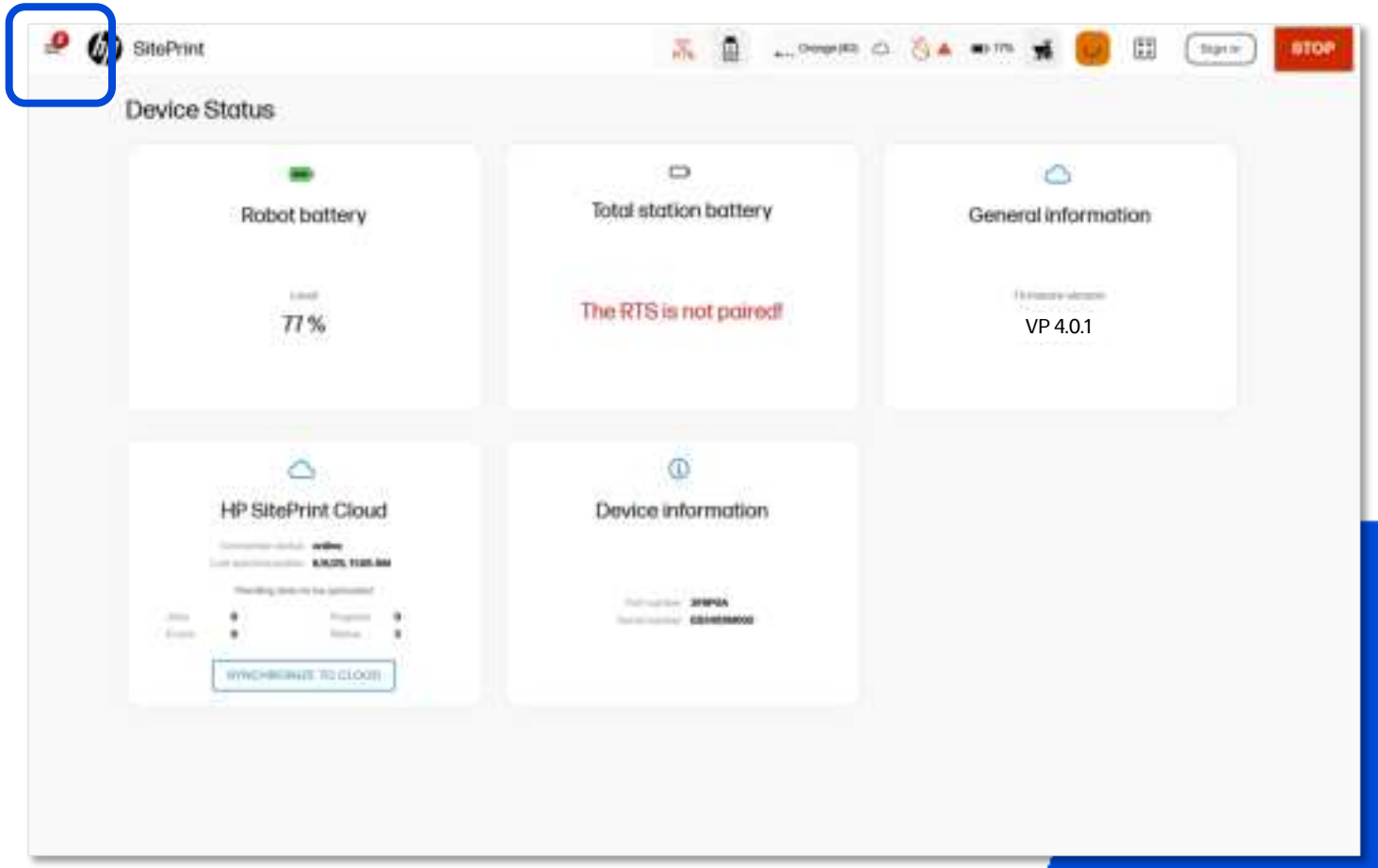
# Floor Level Units

Select the unit system that you prefer.

# Floor Level Units

Select the unit system that you prefer.

01 Click on the top-left menu ☰

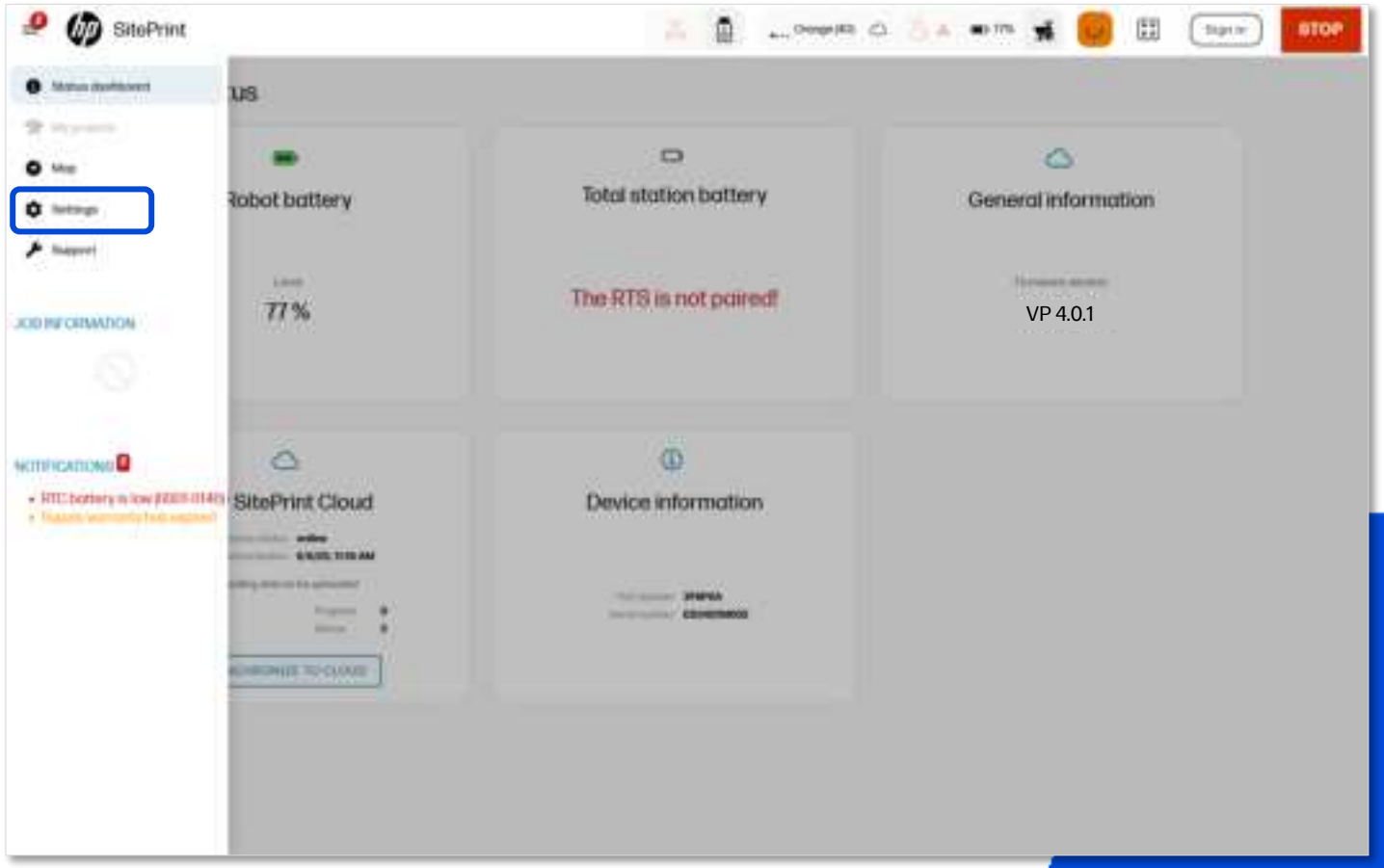


# Floor Level Units

Select the unit system that you prefer.

01 Click on the top-left menu

02 Select the **Settings** menu



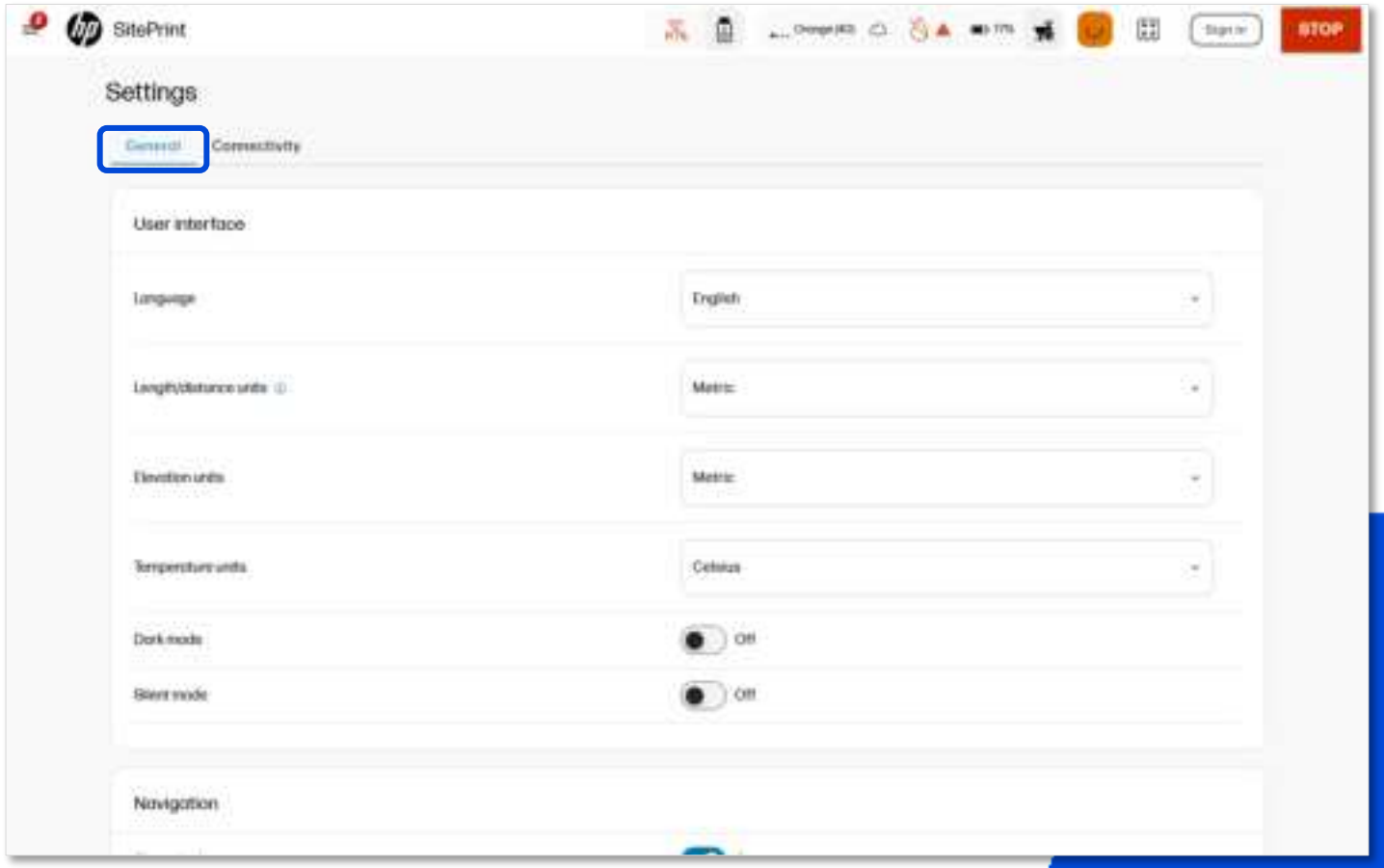
# Floor Level Units

Select the unit system that you prefer.

01 Click on the top-left menu

02 Select the **Settings** menu

03 Select the **General** tab



# Floor Level Units

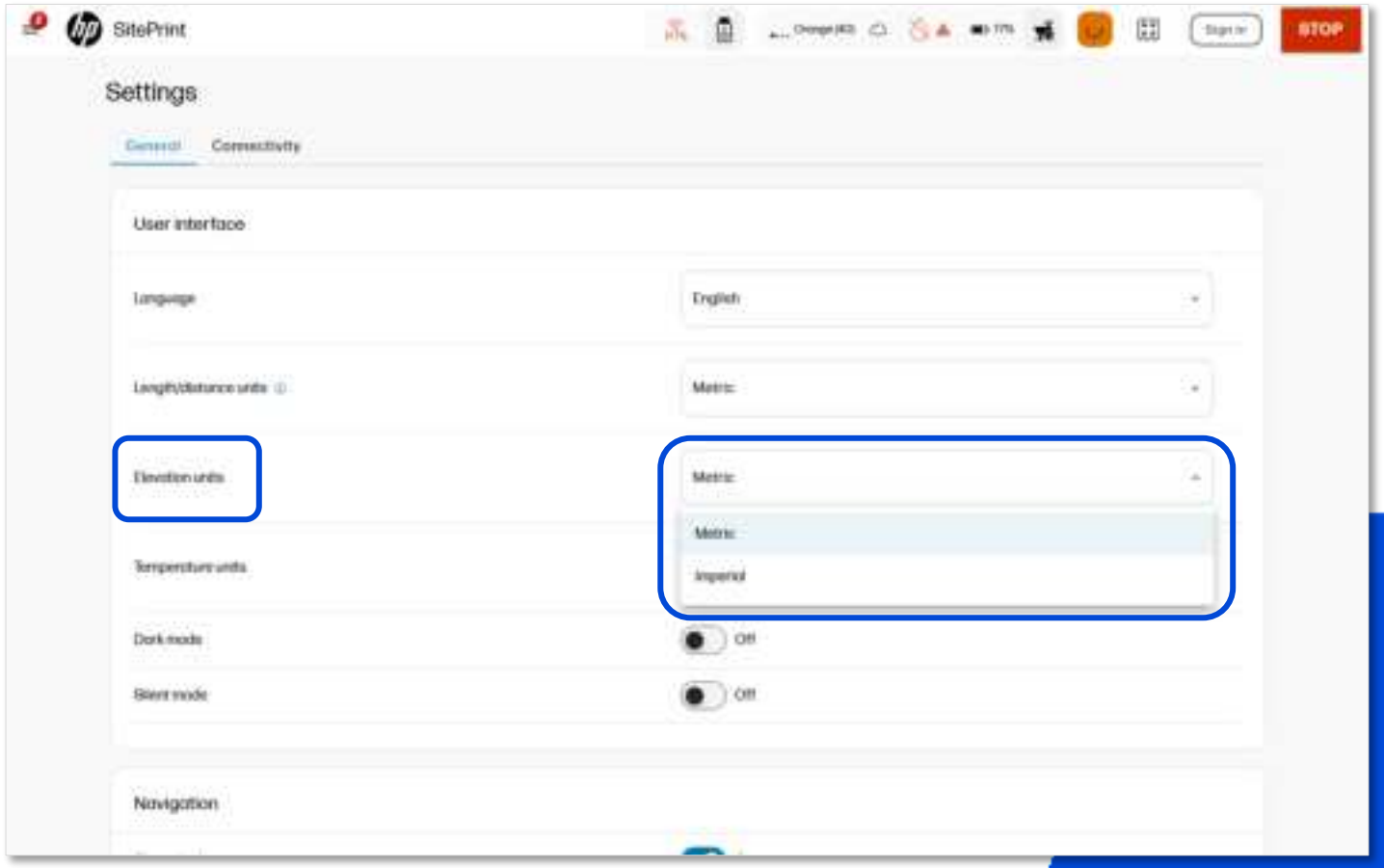
Select the unit system that you prefer.

01 Click on the top-left menu

02 Select the **Settings** menu

03 Select the **General** tab

04 On the **Elevation** units, select Imperial or Metric



# Floor Level Units

Units set to **Imperial**

## Tags display format

- By default, tags display values in fraction of an inch, with a resolution of 1/32” (0.8 mm).

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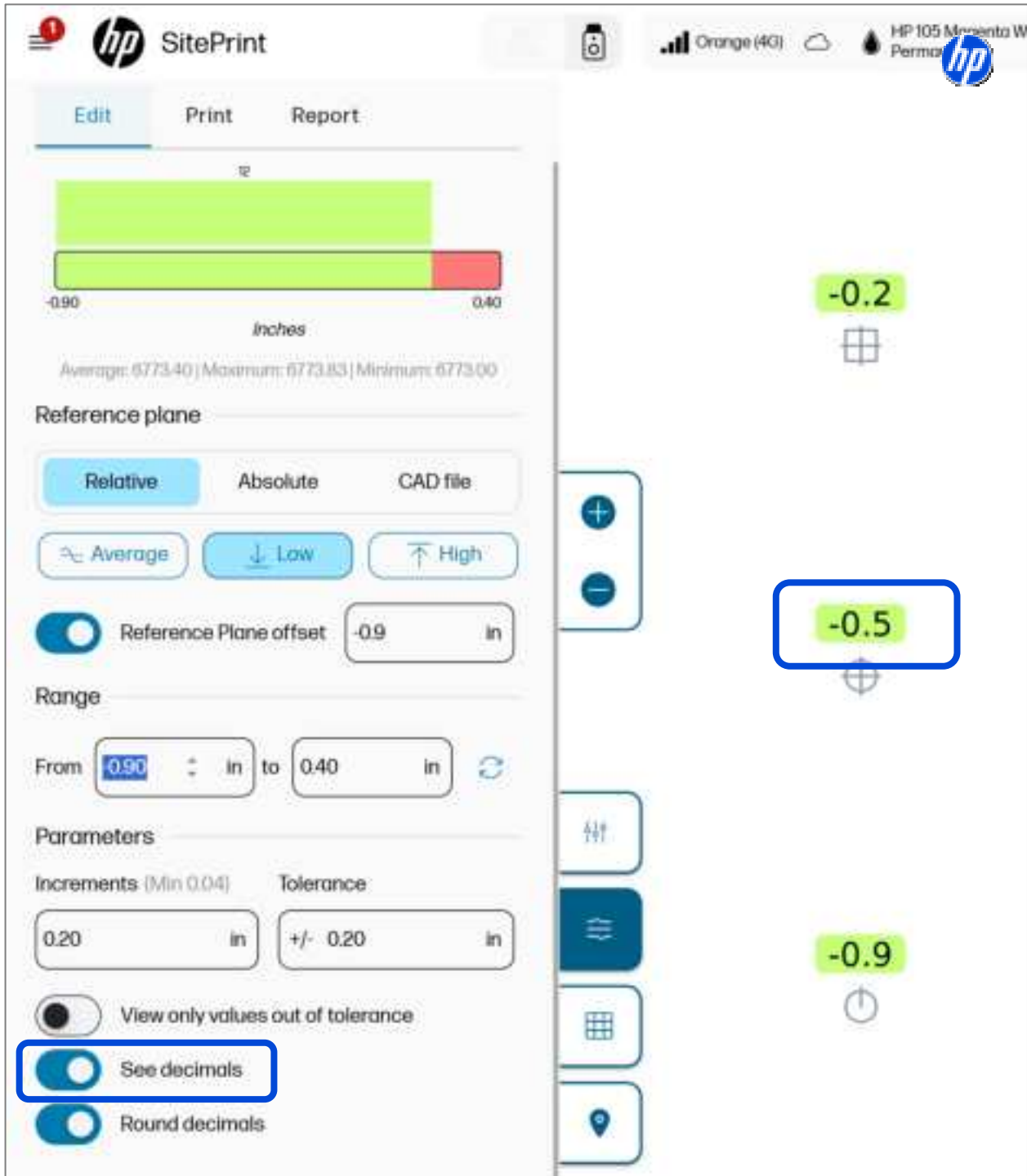
Units set to **Imperial**

## Tags display format

- By default, tags display values in fraction of an inch, with a resolution of 1/32” (0.8 mm).
- Optionally, values can be rounded up to 1/16”.

## See decimals

- Enables to display values in inches with decimal format instead of fractions.
- Default precision is 2 decimals (0.01” / 0.25 mm).
- Values can be rounded up to 1 decimal (0.1” / 2.5 mm)

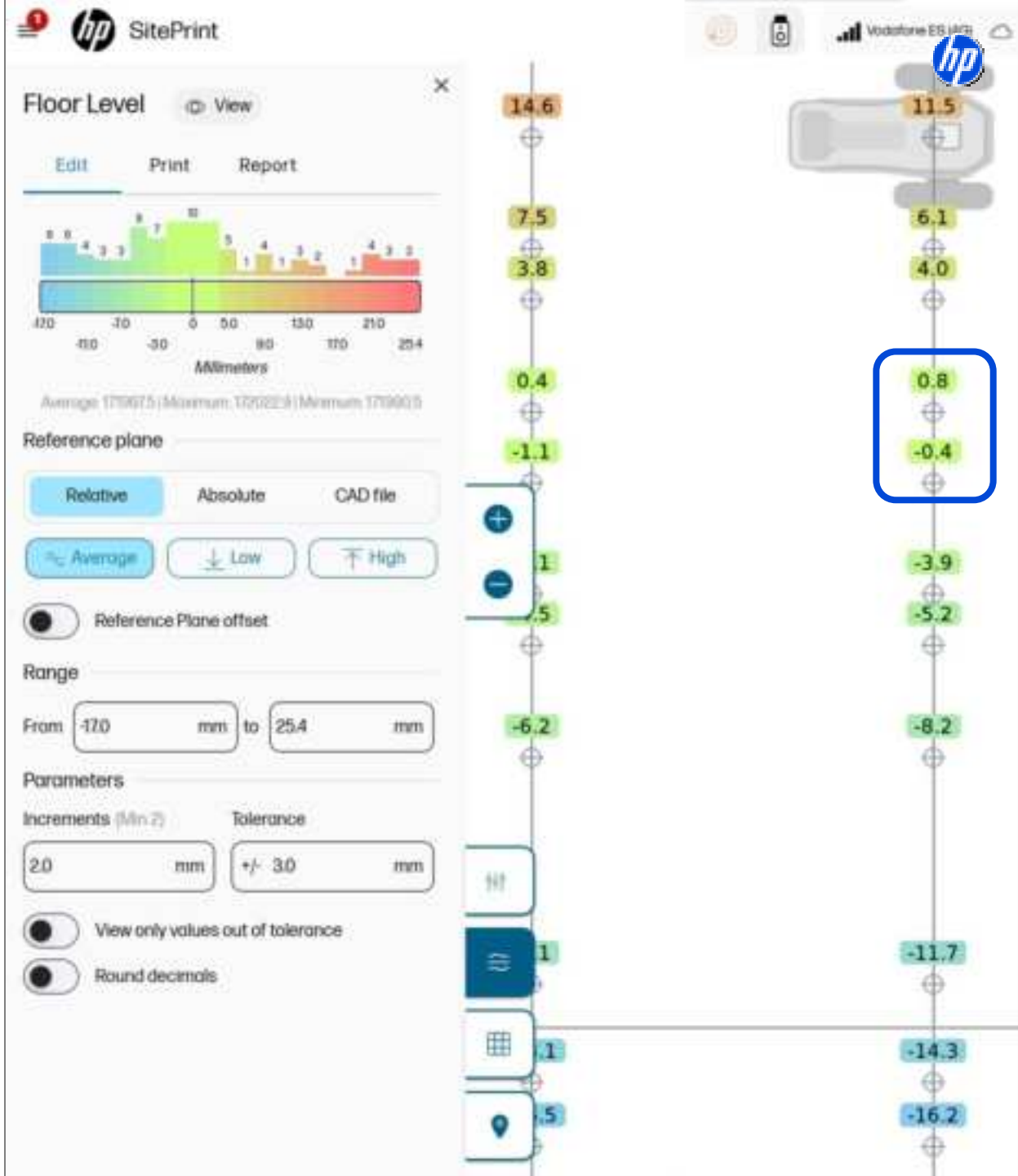


# Floor Level Units

Units set to **Metric**

## Tags display format

- By default, tags display values in millimeters, with a resolution of 0.1 mm.

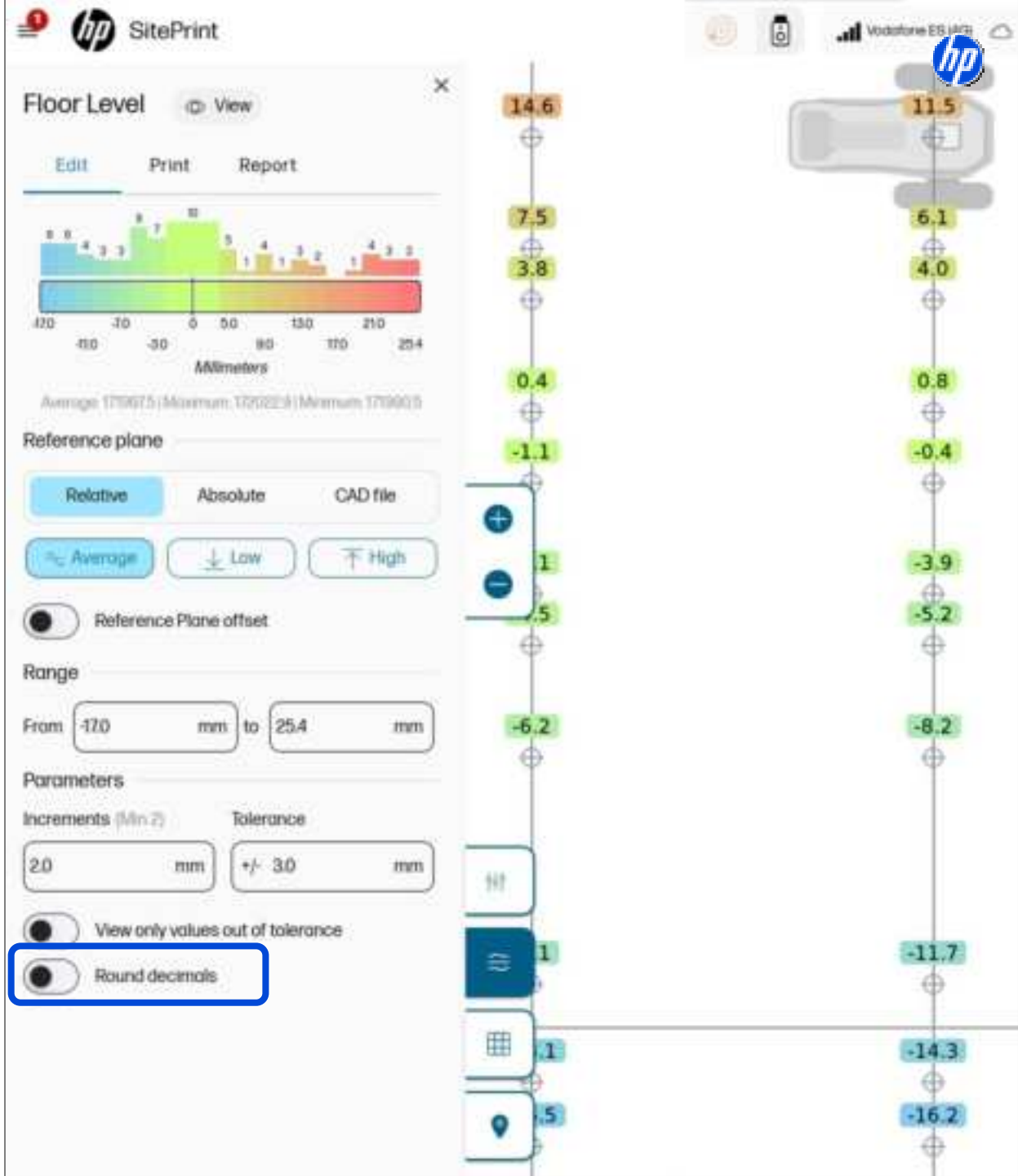


# Floor Level Units

Units set to **Metric**

## Tags display format

- By default, tags display values in millimeters, with a resolution of 0.1 mm.
- Optionally, values can be rounded up to 1 mm.



# Floor Level Service
# SitePrint Cloud

# Floor Level – SP Cloud

Access the floor level information from the SitePrint Cloud, anywhere, anytime

Access Floor Level data from the cloud

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Visualize the Floor Level data

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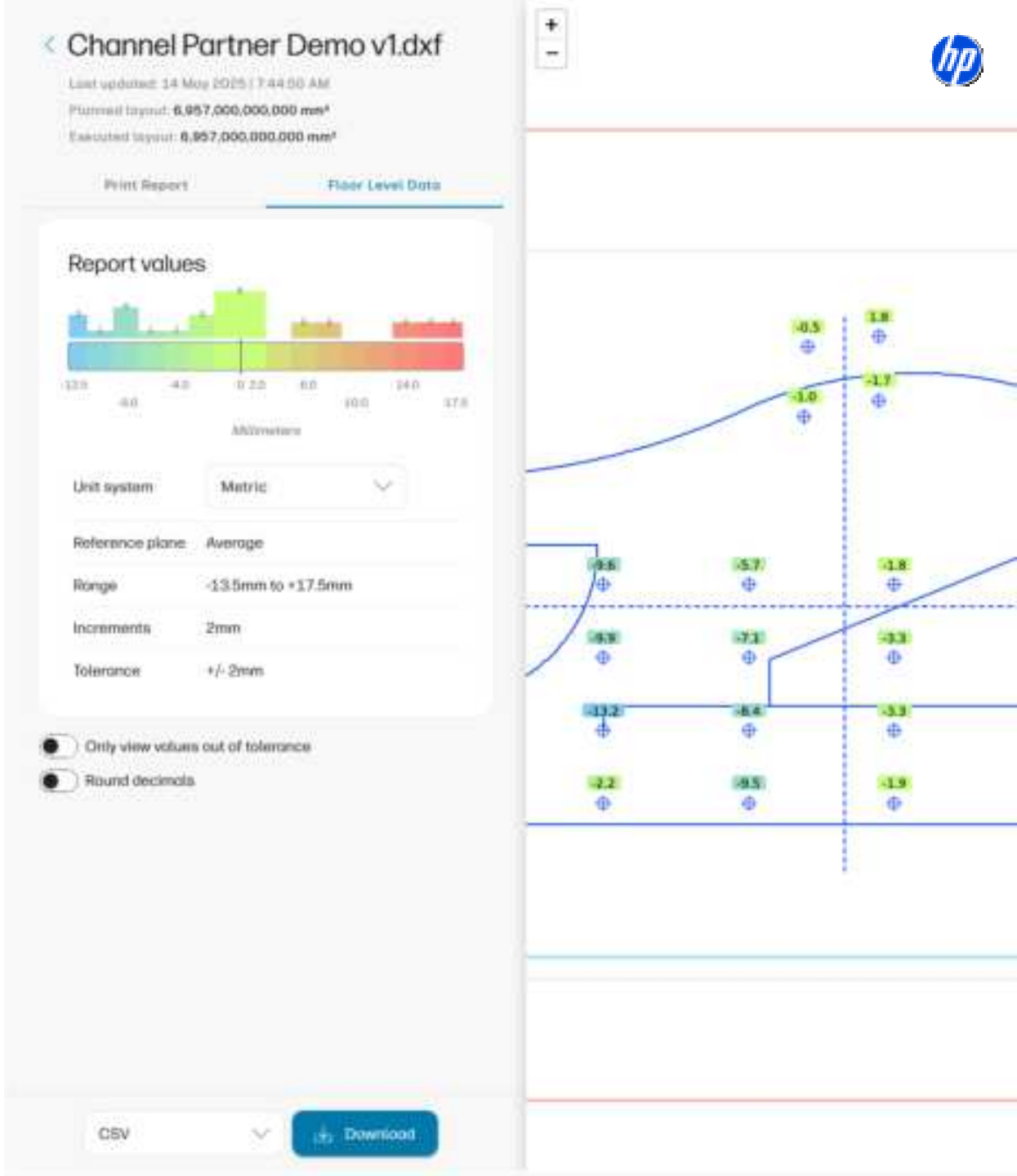
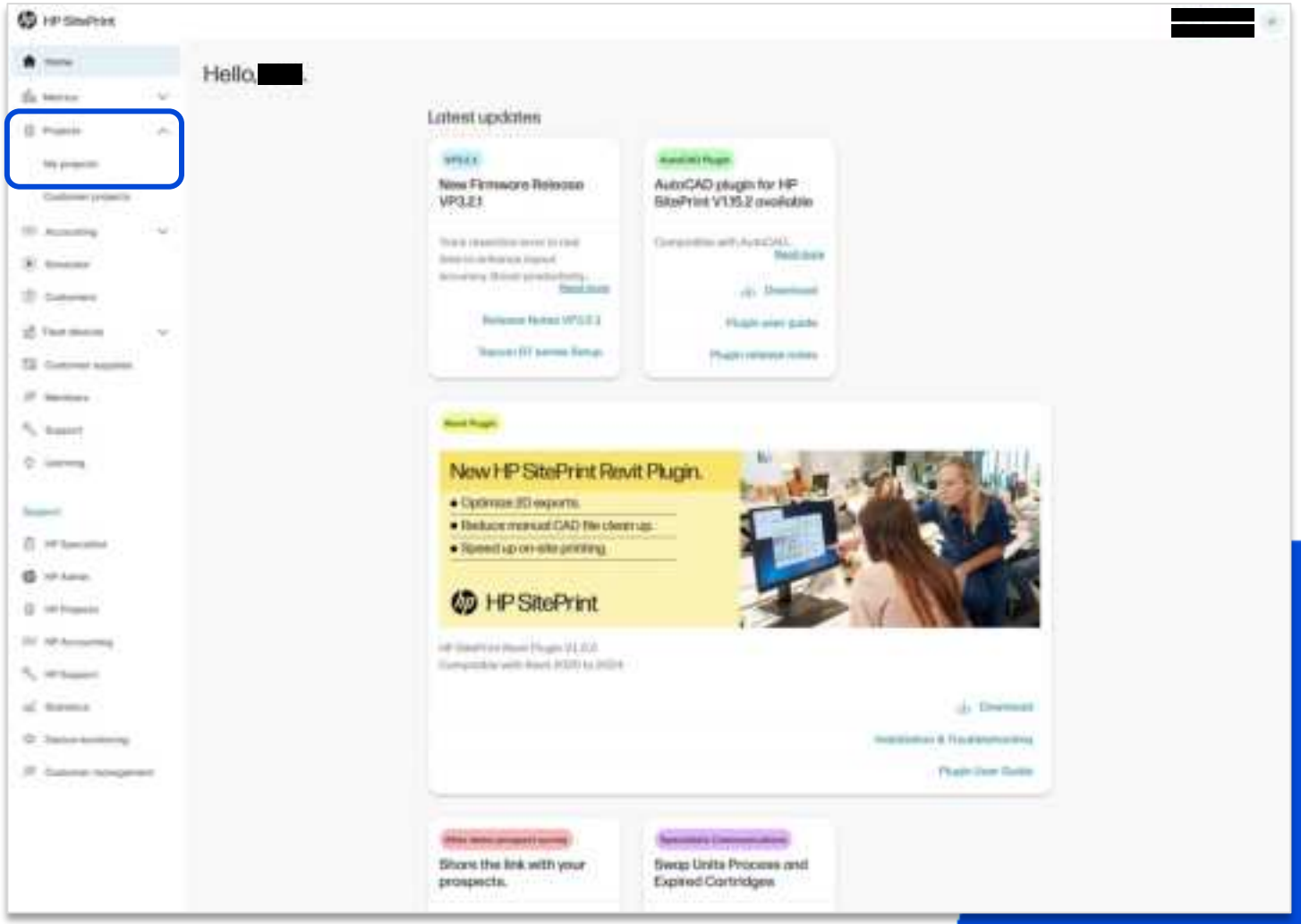
Download a CSV report



# Access Floor Level data from the cloud

Select the project you want to check

01 Select your project

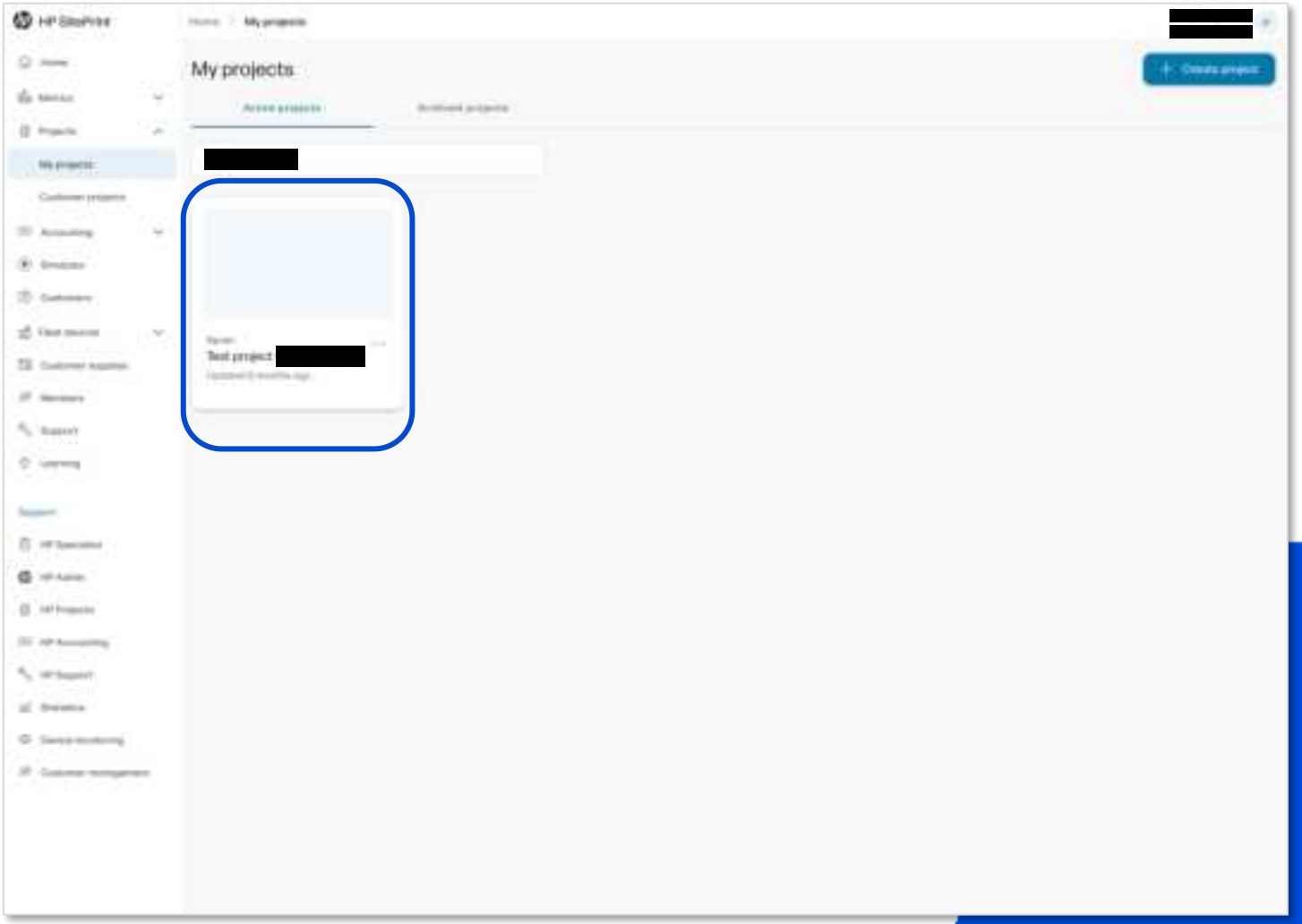


# Access Floor Level data from the cloud

Select the project you want to check

01 Select your project

02 Select a file in the project



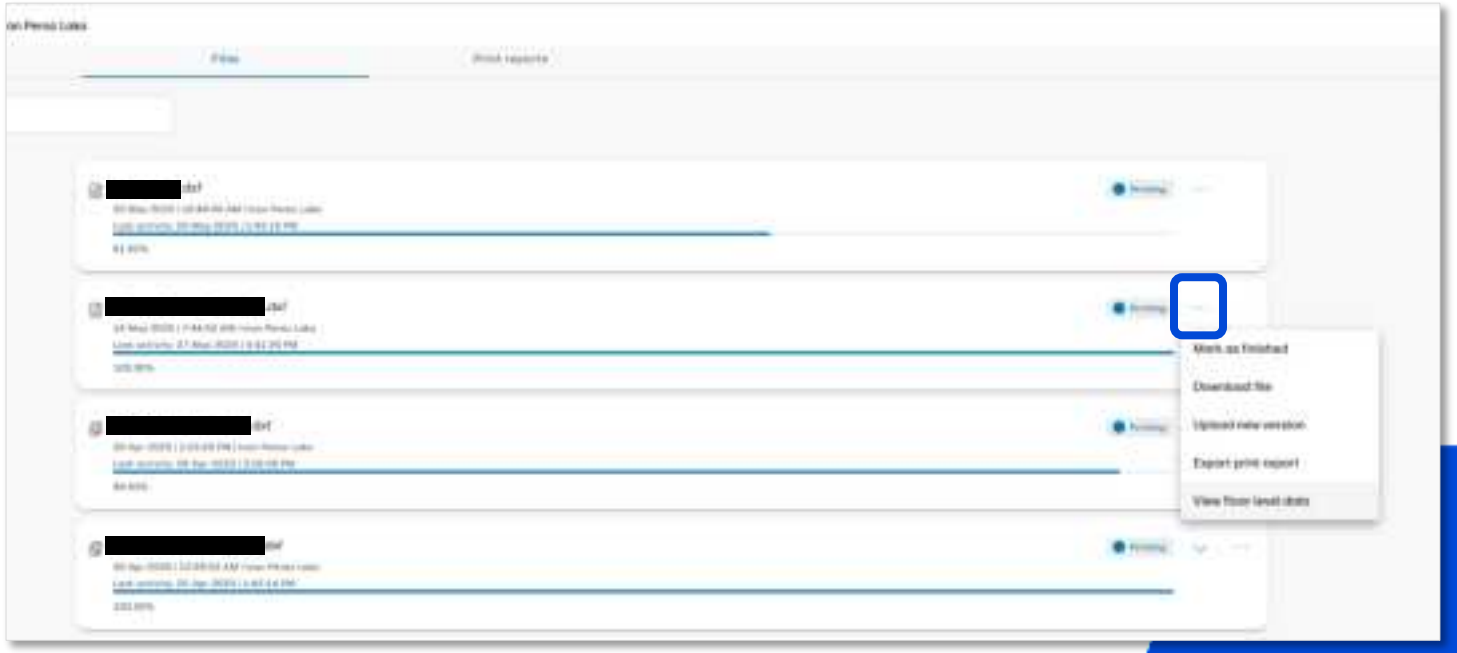
# Access Floor Level data from the cloud

Select the project you want to check

01 Select your project

02 Select a file in the project

03 Click on the right menu •••



# Access Floor Level data from the cloud

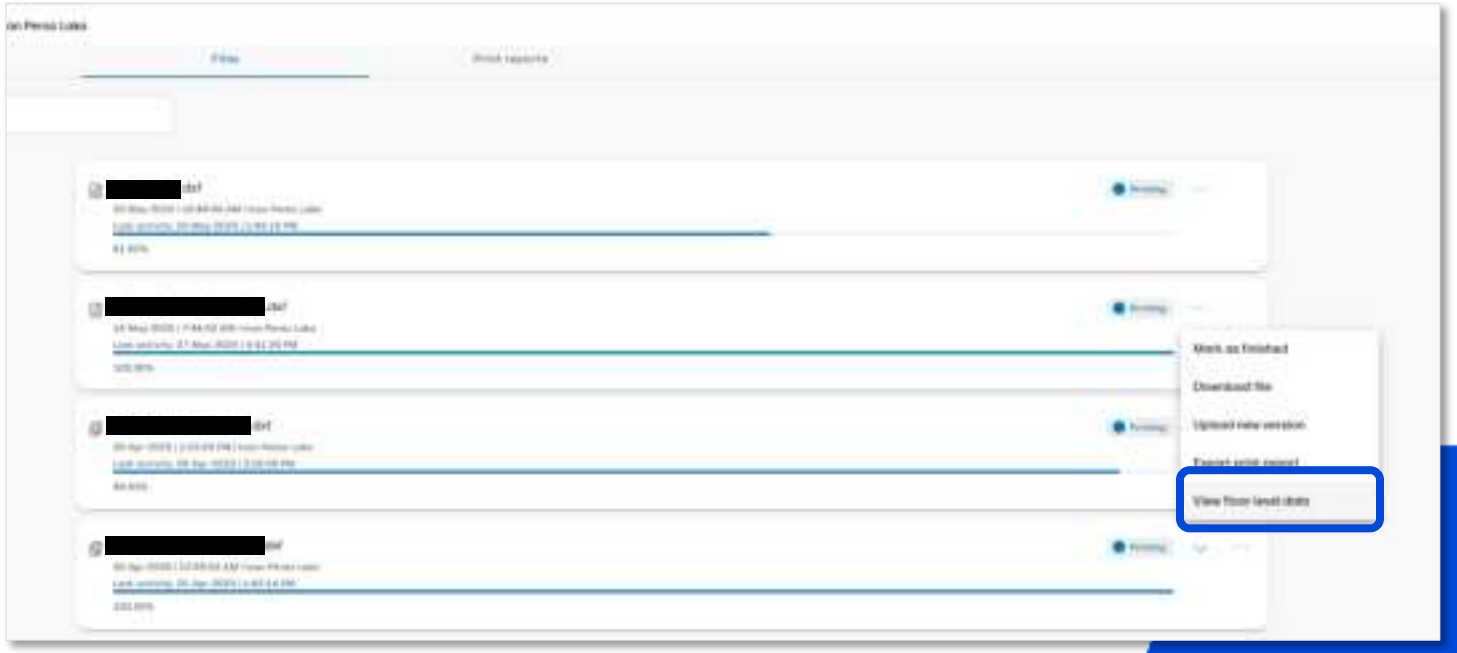
Select the project you want to check

01 Select your project

02 Select a file in the project

03 Click on the right menu •••

04 Click on “View floor level data”

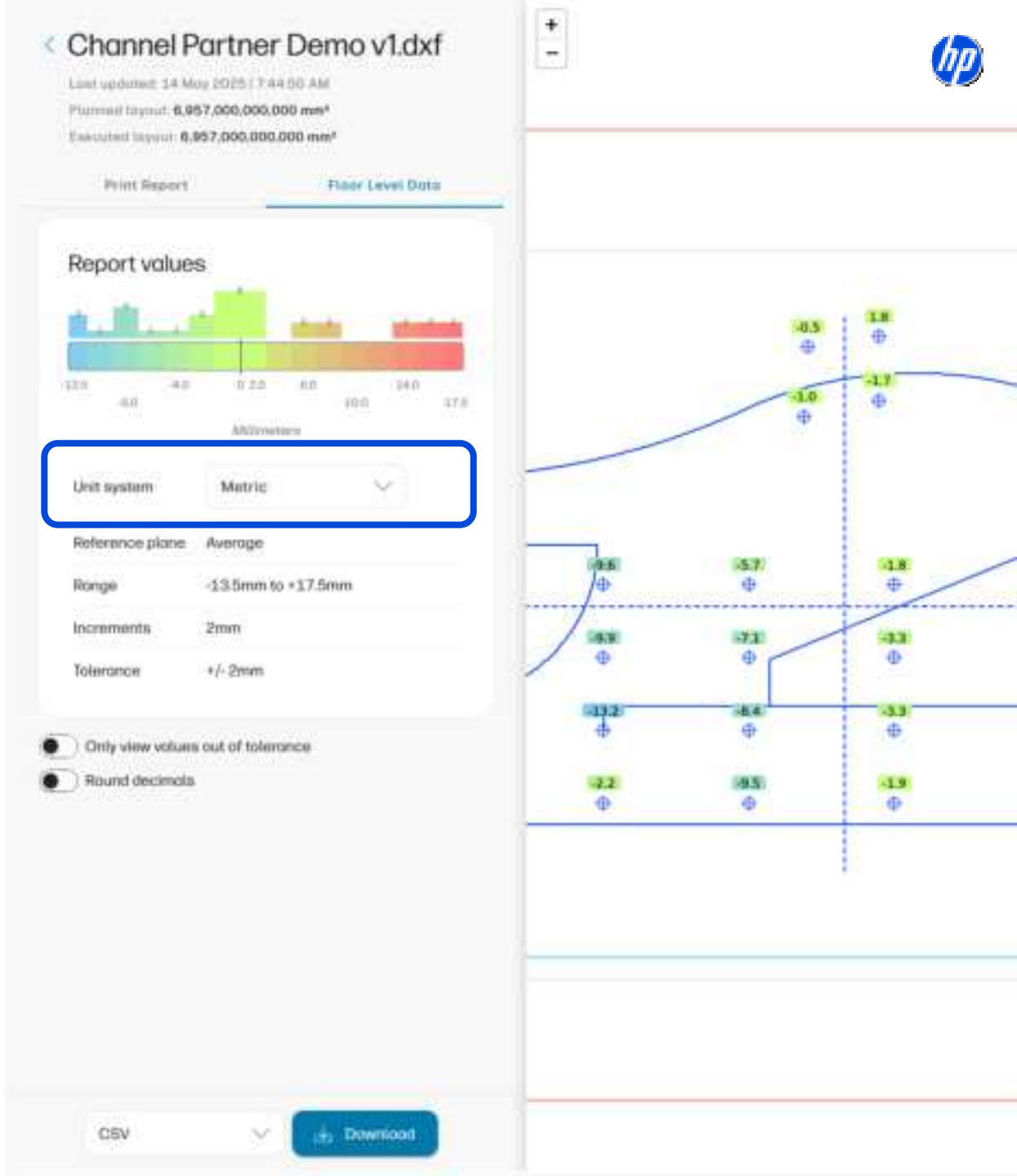


# Visualize Floor Level data

Customize the visualization from the Cloud portal

## Units system

- Choose between Metric or Imperial Systems.



# Visualize Floor Level data

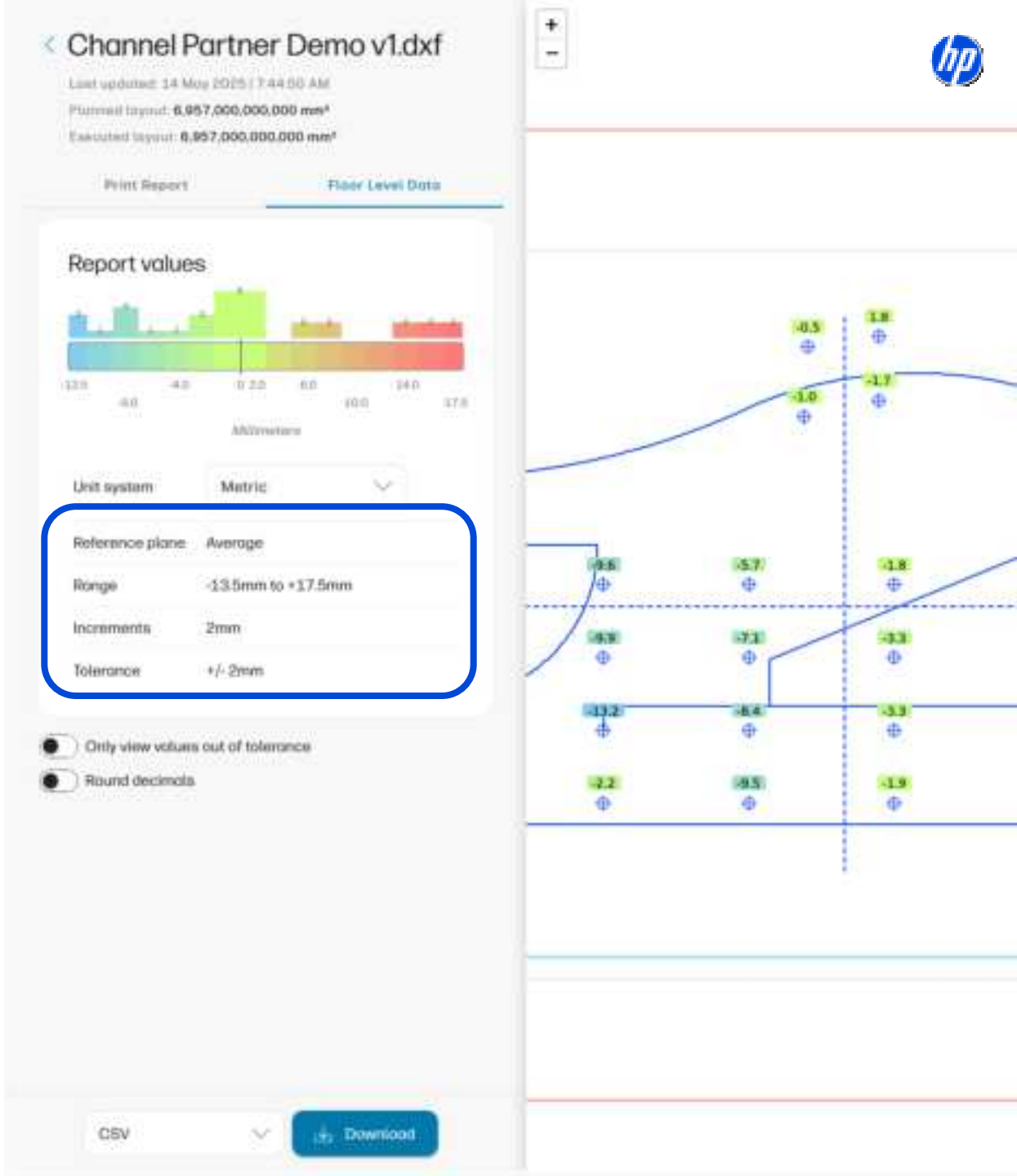
Customize the visualization from the Cloud portal

## Units system

- Choos between Metric or Imperial Systems.

## Visualization setting

- In the SitePrint cloud the visualization settings are not editable.
- Reference plane: By default, set to average.
- Range: Full data range measured.
- Increments: By default, 2 mm or 0.04 in
- Tolerance: By default, +/-2 mm or +/- 0.08in



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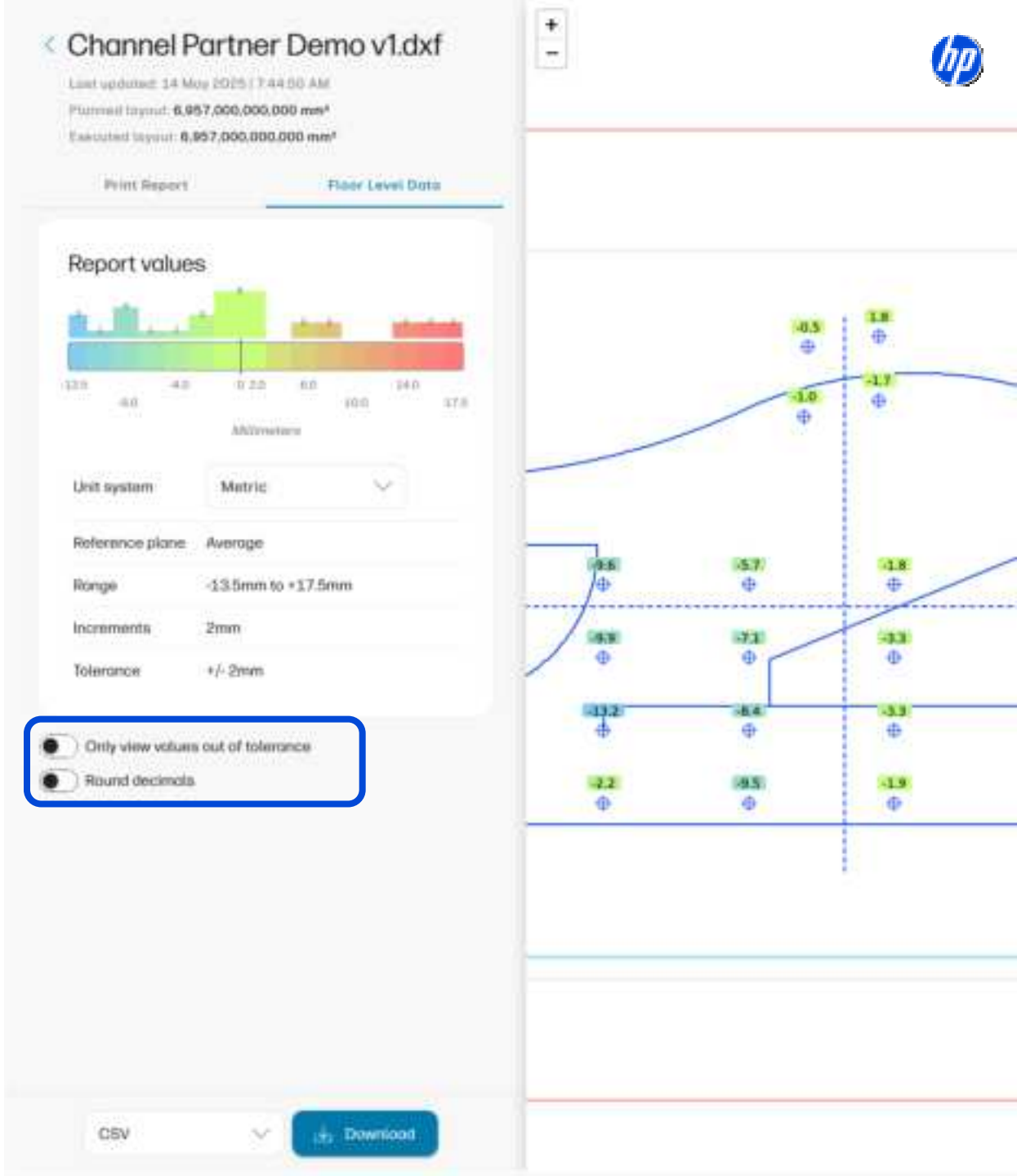
## Visualization toggles

- Only view values out of tolerances, show only elevation measurements falling out the tolerance range.
- Round decimals: Round up the measure value



# Download CSV report

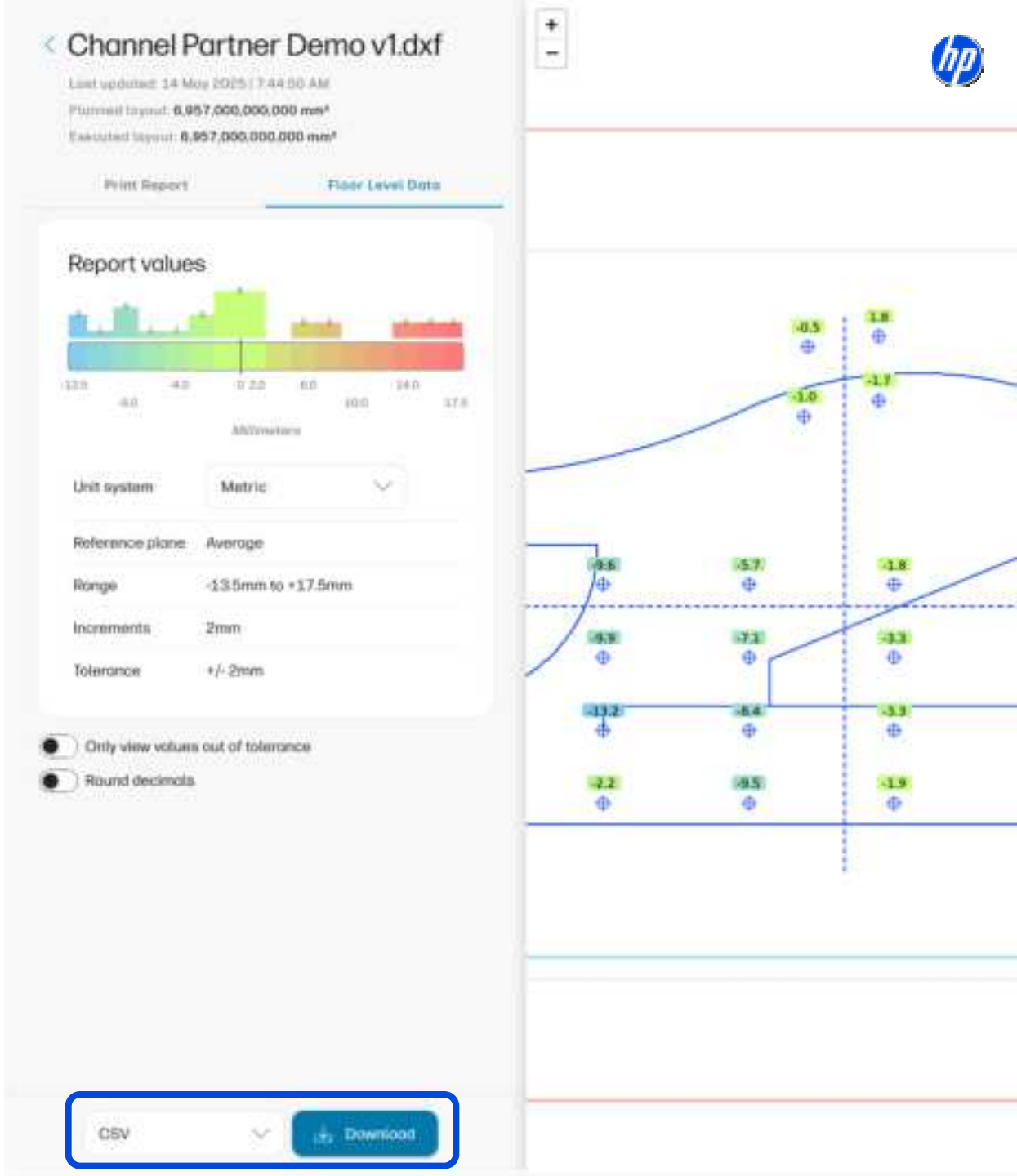
Download a CSV report with the floor level data, in case other documentation needs to be generated.

## Download CSV file

- Select the CSV checkbox.
- Click on Download file.

## CSV Report

- The CSV report contains:
  - HANDLE ID for each CAD point.
  - Original X and Y coordinates from CAD file for each point.
  - Z coordinate measured by HP SitePrint.
  - Z coordinate calculated according to the defined edition settings (Reference plane, reference plane offset, range…).



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