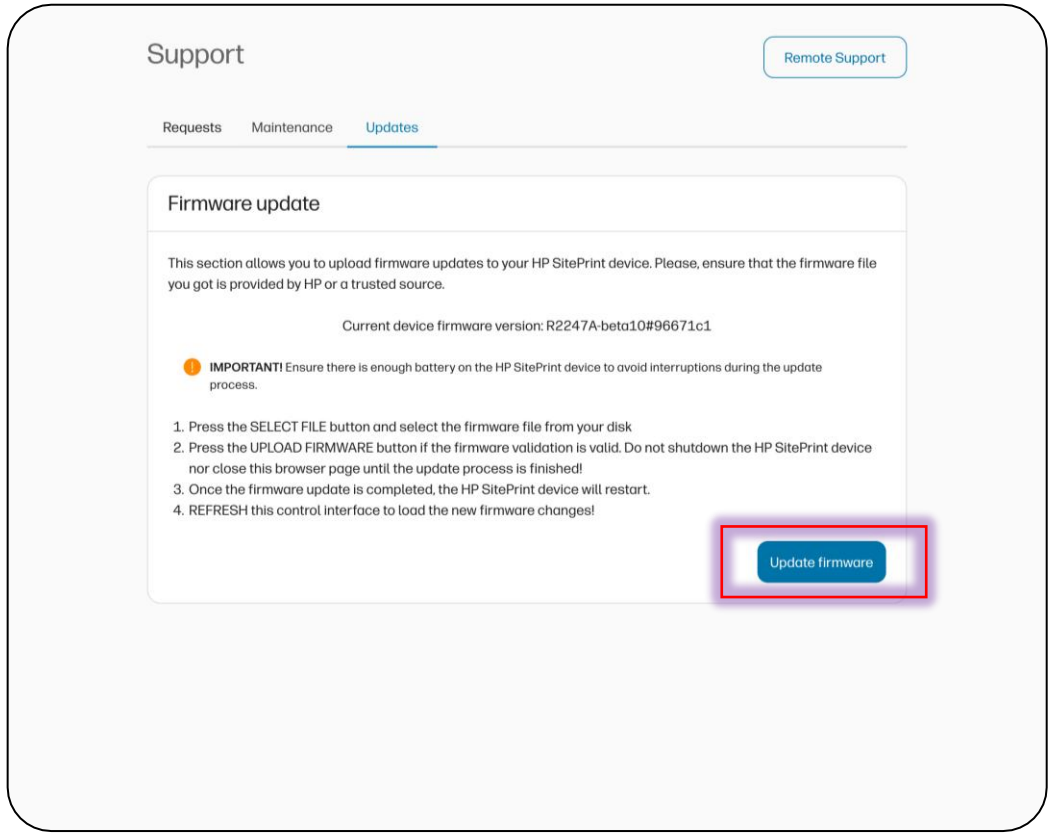
HP SitePrint Floor Level

How to use it

How to use SitePrint Floor Level Service

1

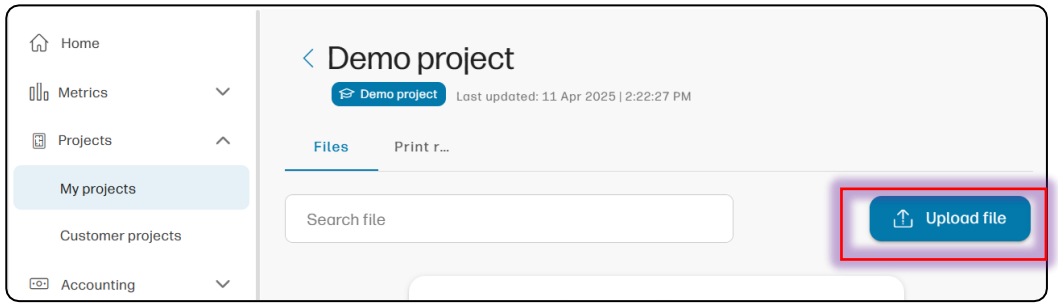
Update your robot FW to VP4.0.1
(Compatible with all installed base)



How to use SitePrint Floor Level Service

2

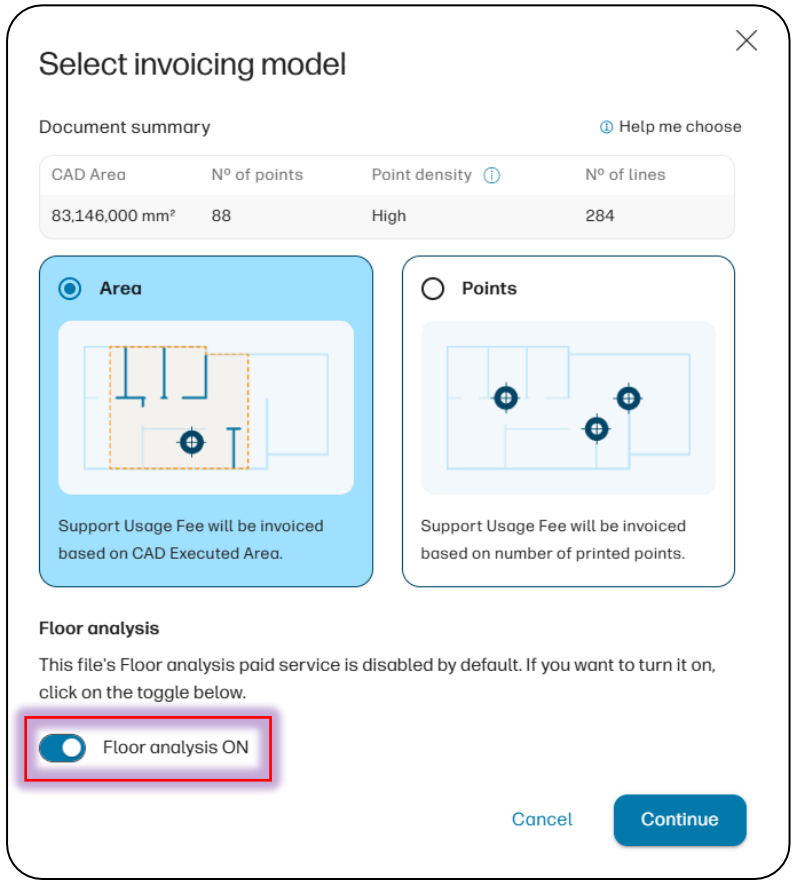
Upload the CAD to the SitePrint Cloud



How to use SitePrint Floor Level Service

3

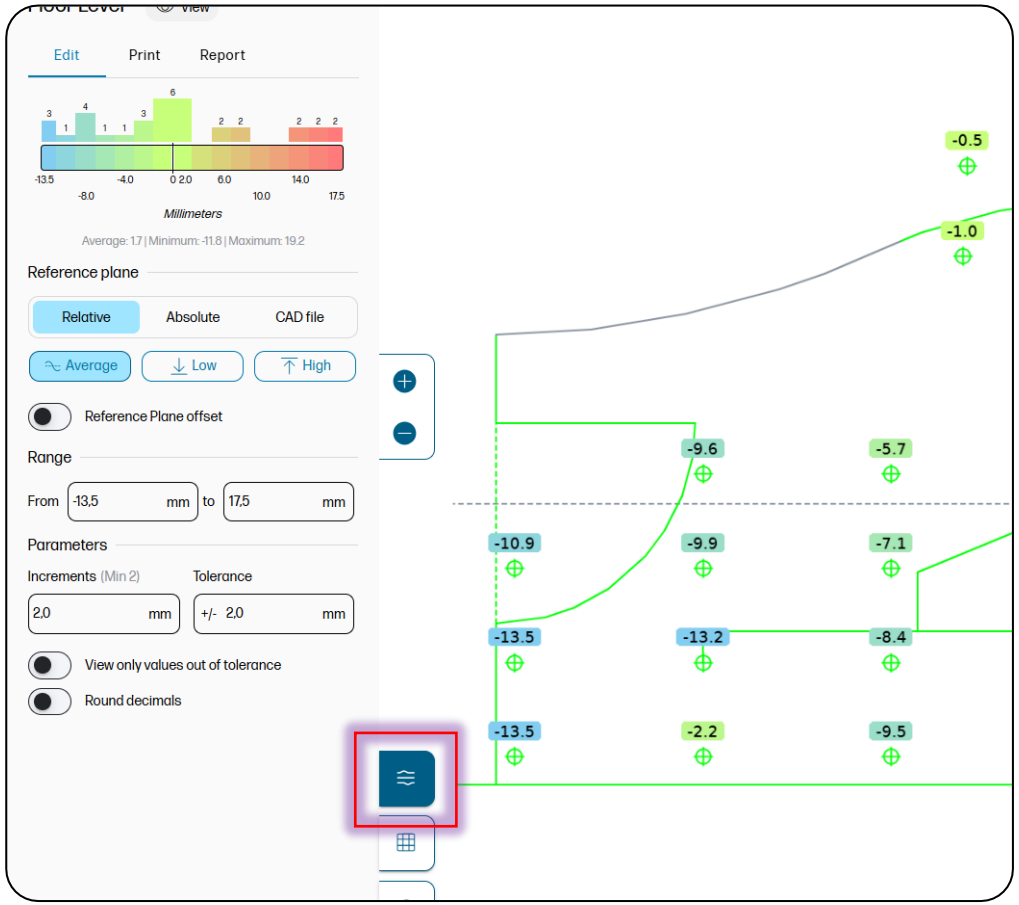
Opt in to the Floor Level Service: “Floor analysis ON”



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.

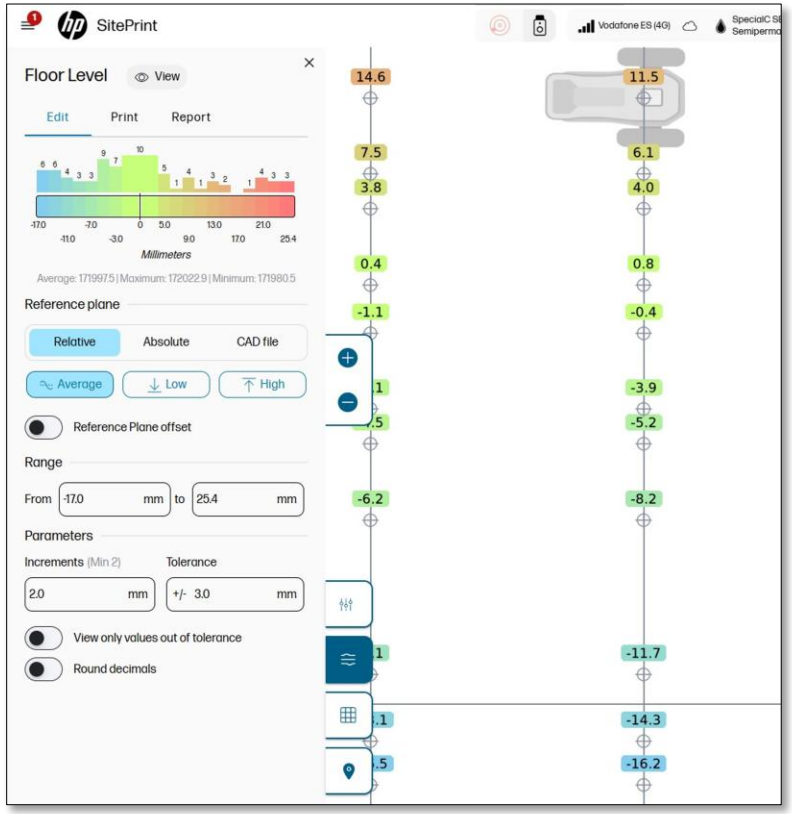


Floor Level Service Control Panel

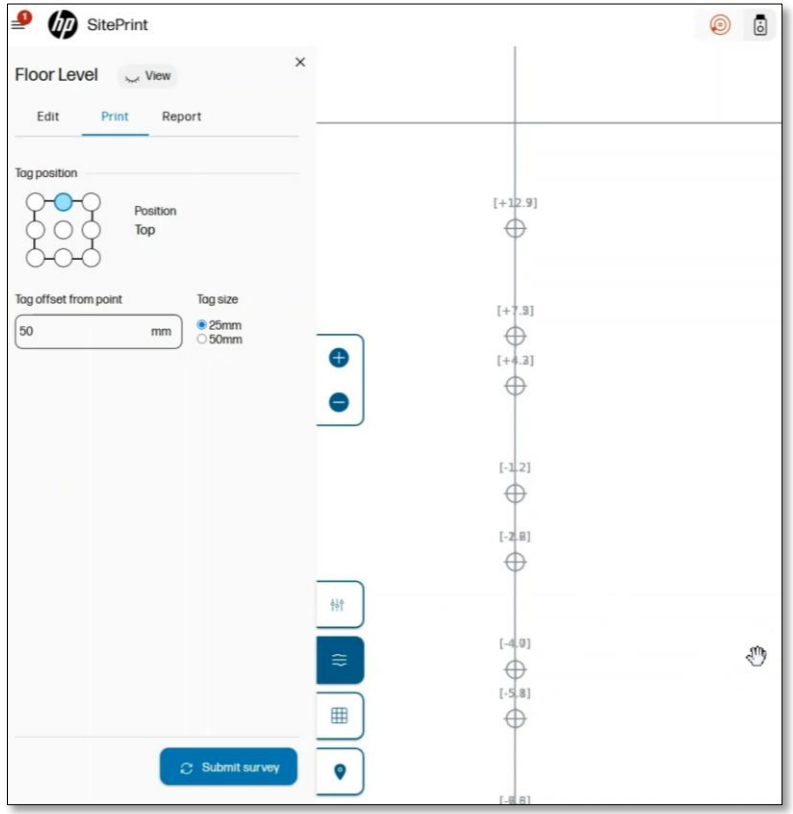
Floor Level – Control Panel

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

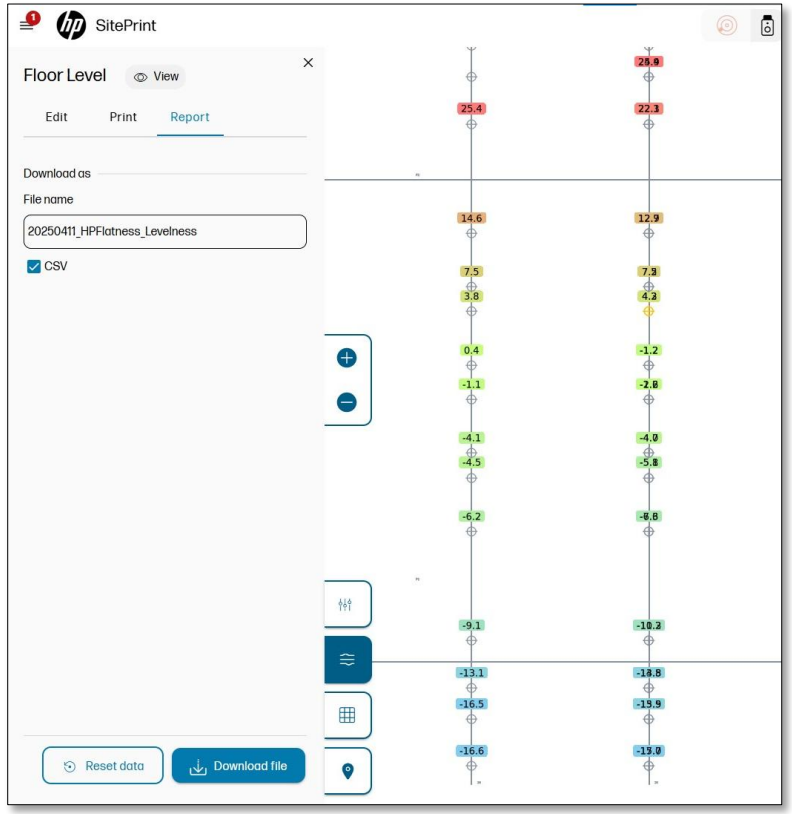
Edit



Print



Report



Edition Tab

Customize the Floor level visualization according to your needs

Edition Tab

Customize the Floor level visualization according to your needs

Reference Plane Options

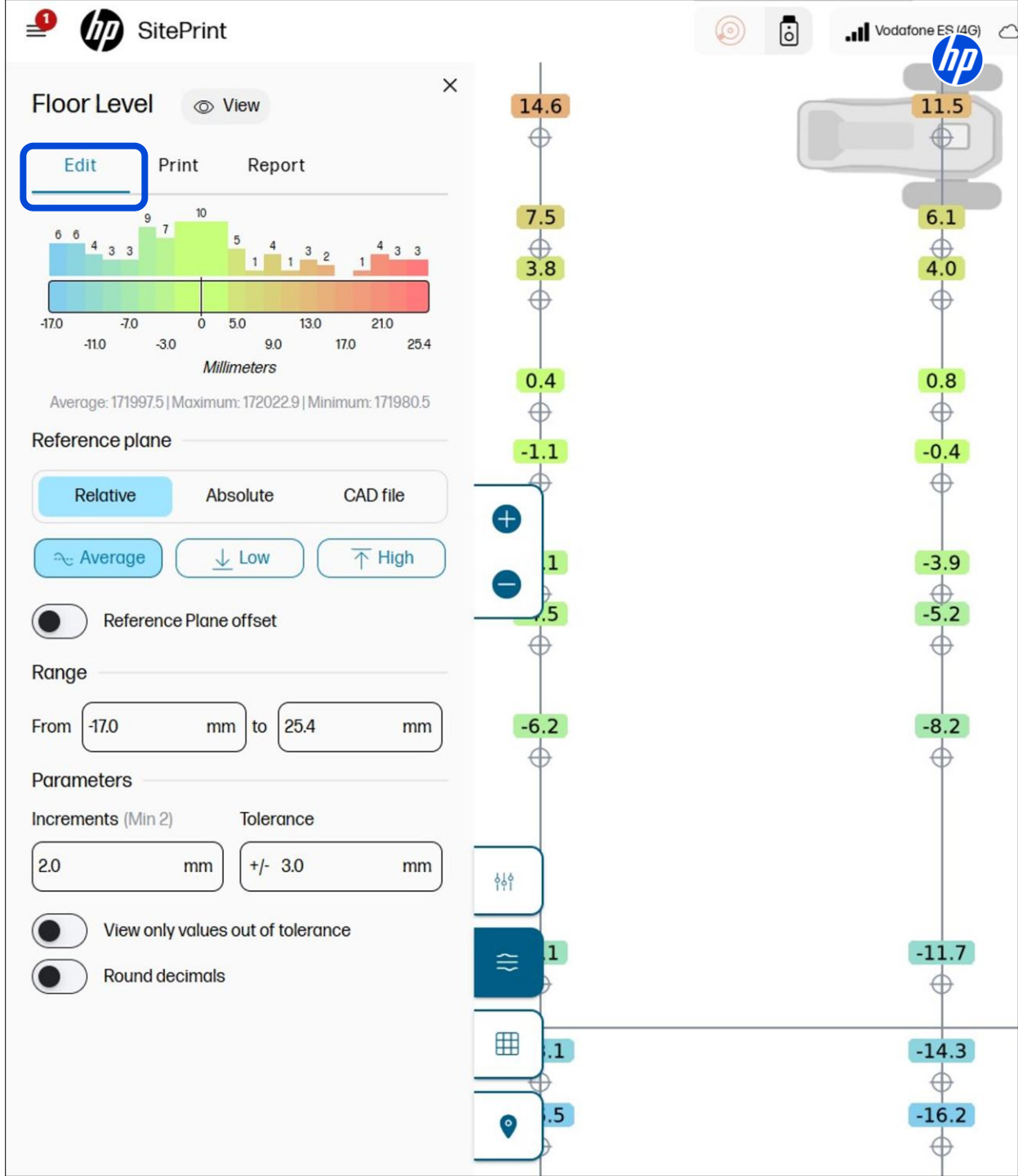
Data Range

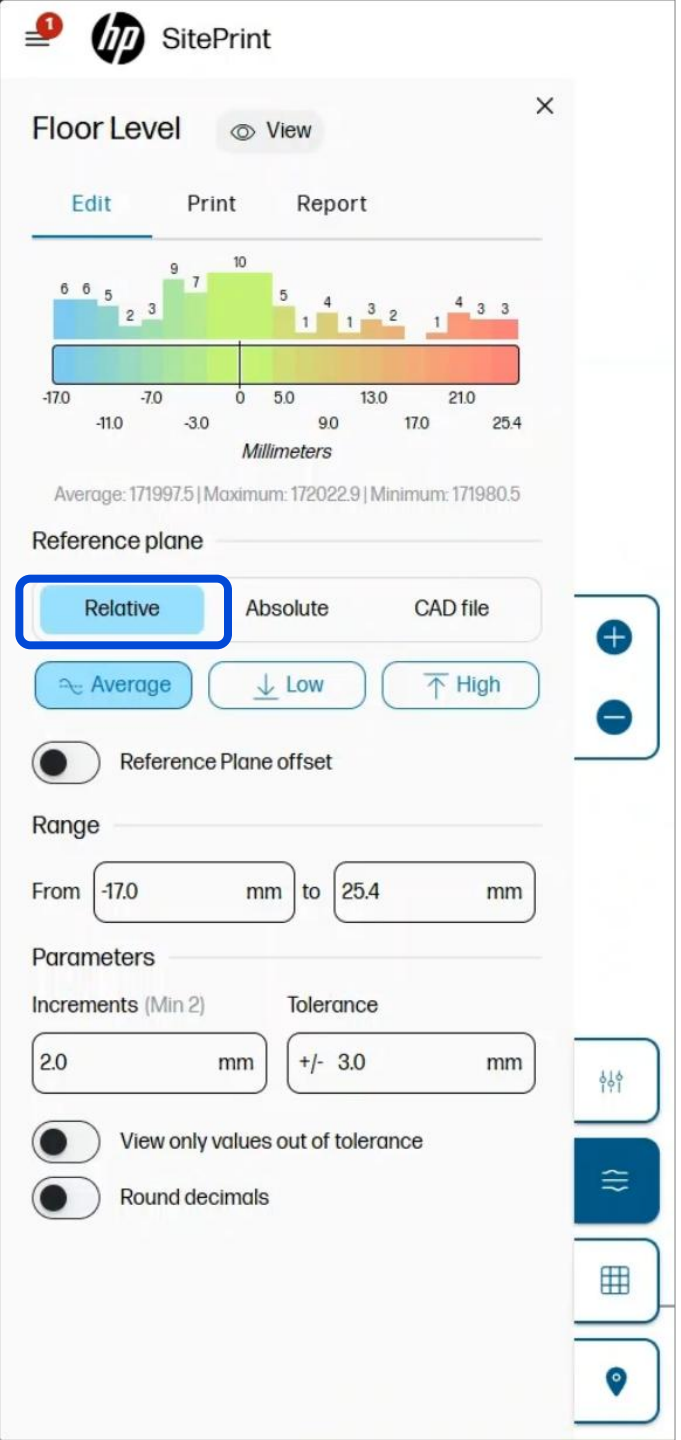
Increments

Tolerance Acceptability

View values out of tolerance

Round decimals

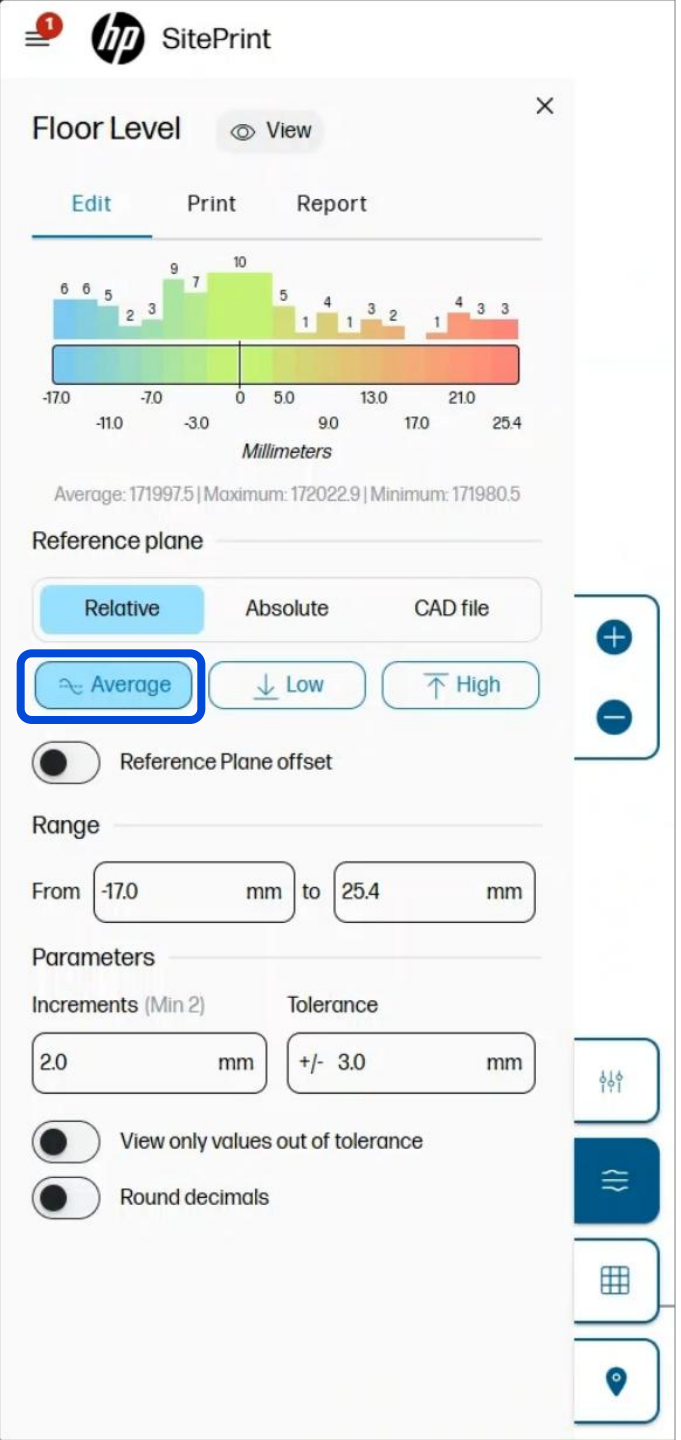




Reference Plane Options

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

Relative reference plane options

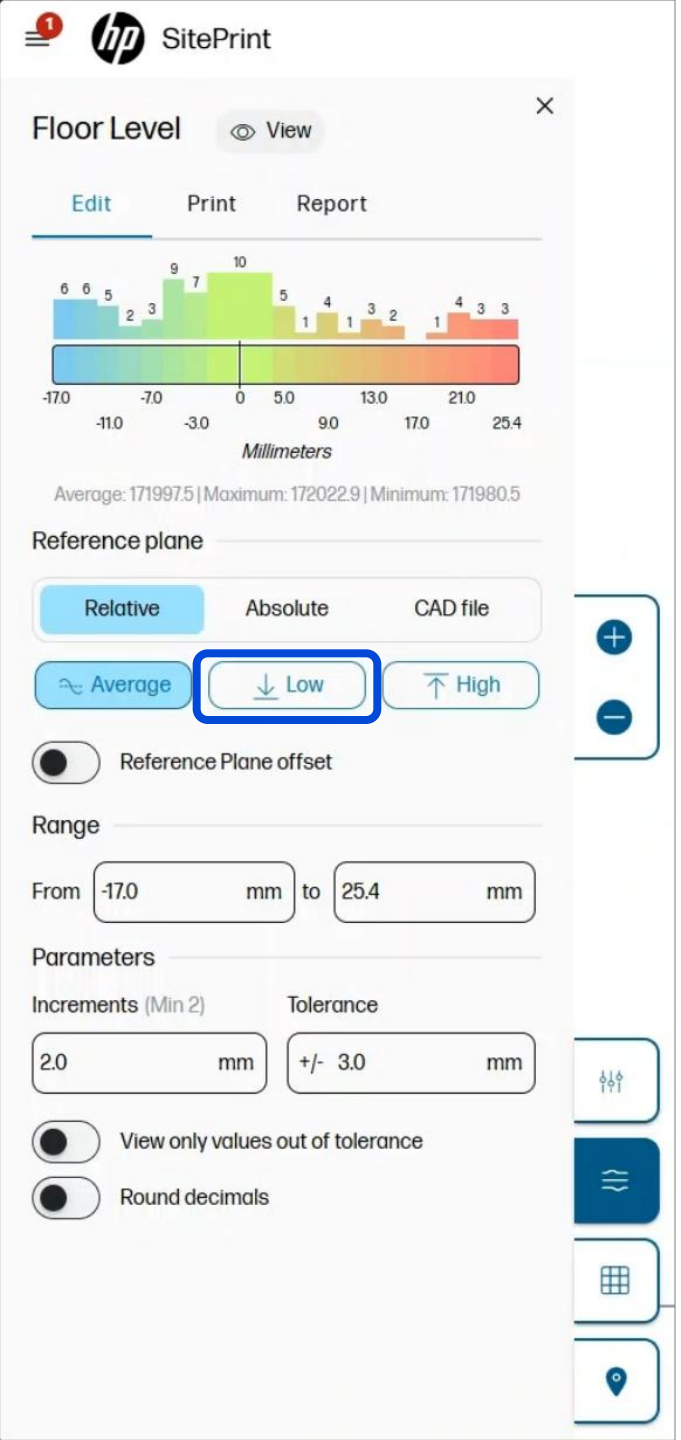


Reference Plane Options

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.

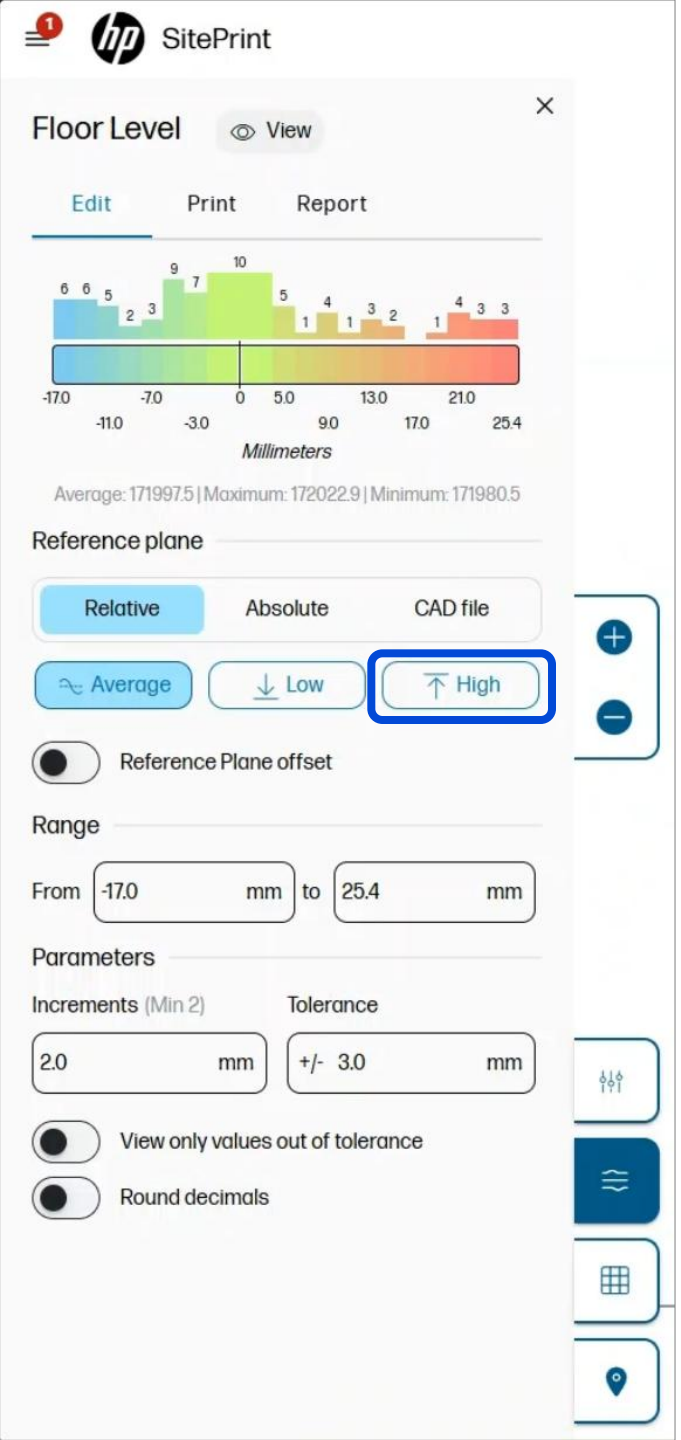


Reference Plane Options

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.

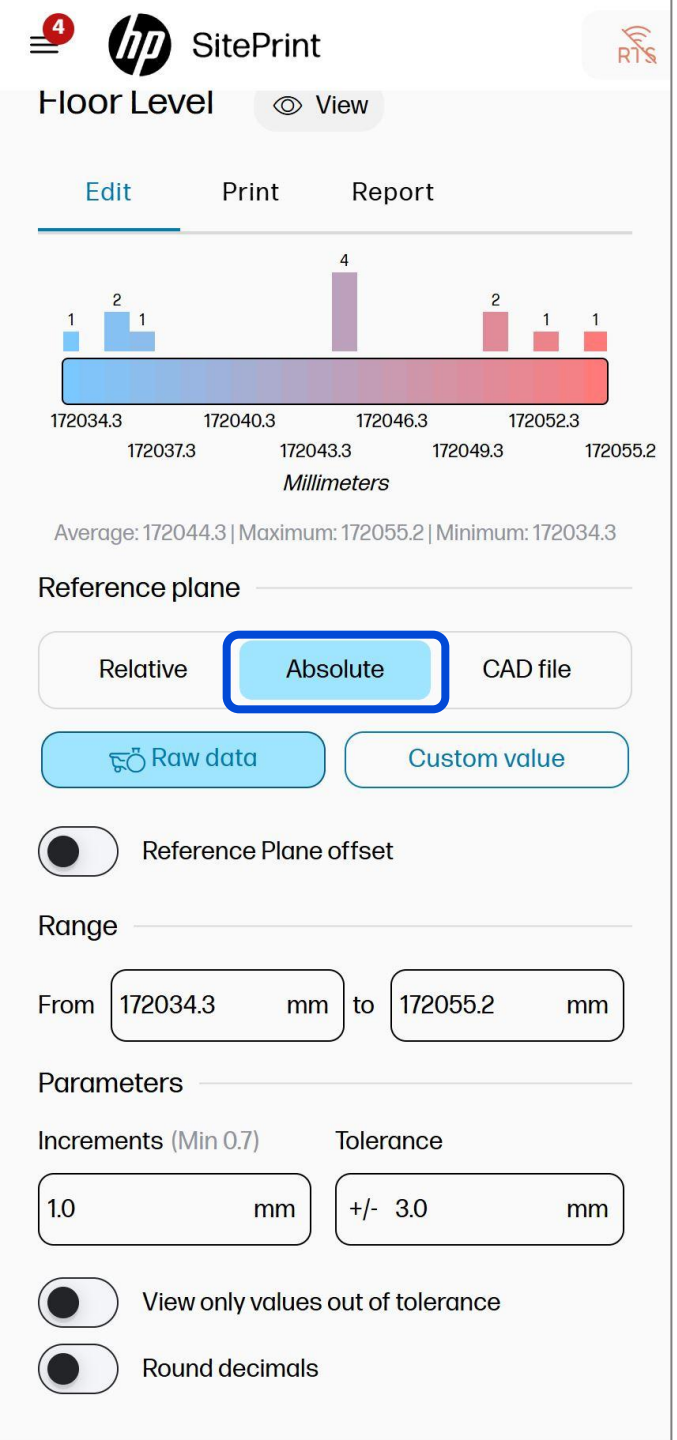


Reference Plane Options

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

Relative reference plane options

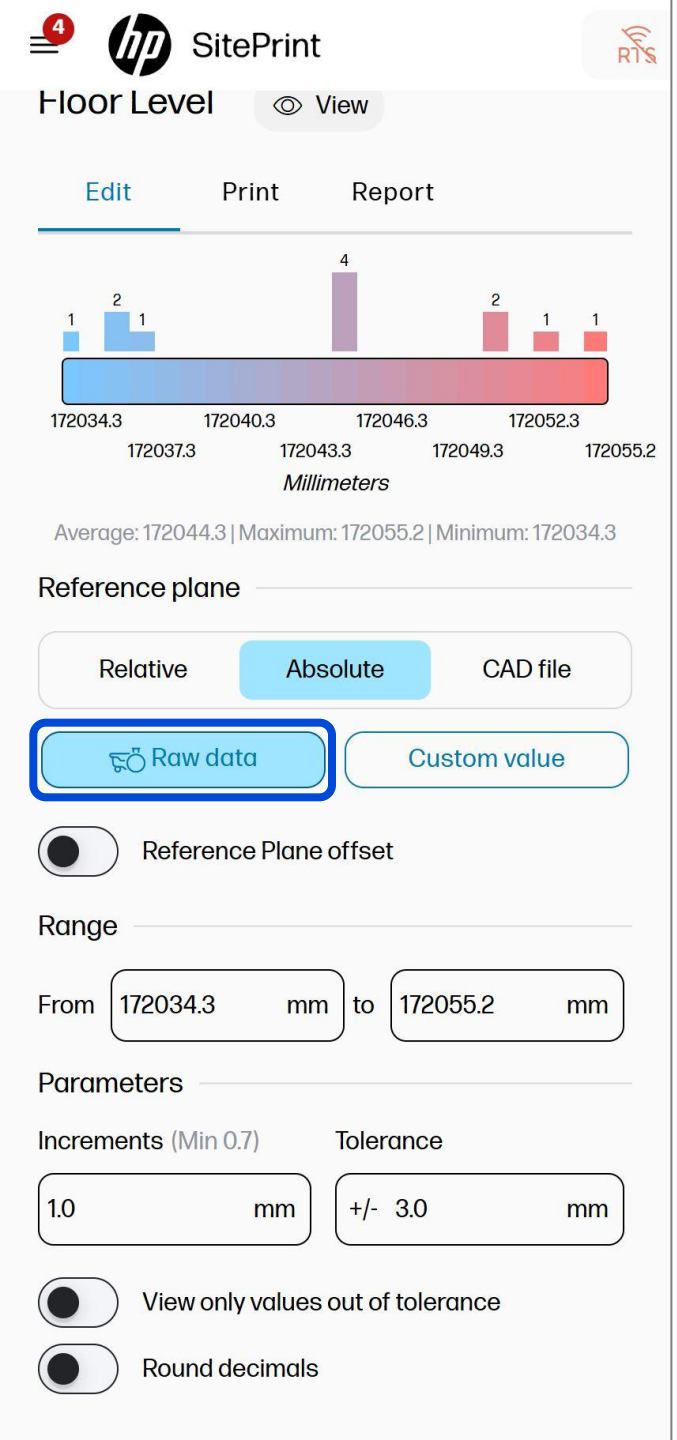
- **Average**: The reference plane is set based on the average elevation of all measured points within the specified elevation range.
- **Low**: The reference plane defined as the lowest measured elevation of all points within the defined elevation range.
- **High**: The reference plane is set at the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

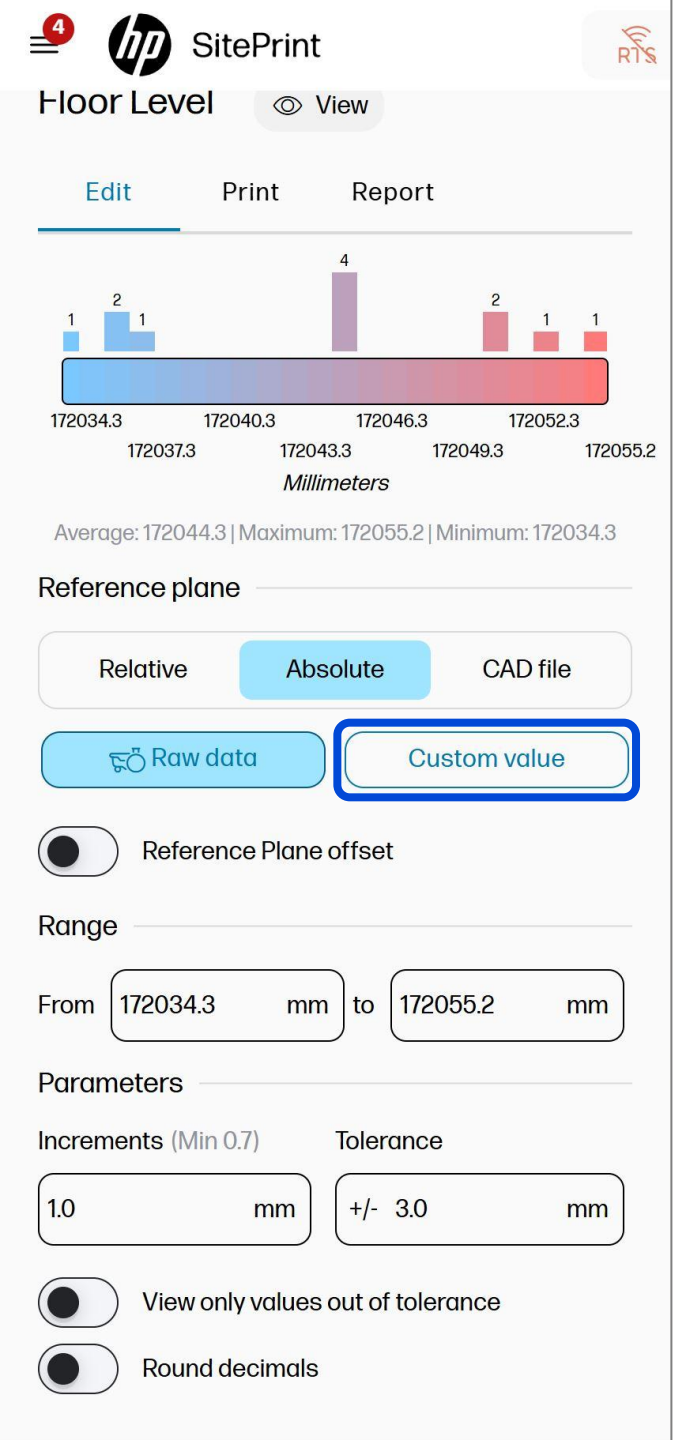


Reference Plane Options

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.

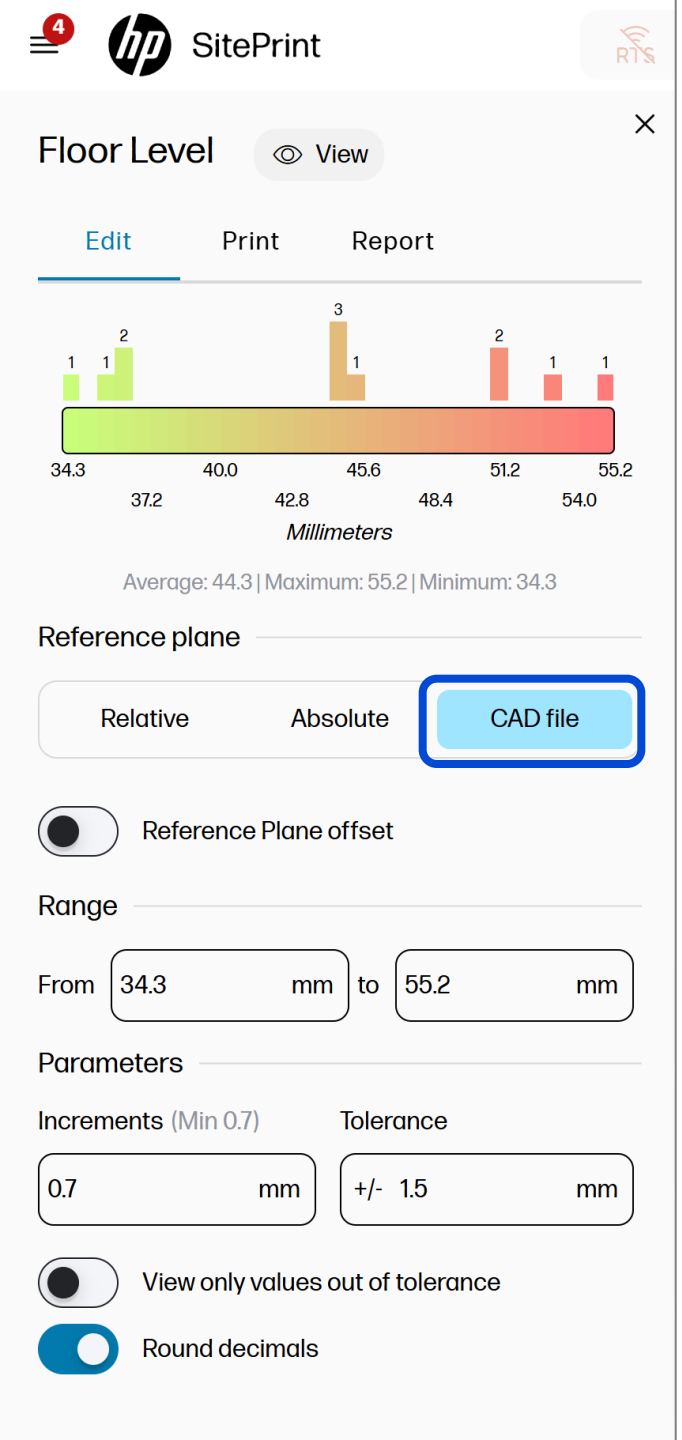


Reference Plane Options

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.

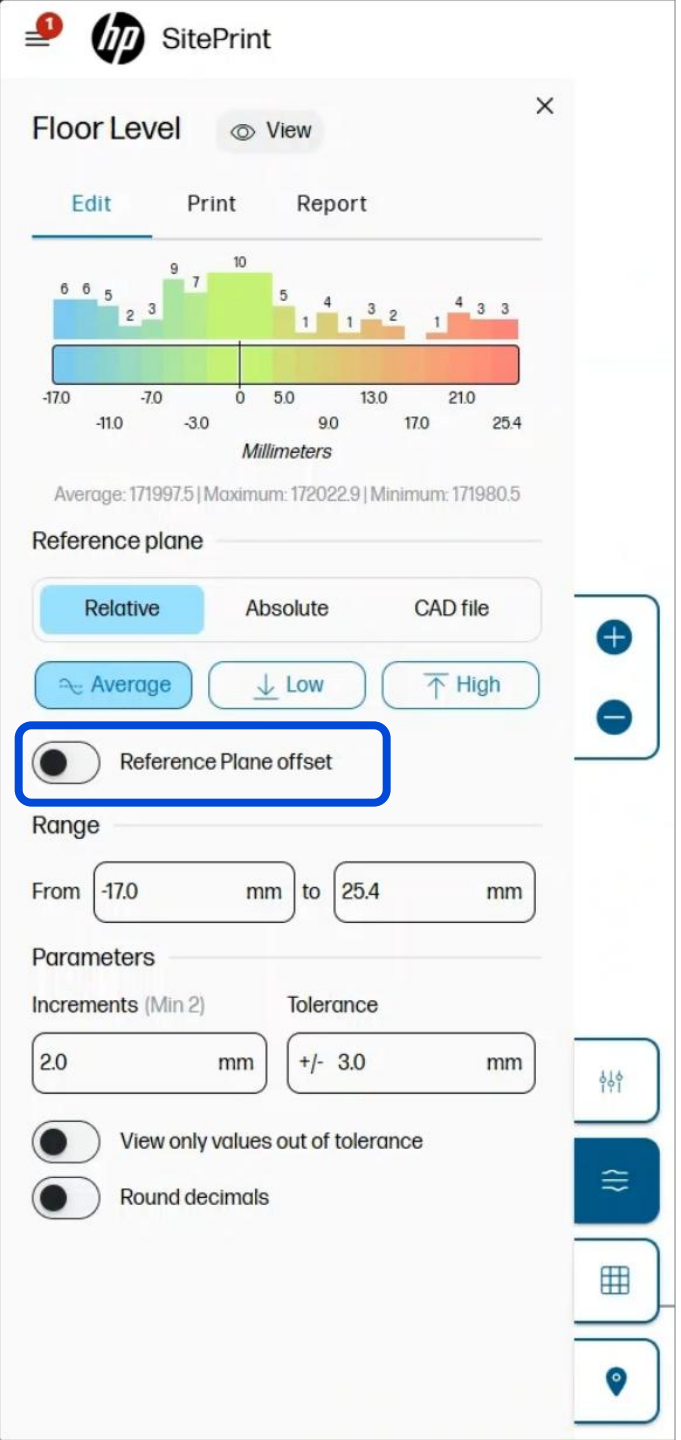


Reference Plane Options

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

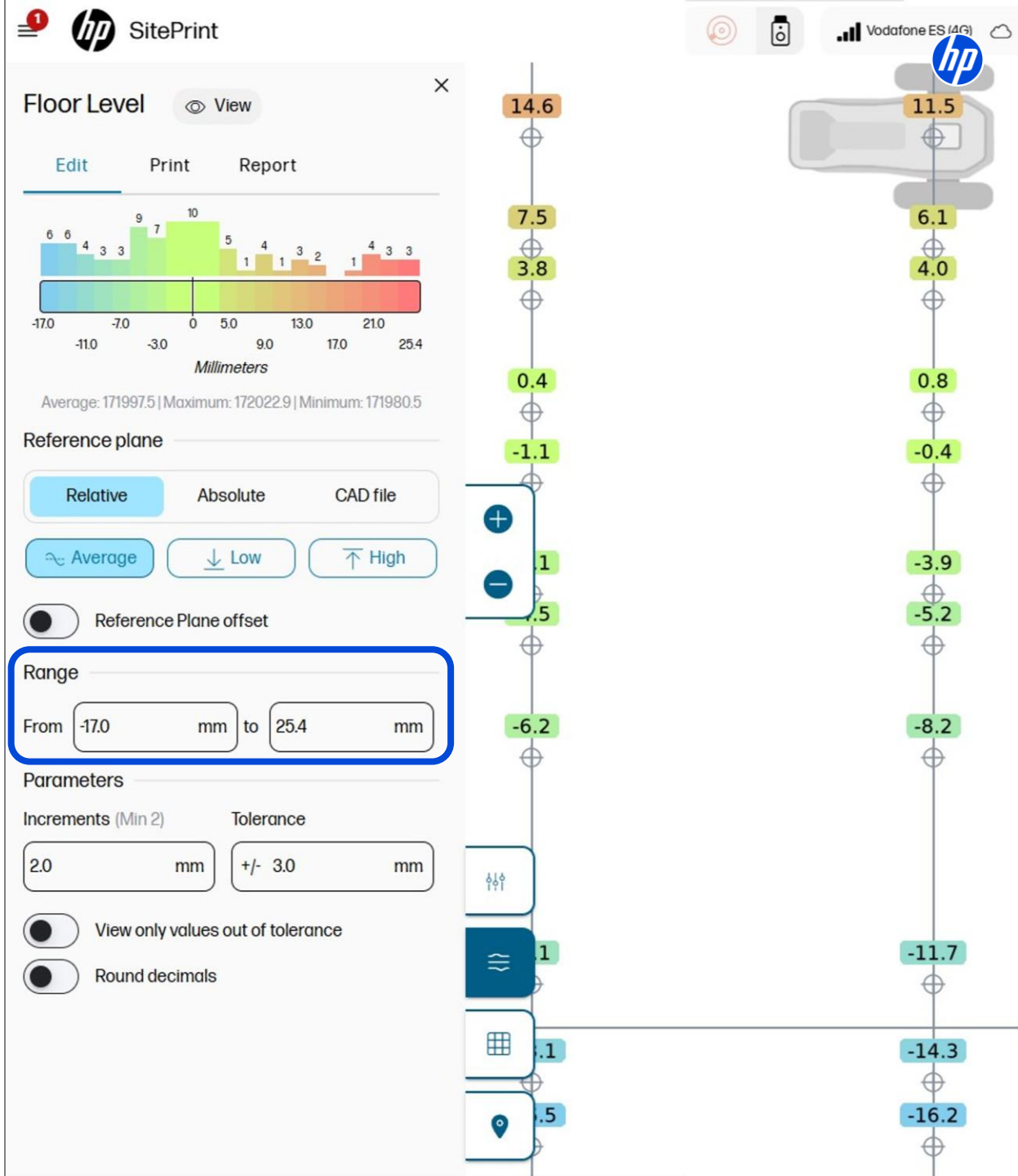
- **Reference Plane offset:** Allows to apply an elevation offset to the reference plane, shifting all displayed elevation values.

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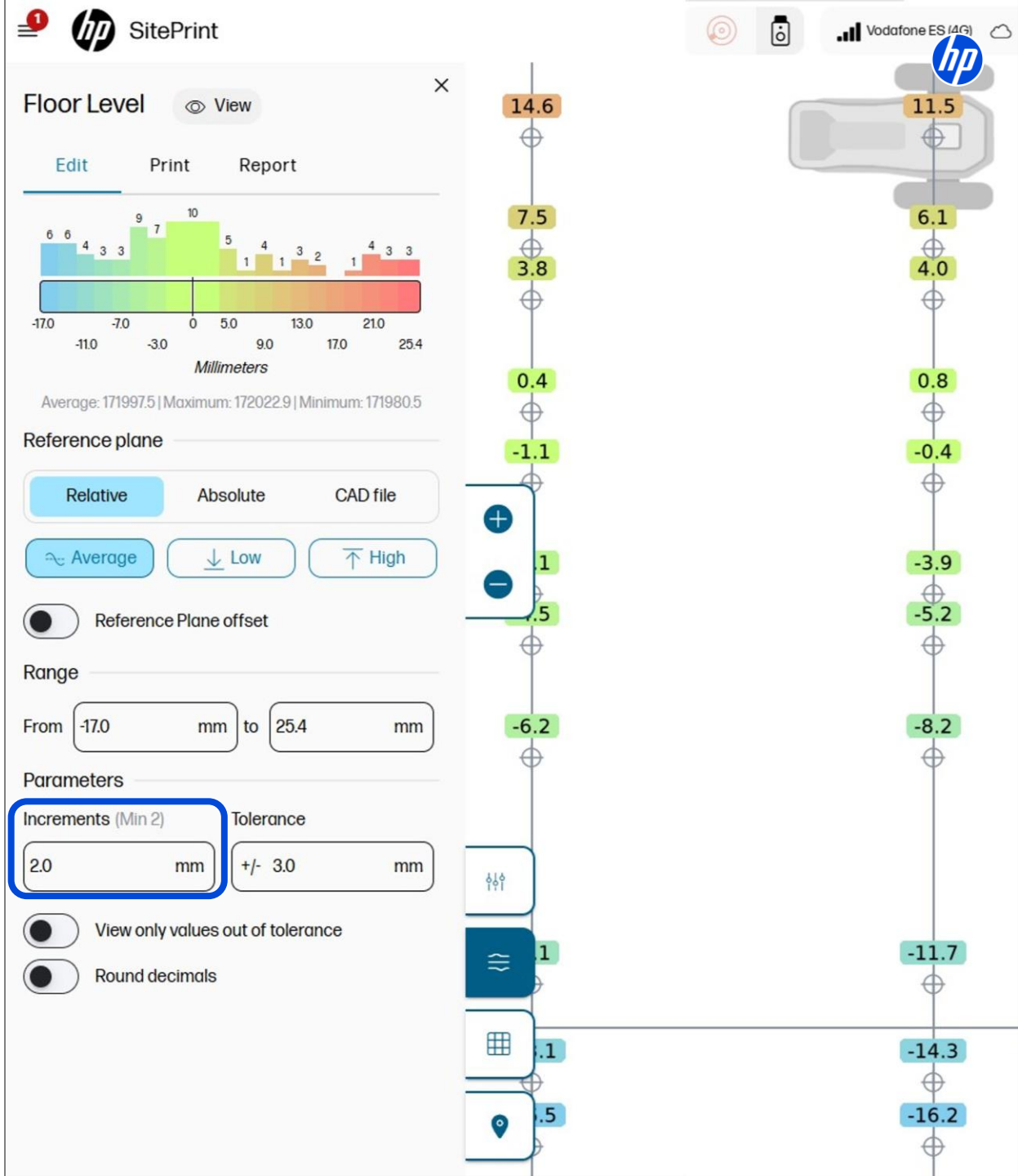
Increments: Controls the number of buckets intervals used in the histogram. Constraint to 30 intervals across the range.



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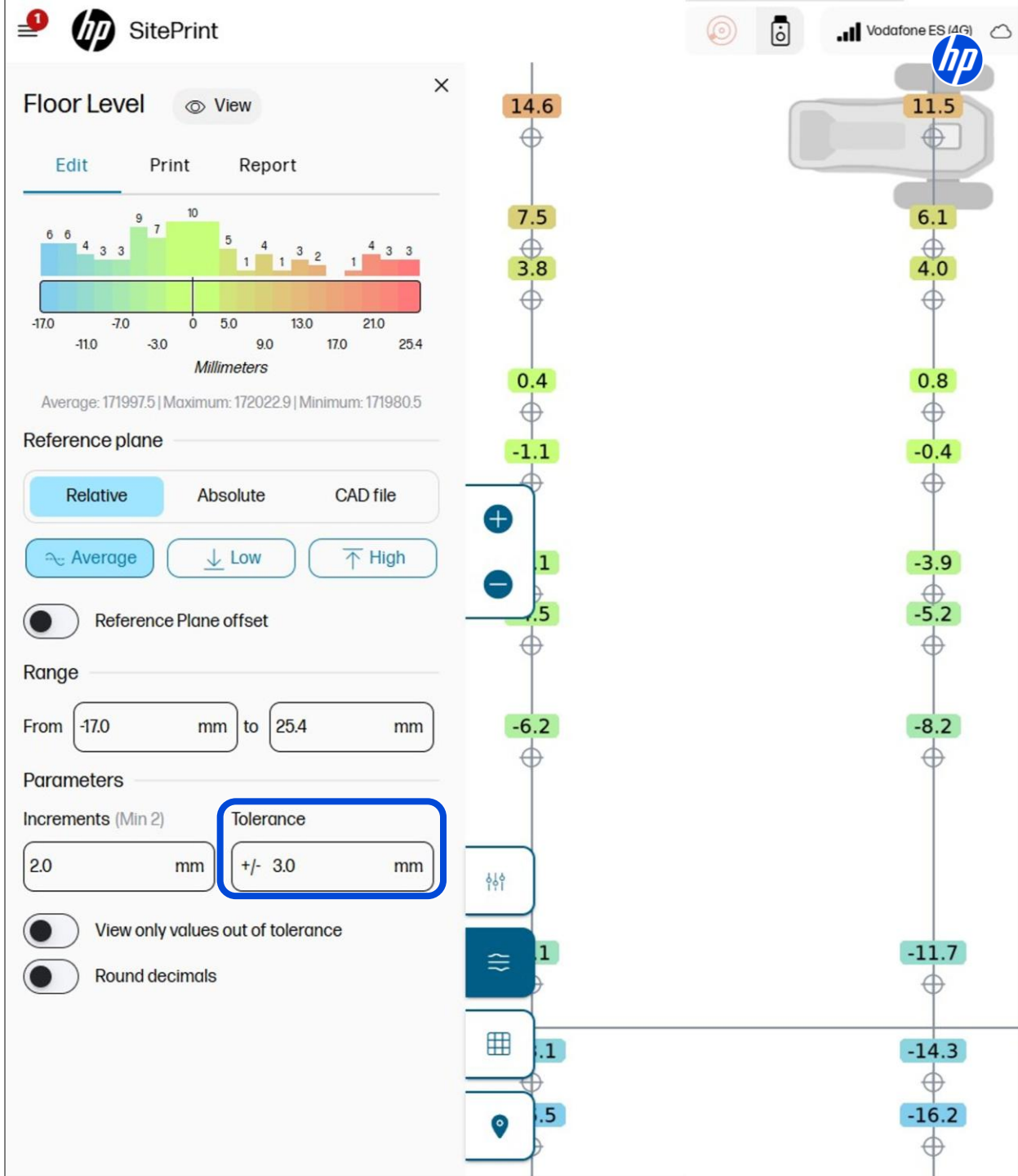
Increments: Controls the number of buckets intervals used in the histogram. Constraint to 30 intervals across the range.

Tolerance: Defines the acceptable deviation from the ideal elevation.

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



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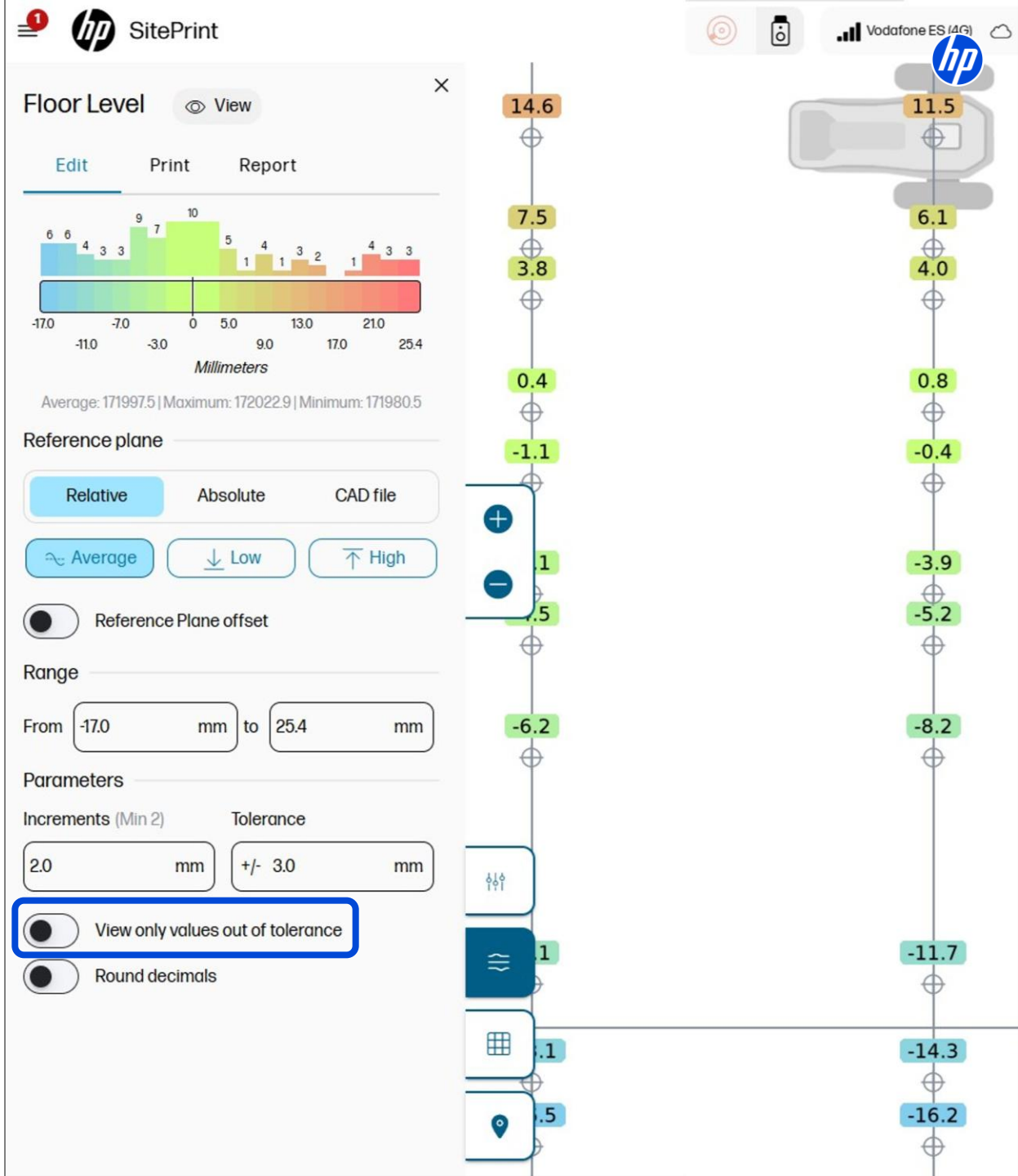
View only values out of tolerance: Allows hiding values and elevation tags within tolerance.



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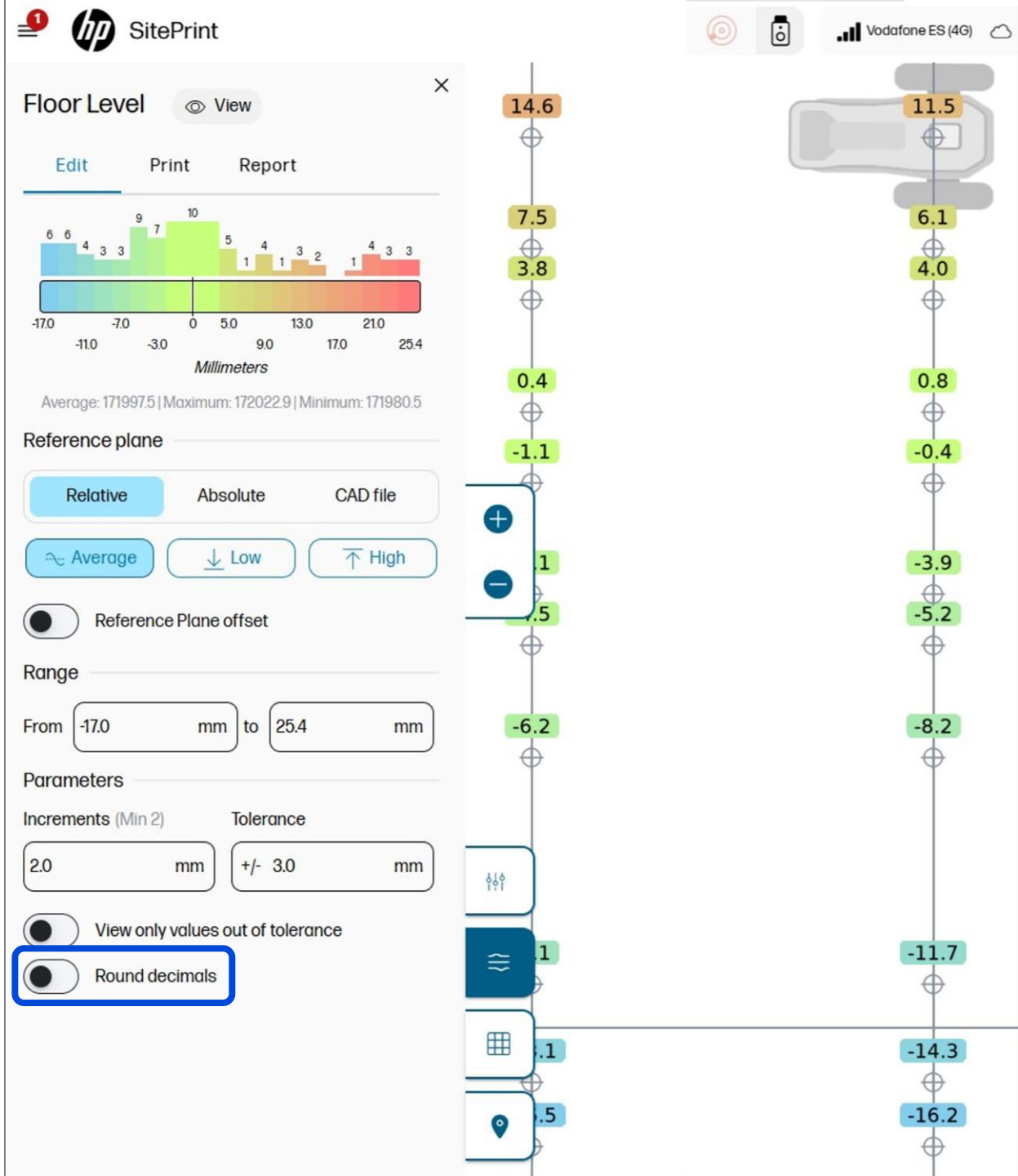
Tolerance: Defines the acceptable deviation from the ideal elevation.
- Values within the tolerance range will be marked in green.

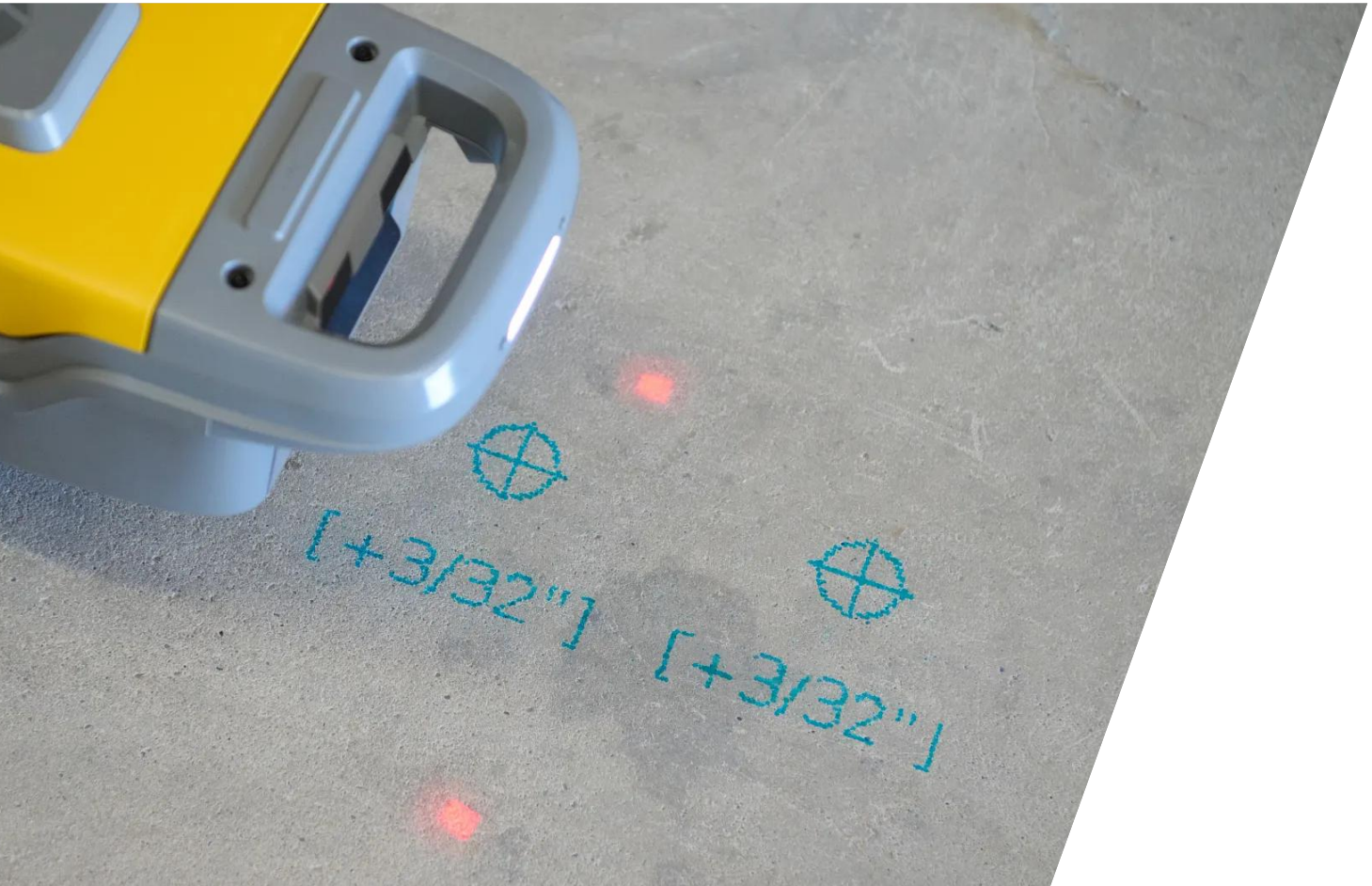
View only values out of tolerance: Allows hiding values and elevation tags within tolerance.

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

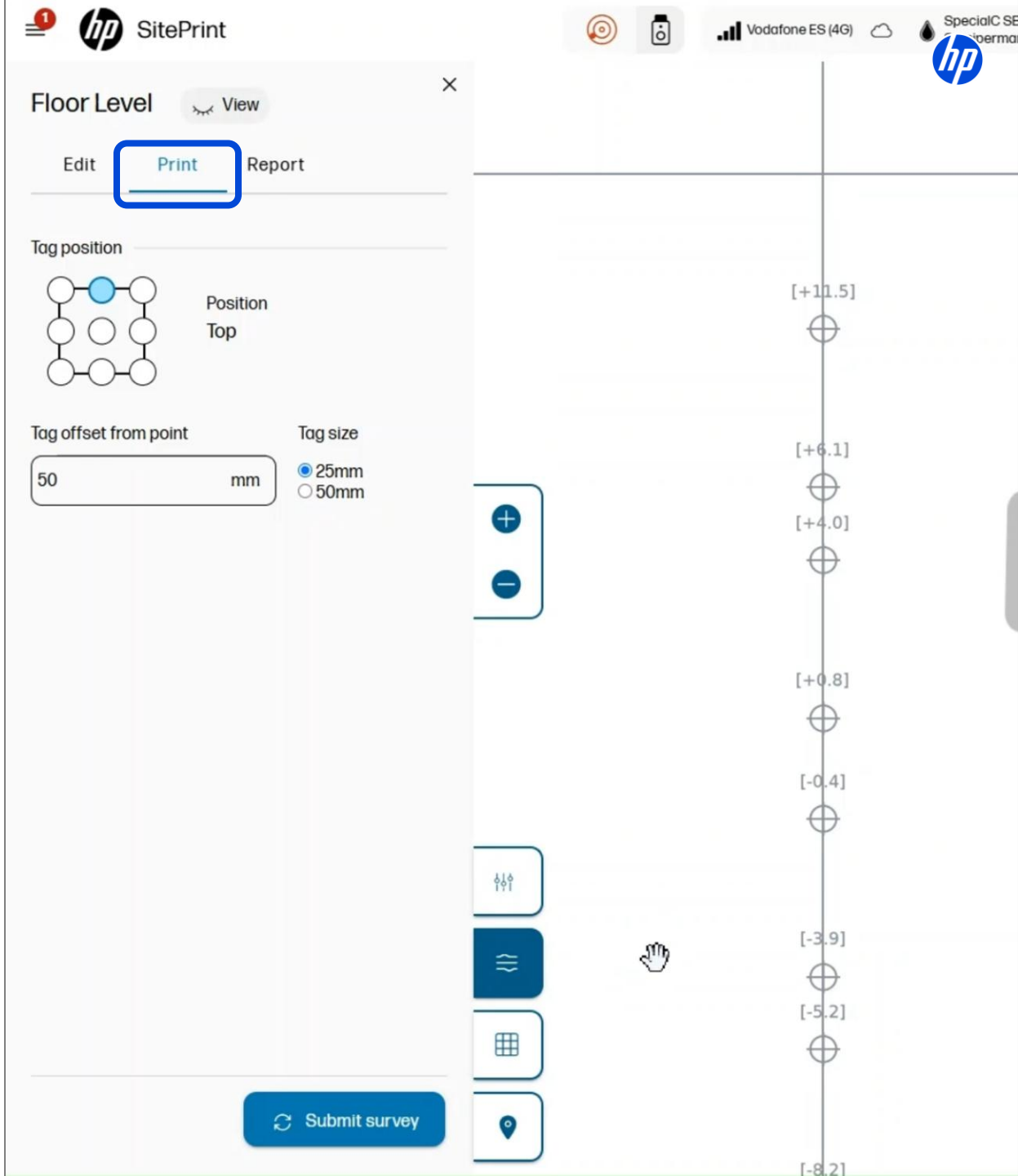
Mark the floor deviation corrections on the slab, so everybody has the right information

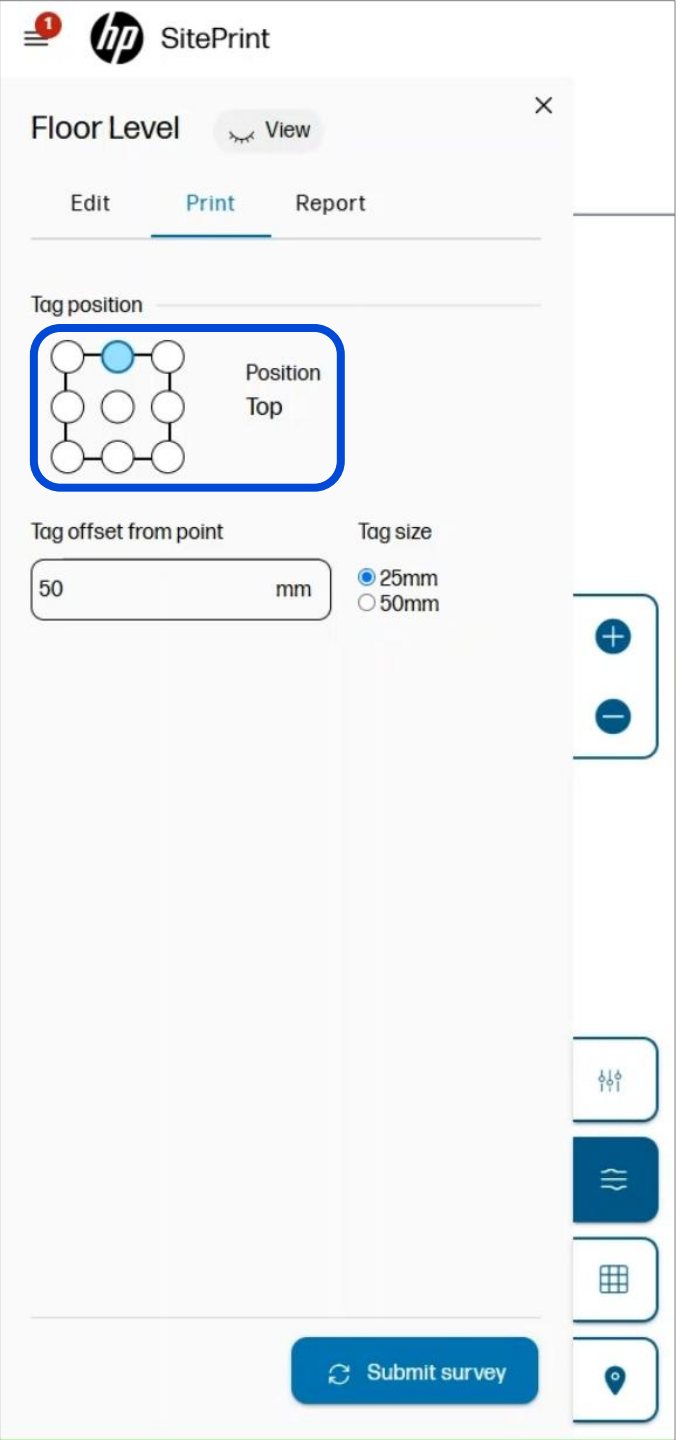
Tag Position

Tag Offset

Tag Size

Submit Survey



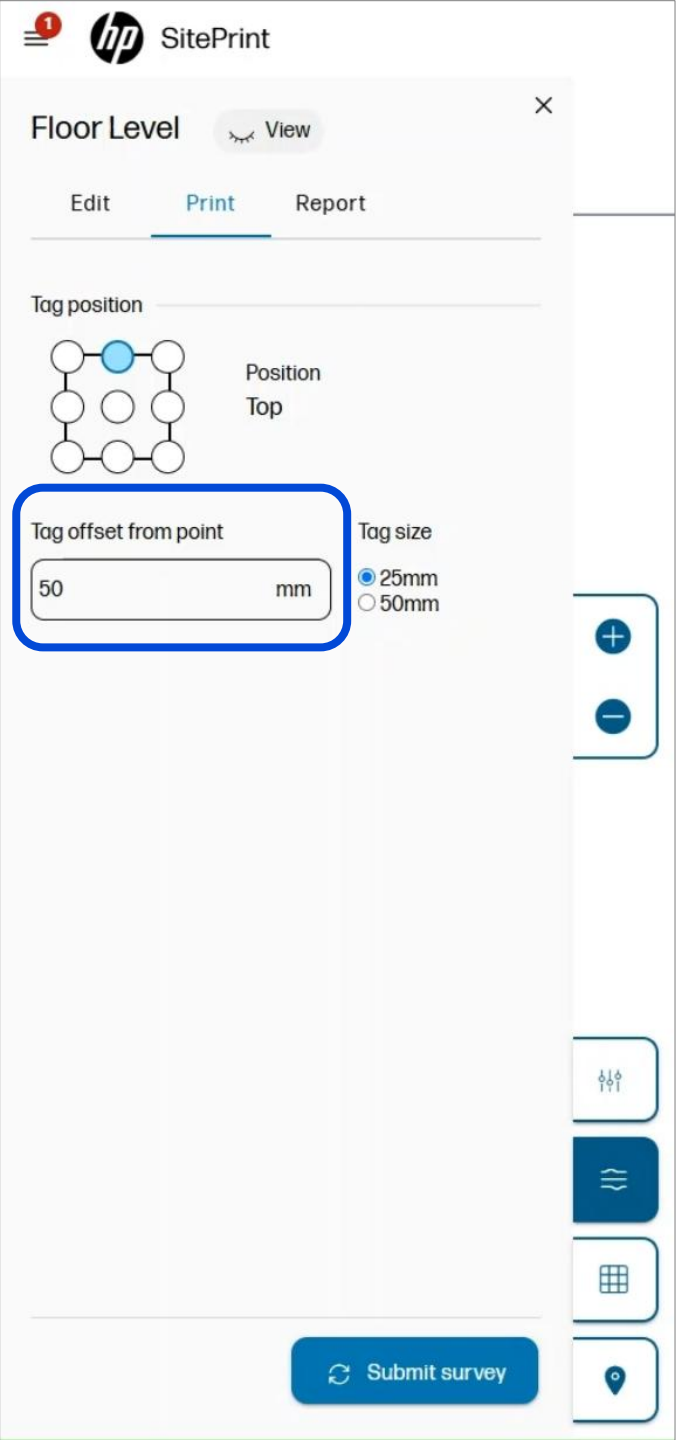


Print tags on the slab

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



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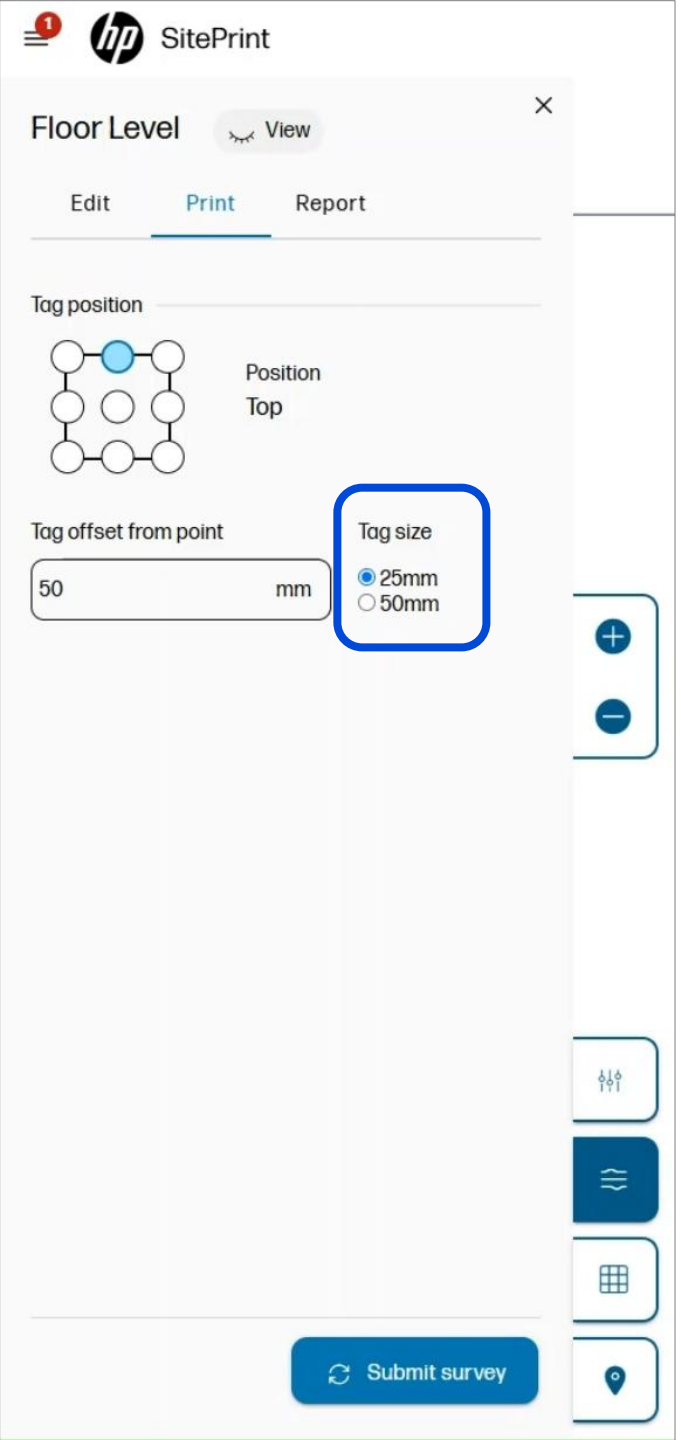
Tag position

- Select the most appropriate position for the printable labels

Tag offset from point

- Define the label offset location to the point



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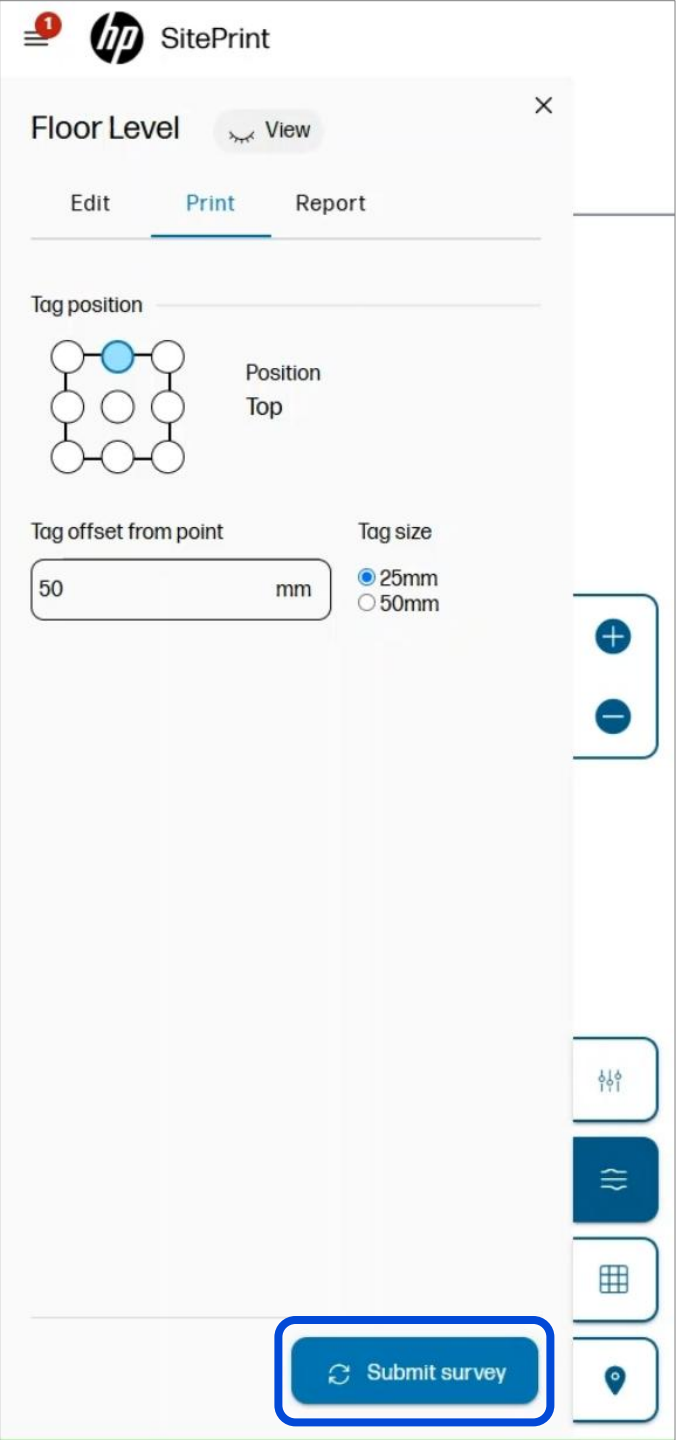
Tag size

- Choose the size of your tags



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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.

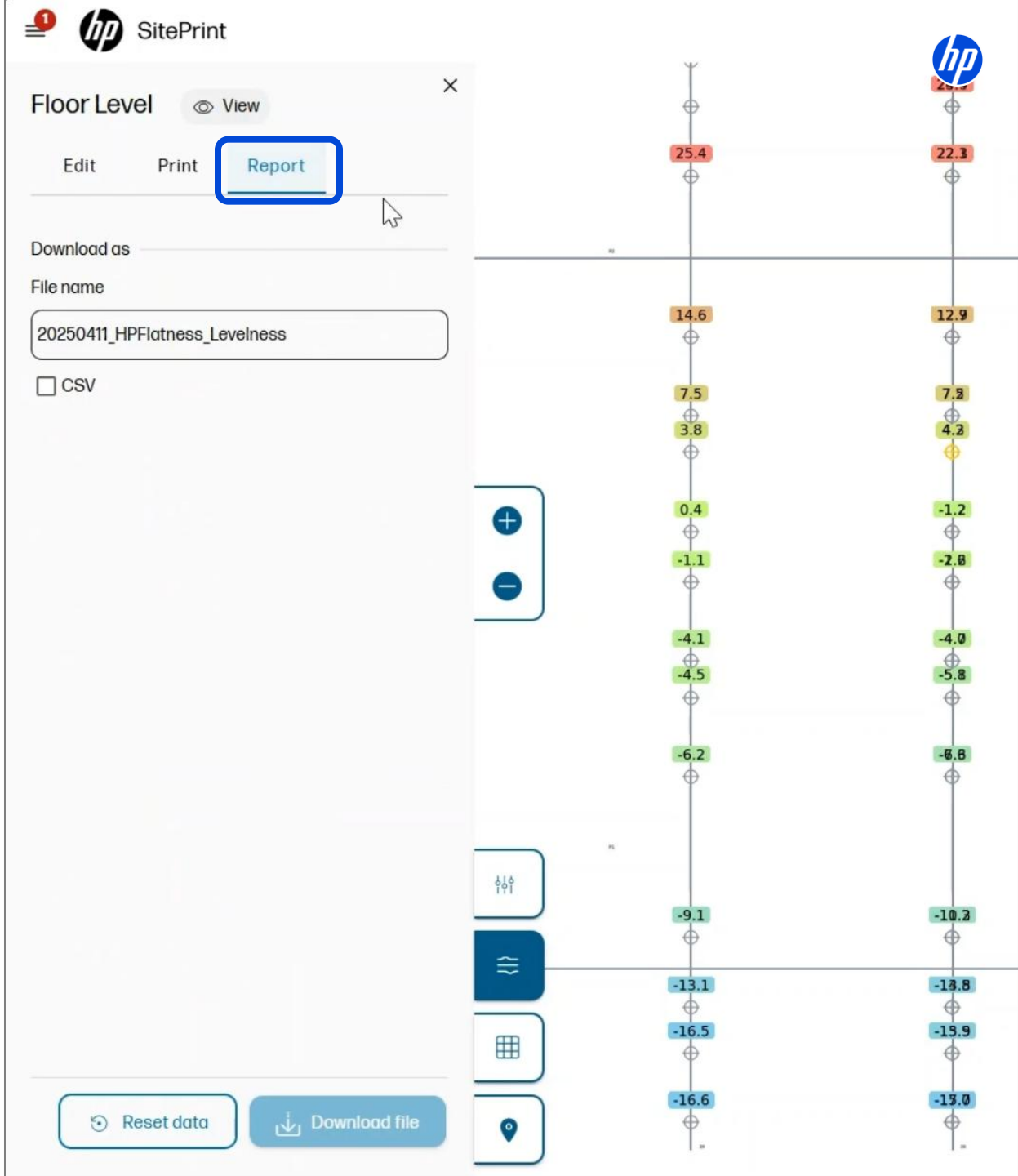
Report Tab

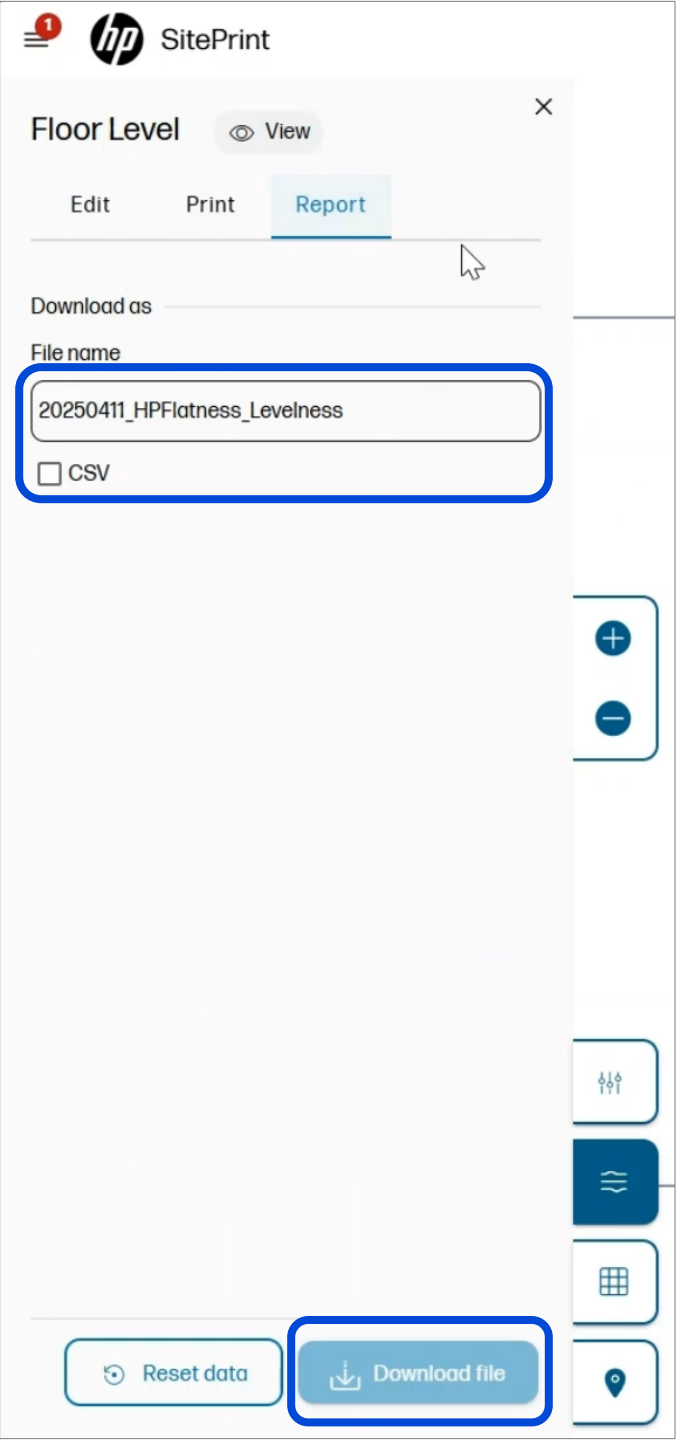
Download a CSV report with the floor level data and generate custom documentation.

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.
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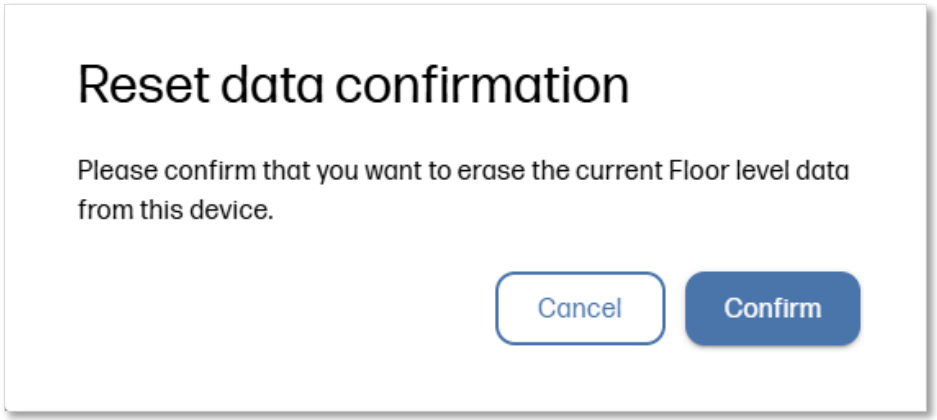

	A	B	C	D	E	F
1	HANDLE	X(m)	Y(m)	Z measured(m)	Z calculated(m)	TYPE
2	7A7	5009.579	2002.1714	0.0181	0.0164	point
3	7A9	5009.5309	2001.9137	0.0173	0.0156	point
4	7AB	5009.3118	2002.201	0.0192	0.0175	point
5	7AA	5009.2637	2001.9508	0.0142	0.0125	point
6	7AF	5008.05	2002.162	0	-0.0017	point
7	7AD	5008.0488	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

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

Reset Data

- Remove the Floor level data captured in case it is not valid.
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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…).

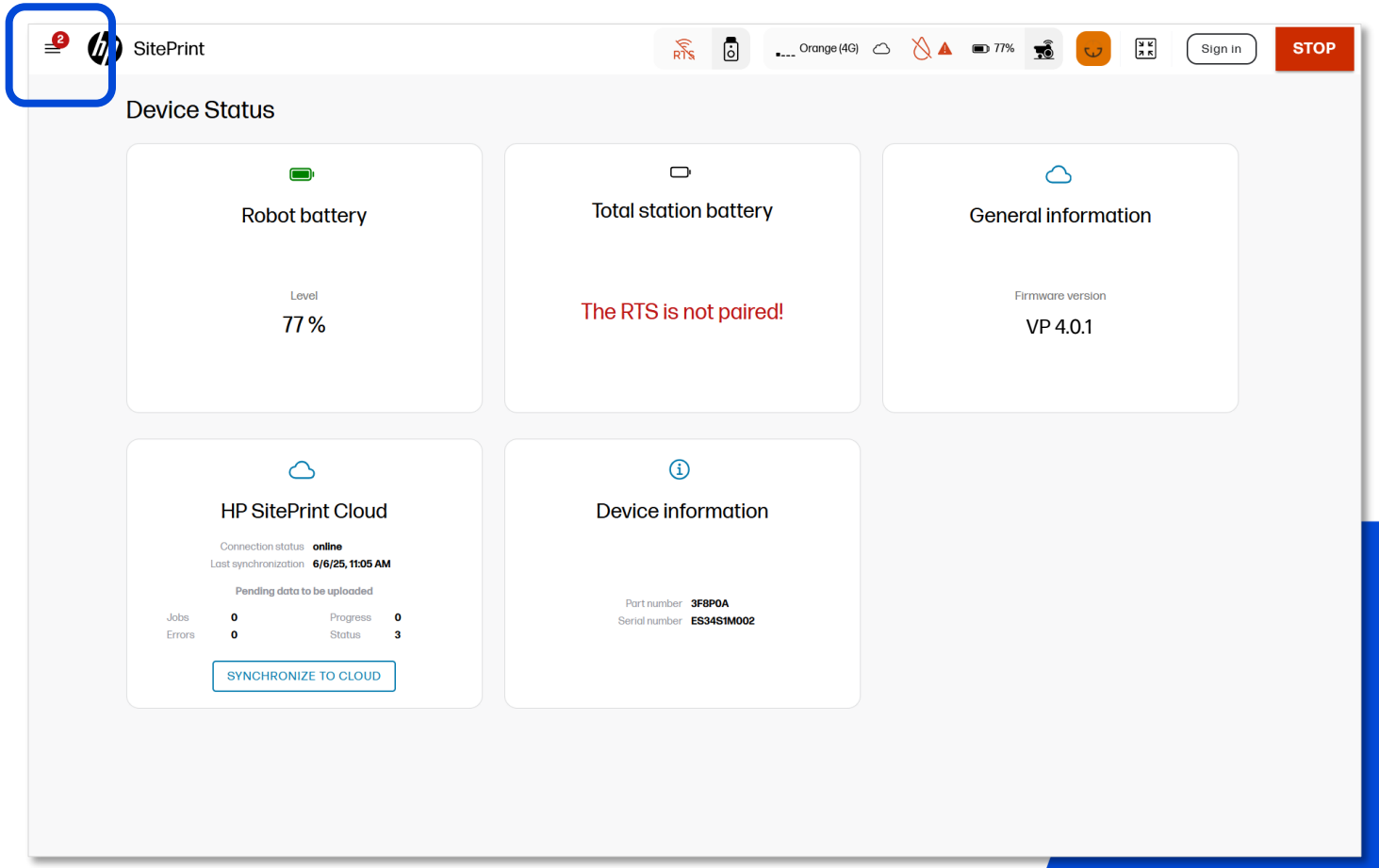
Floor Level Units

Select the unit system that you prefer.

Floor Level Units

Select the unit system that you prefer.

01 Click on the top-left menu ☰

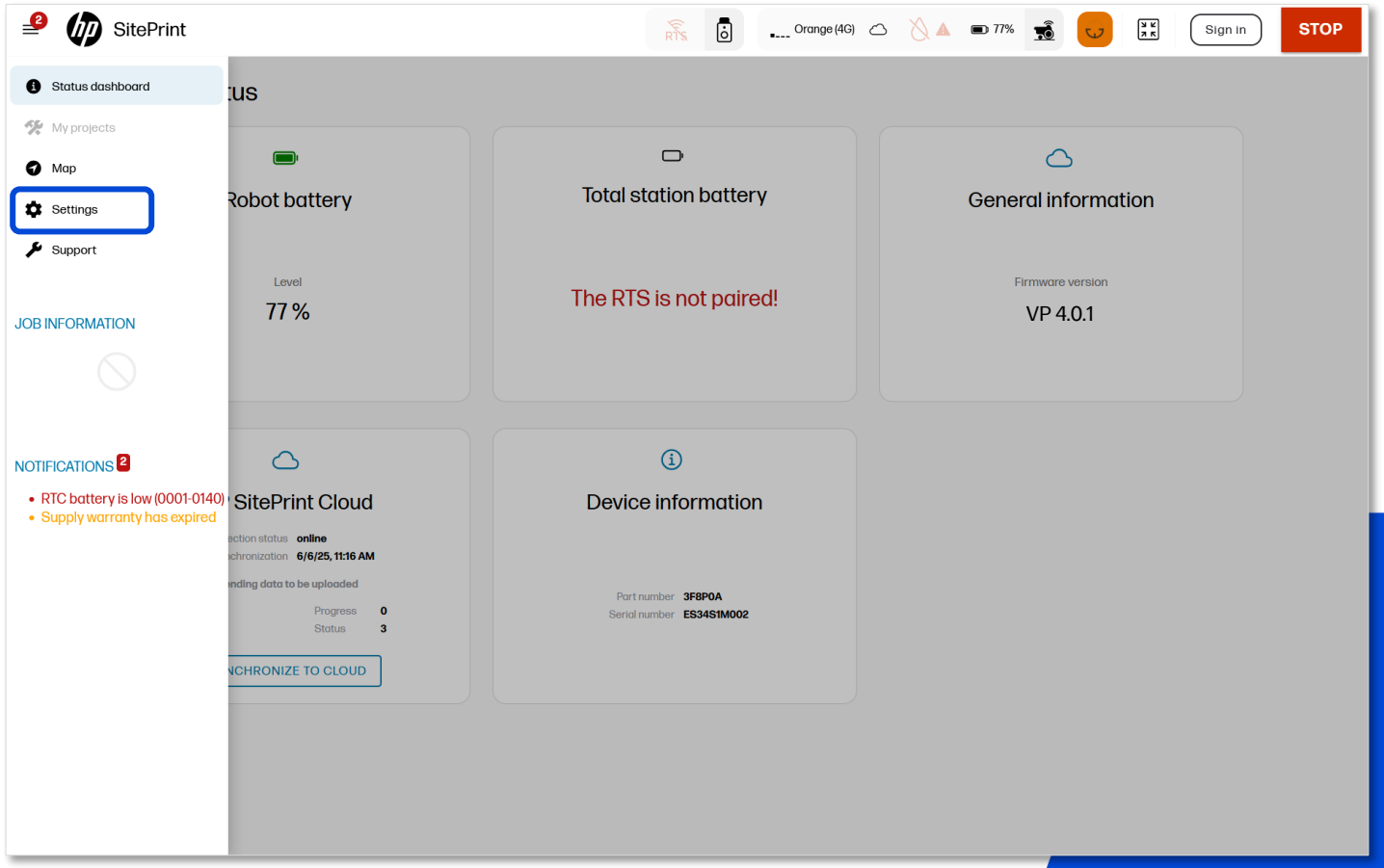


Floor Level Units

Select the unit system that you prefer.

01 Click on the top-left menu

02 Select the **Settings** menu



Floor Level Units

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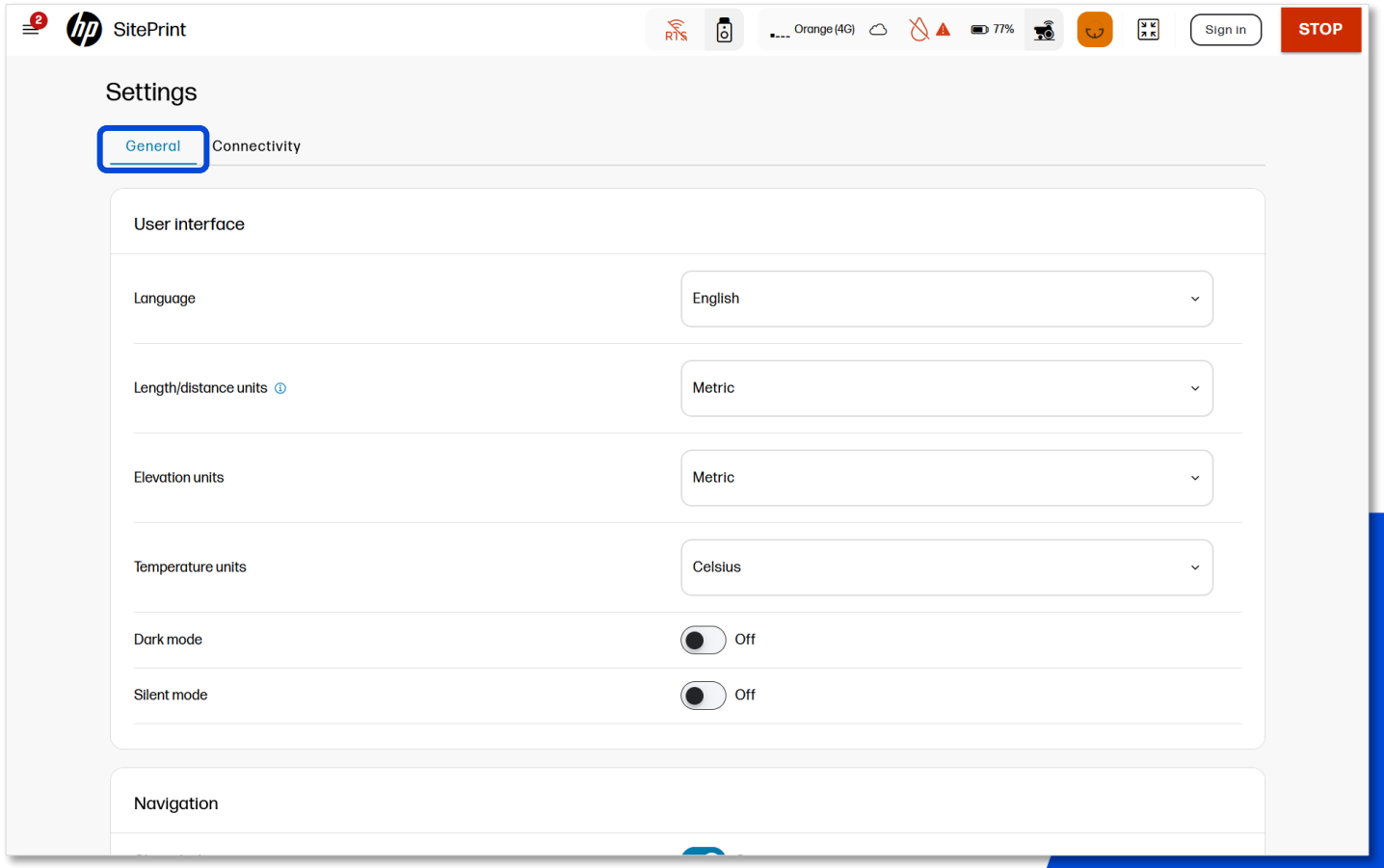
01 Click on the top-left menu

02 Select the **Settings** menu

03 Select the **General** tab



Floor Level Units

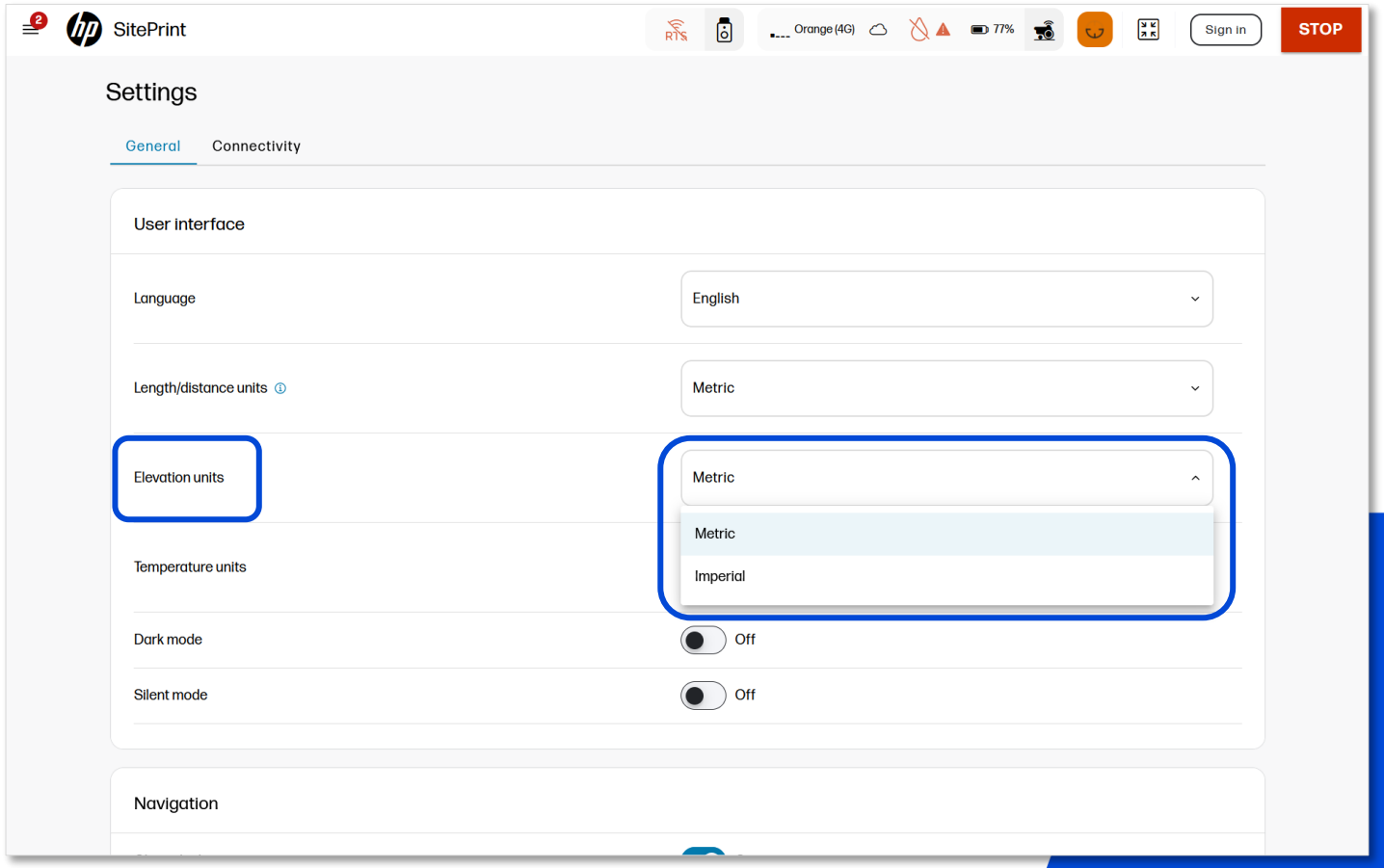
Select the unit system that you prefer.

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).

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).
- Optionally, values can be rounded up to 1/16”.

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).
- Optionally, values can be rounded up to 1/16”.

See decimals

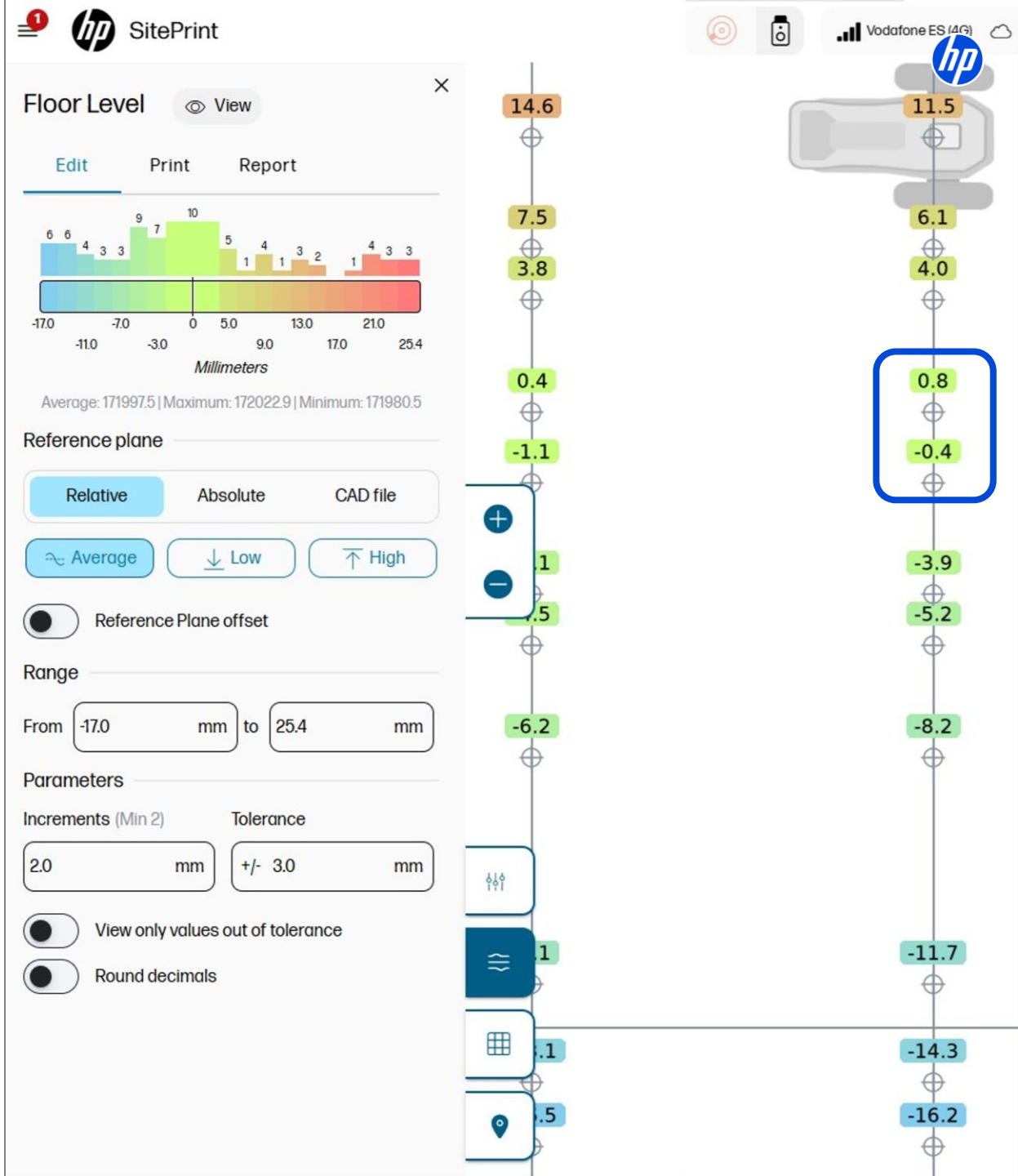
- Enables to display values in inches with decimal format instead of fractions.
- Default precision is 2 decimals (0.01” / 0.25 mm).
- Values can be rounded up to 1 decimal (0.1” / 2.5 mm)

Floor Level Units

Units set to **Metric**

Tags display format

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

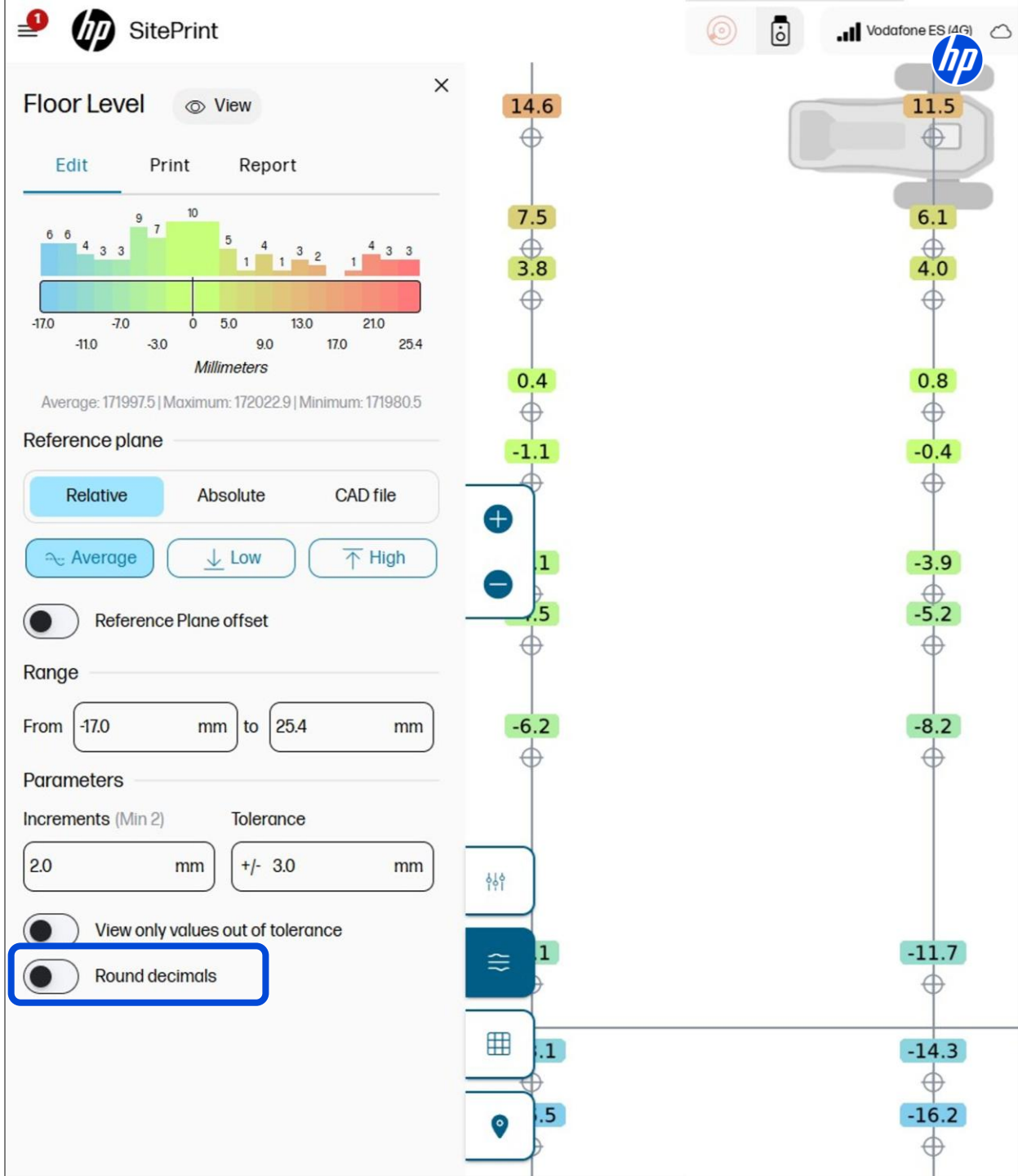


Floor Level Units

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

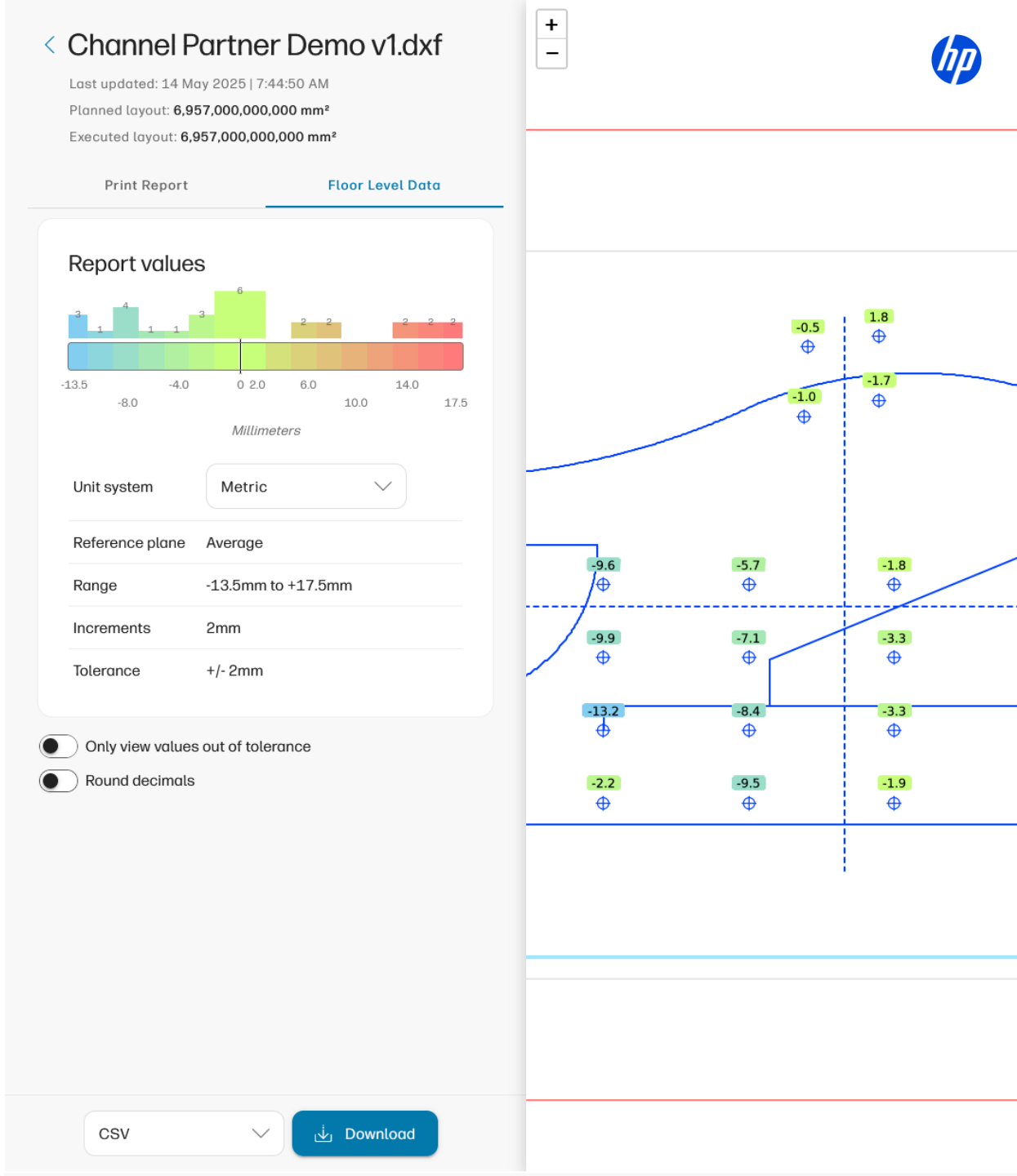
Floor Level – SP Cloud

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

Access Floor Level data from the cloud

Visualize the Floor Level data

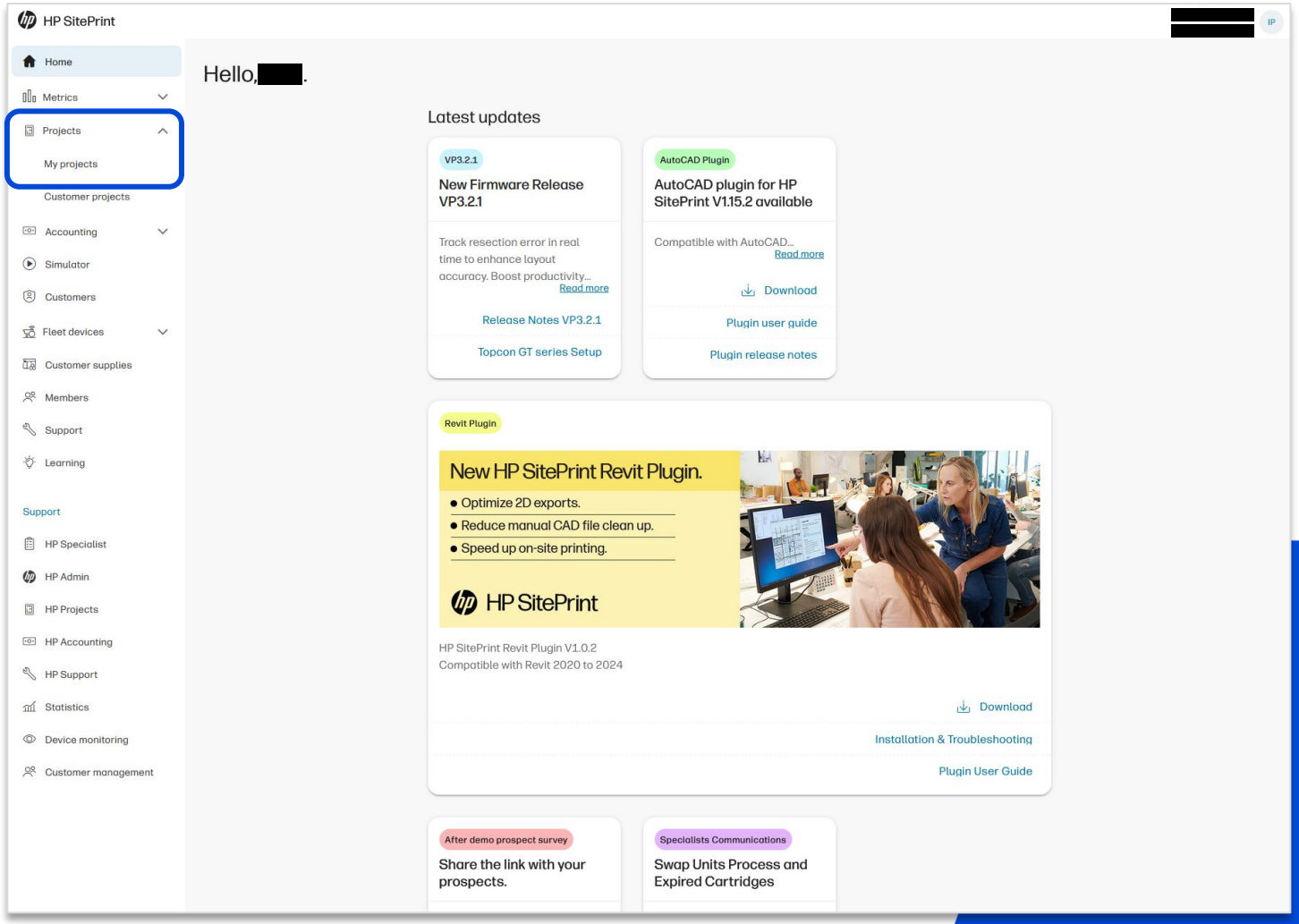
Download a CSV report



Access Floor Level data from the cloud

Select the project you want to check

01 Select your project

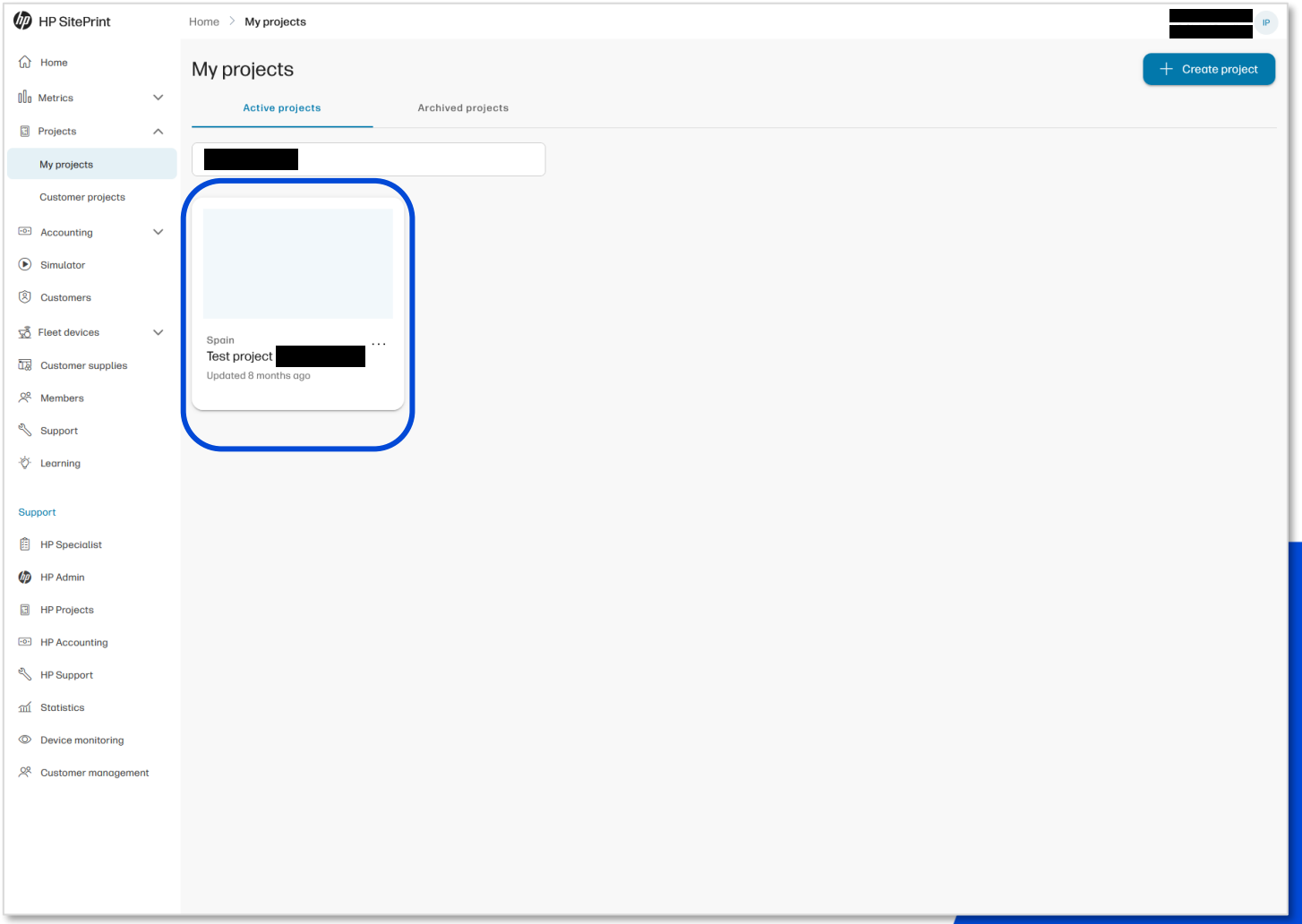


Access Floor Level data from the cloud

Select the project you want to check

01 Select your project

02 Select a file in the project



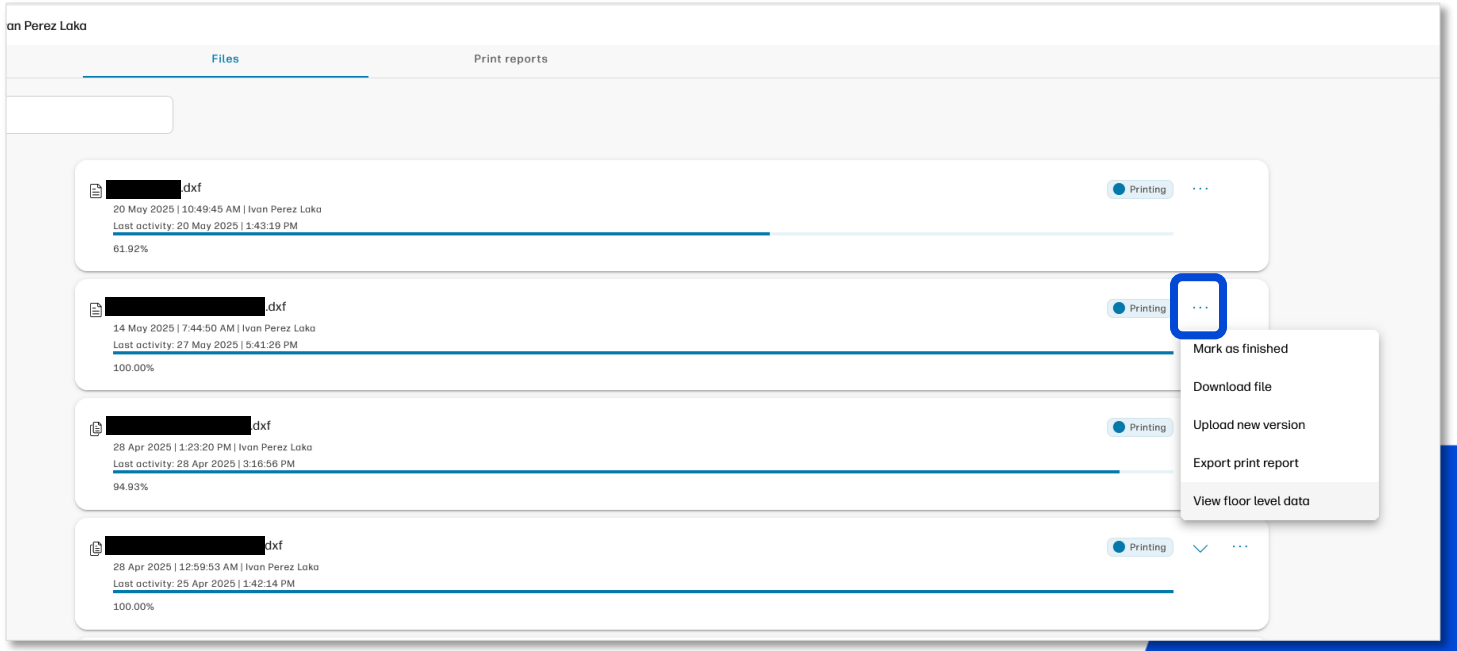
Access Floor Level data from the cloud

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

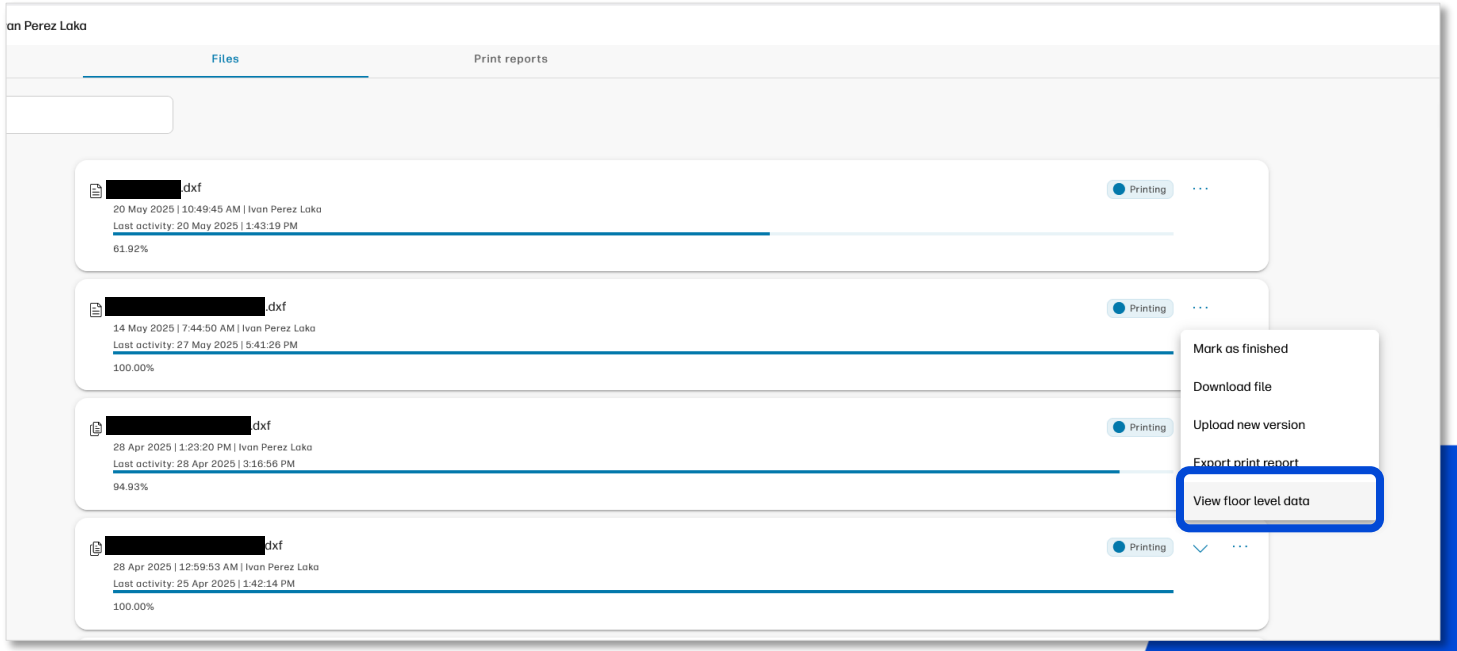
Select the project you want to check

01 Select your project

02 Select a file in the project

03 Click on the right menu •••

04 Click on “View floor level data”

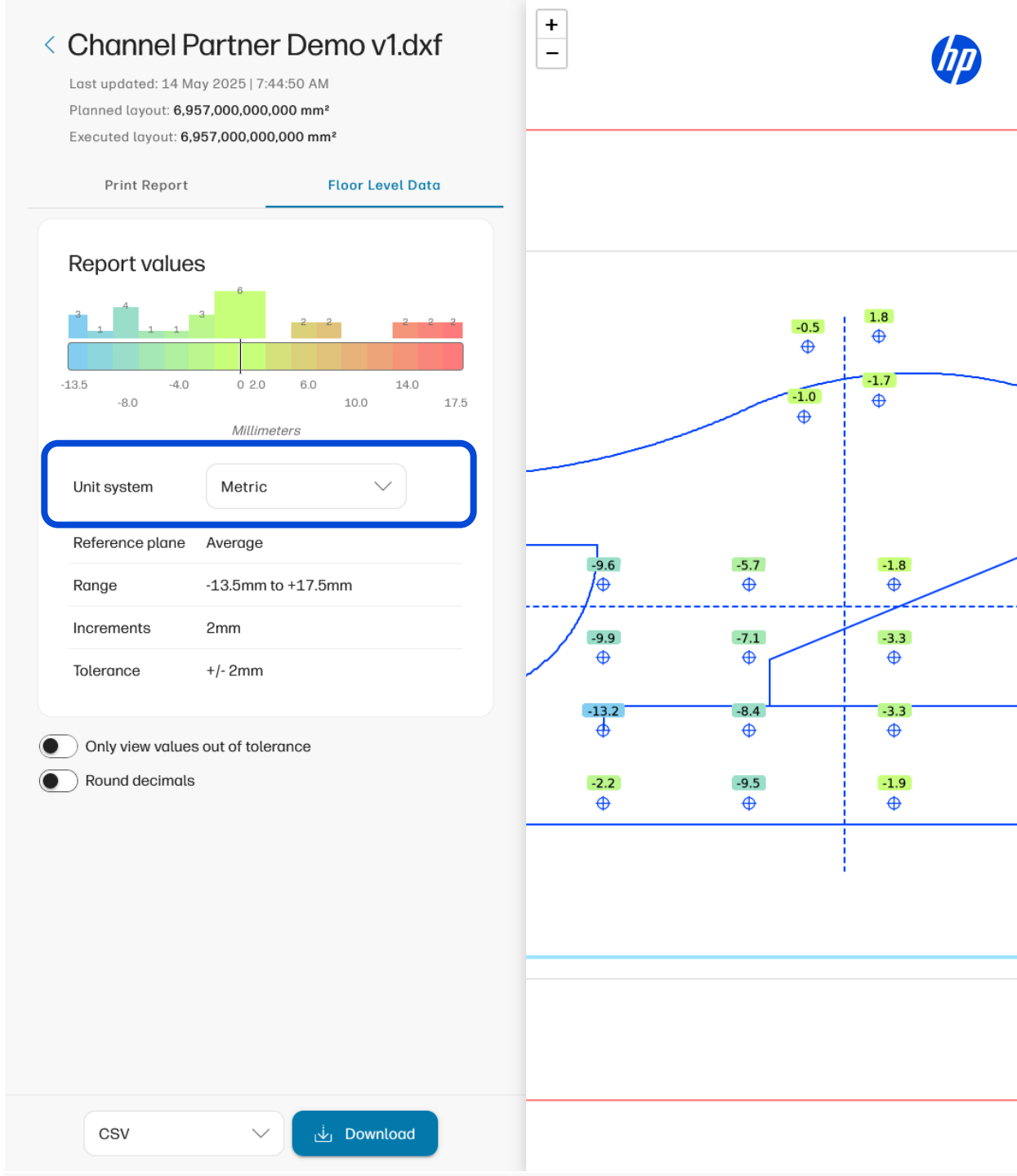


Visualize Floor Level data

Customize the visualization from the Cloud portal

Units system

- Choose between Metric or Imperial Systems.



Visualize Floor Level data

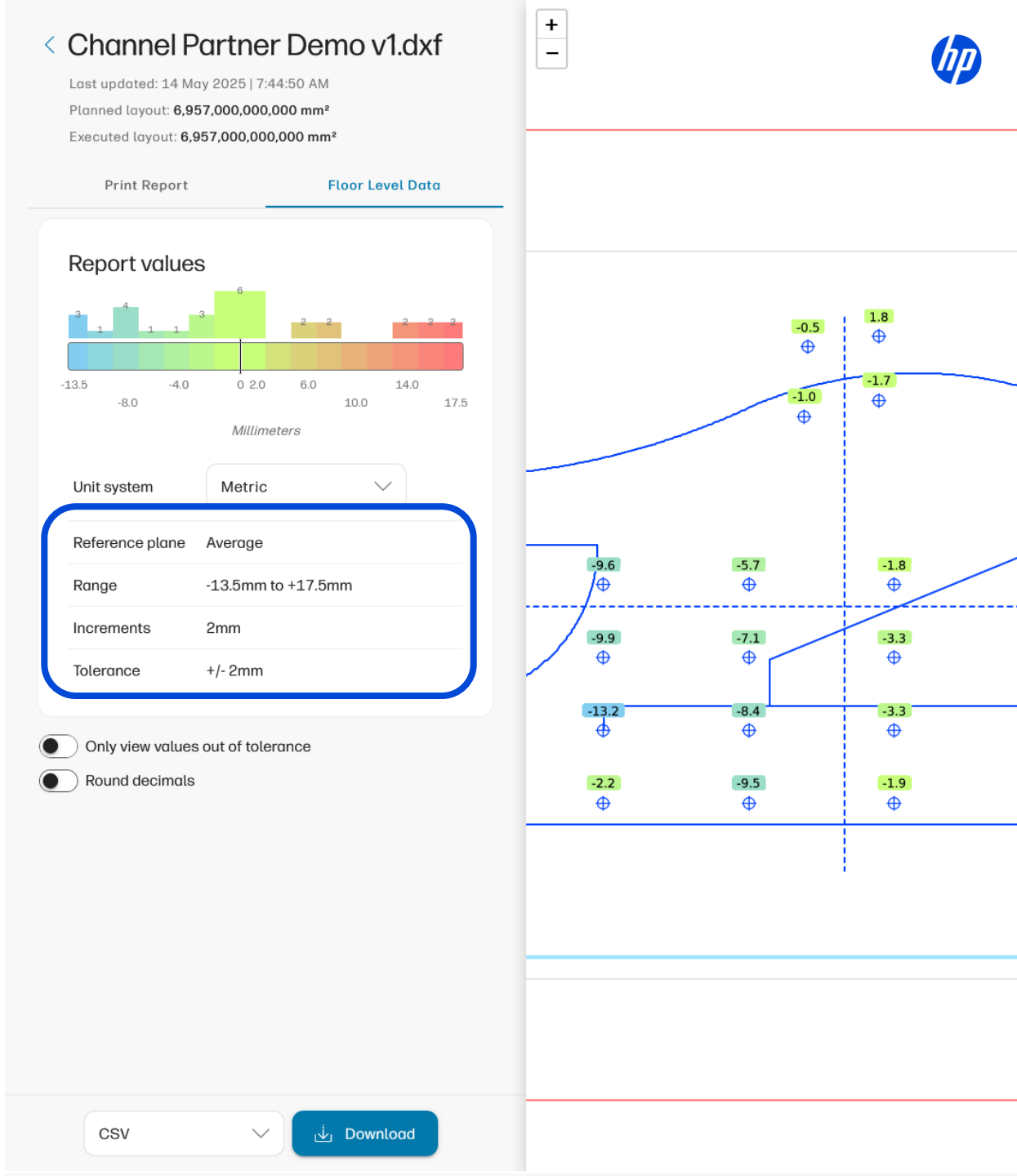
Customize the visualization from the Cloud portal

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



Visualize Floor Level data

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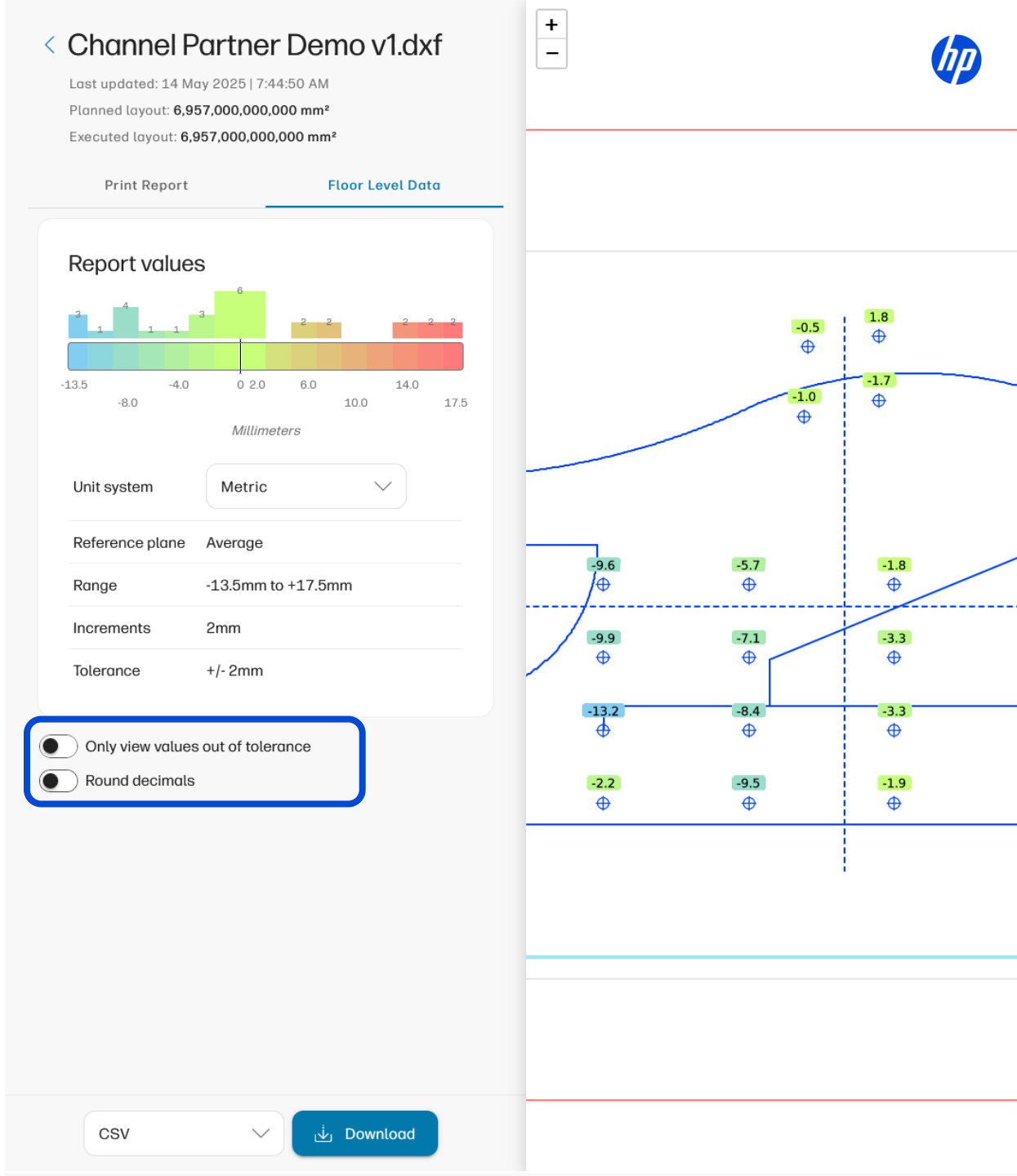
Visualization toggles

- 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

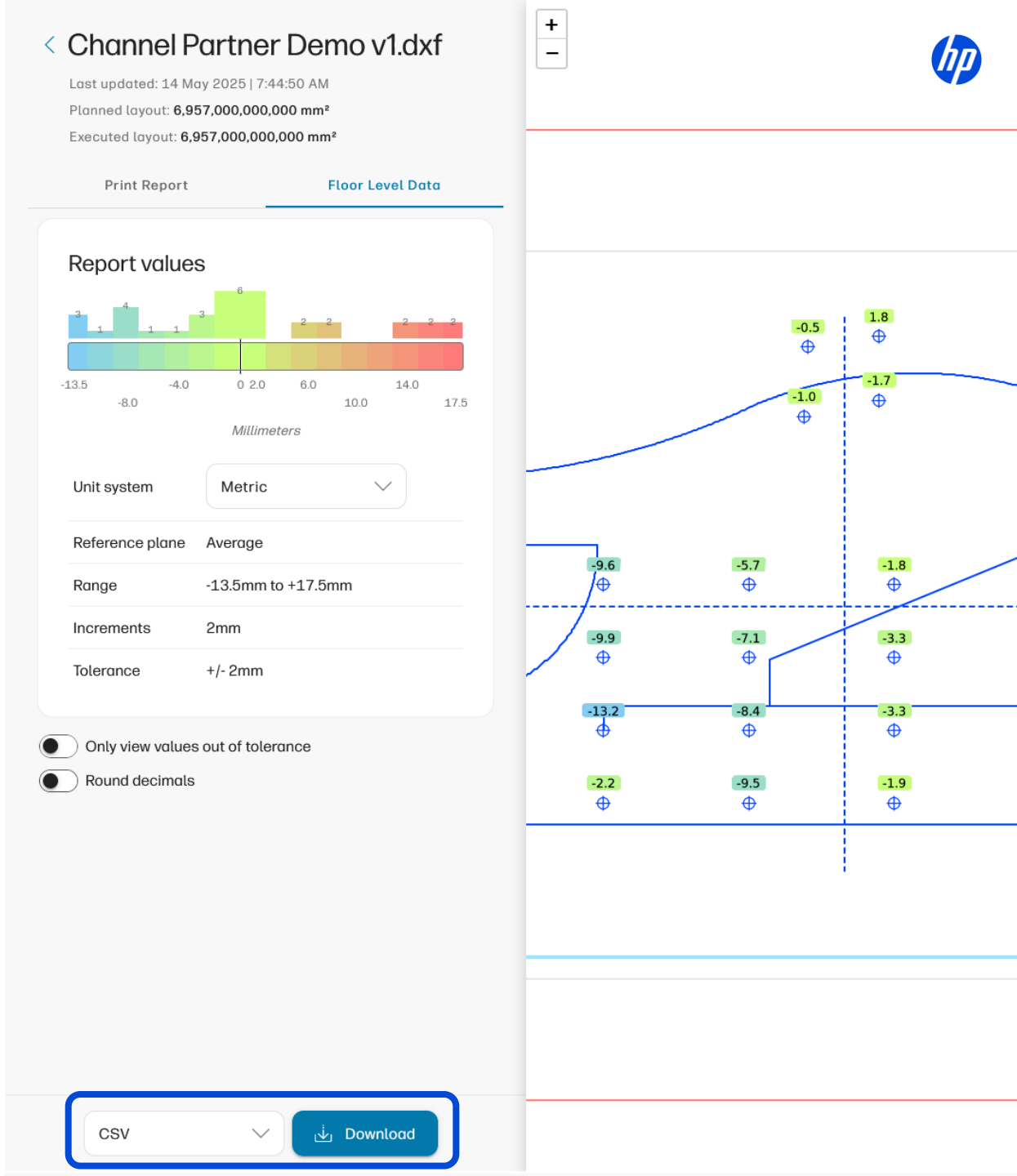
Download a CSV report with the floor level data, in case other documentation needs to be generated.

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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