# Solar Site Survey Checklist

5 Apr 2023 / Christiana De Luna

**Complete**

| Score | **100%** | Flagged items | **0** | Actions | **0** |
|---|---|---|---|---|---|

| | |
|---|---|
| **Document number** | 000001 |
| **Name of client/site** | ApexSpace Buildings, Inc. |
| **Conducted on** | 05.04.2023 10:25 PST |
| **Prepared by** | Christiana De Luna |
| **Location** | 3100 S Sheridan Blvd F, Denver, CO 80227, USA (39.655971, -105.0484371) |

**Personnel**

Solar Site Surveyor Team:
- Ottavio Doran
- Margarita Jacques

| Survey Proper | 100% |
|---|---|

## Site Information

| | |
|---|---|
| **Site/building name** | Frost Creek Spire Center |
| **Type of site surveyed** | Commercial Premises |

Used for office and retail spaces

**Photo of site surveyed**

Photo 1

| | |
|---|---|
| **Name of site agent/manager** | Trevor Felipe |

**Contact information of site agent/manager**

trevor.felipe@apexspace.com

| | |
|---|---|
| **Energy Performance Certificate (EPC) rating** | B |
| **Number of Meter Point Administration Numbers (MPANs) on site** | 2 |

**Specify the MPAN number(s) and their location(s).**

3003756782580 - on site
2745085137483 - retail areas

## Roof Information

100%

| | |
|---|---|
| **Roof type** | Pitched |
| **Roof construction** | Membrane |
| **Roof height (specify unit of measurement)** | 6 meters |
| **Roof length (specify unit of measurement)** | 30 meters |
| **Roof half-span (specify unit of measurement)** | 15 meters |
| **Roof slope or pitch (in degrees, approx.)** | 25 |
| **Roof orientation** | South |

### Other roof measurement(s)

Ridge height: 7 meters
Eaves height: 4 meters

### Photo(s) of roof to be installed


Photo 2


Photo 3

### Internal roof dimensions

Length: 25 meters
Width: 10 meters

### Internal roof details

The internal roof includes skylights and ventilation openings.

### Photo(s) of internal roof


Photo 4

| | |
|---|---|
| **Level of shading** | < 20% |
| **Are there any obvious shading issues?** | No |
| **Is there any evidence of asbestos in the roof material?** | No |

## Main AC Connection Point

| | |
|---|---|
| **Phase type** | Three Phase |
| **Main AC connection fuse rating (in Amps)** | 100 |

### Photo(s) of main AC connection point


Photo 5

## Inverter Location and Fixing Details

**Describe potential inverter locations on the site.**

Potential inverter locations on the site include a utility room on the ground floor or a rooftop installation.

**Attach photos of these locations.**

Photo 6

Photo 7

## Remote Monitoring

100%

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|---|---|
| **Monitoring network type** | Wi-Fi |
| **Type of monitoring system** | Cloud-based monitoring platform |
| **Location of monitoring system** | Office space |

## Assessment

100%

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|---|---|
| **Is the roof orientation of the site suitable for solar installation?** | Yes |

The roof orientation is south-facing, which is the most optimal direction for capturing sunlight.

| | |
|---|---|
| **Is the roof slope or pitch suitable for solar installation?** | Yes |

It falls within the standard range of 15-40 degrees for roof pitches.

| | |
|---|---|
| **Is the roof structurally sound, in good condition, and capable of supporting the weight of solar panels?** | Yes |
| **Does the site have sufficient roof space for solar panels without any shading obstructions from trees, buildings, or other structures?** | Yes |

There are no shading obstructions from trees or other buildings that would significantly impact solar energy production.

| | |
|---|---|
| **Is the site's location conducive to solar energy production, with ample sunlight exposure throughout the year?** | Yes |
| **Is the site free from any local zoning or permitting restrictions that may prohibit or limit solar installation?** | Yes |

| | |
|---|---|
| **Is the site connected to the grid, allowing for net metering or other forms of solar energy export?** | Yes |
| **Is the site's electrical system capable of accommodating the additional load from solar panels, including an appropriate main electrical panel and wiring?** | Yes |
| **Is the site's electrical consumption pattern suitable for solar installation, with high electricity usage during daylight hours?** | Yes |

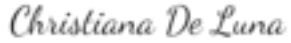
There is high electricity consumption during daylight hours due to the office spaces and retail areas being in operation during the day.

## Management Review and Sign Off

### Comments or observations about the site

Overall, the site appears to be a feasible location for solar installation, with favorable roof characteristics, good sunlight exposure, and a conducive electrical system. However, further detailed engineering and design assessments are recommended to ensure the feasibility and optimal performance of the solar energy system on site. Additionally, obtaining necessary permits and approvals from local authorities should be carried out before proceeding with the installation.

### Name and signature of surveyor




Christiana De Luna
06.04.2023 06:07 PST

## Media summary

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7