

# Criteria and step-by-step process: How to become a Marley Viridian Approved Solar Fitter or Solar Expert

Why become an approved Marley Viridian Solar Expert or Solar Fitter?

- You will be listed on our website as an approved Solar Expert or Solar Fitter.
- You will be provided with well qualified leads on all our Solar Enquiries for the Marley Viridian Integrated Solar Panel Solution e.g., Jan 2022 we received 36 solar leads!
- Project assistance for your first project by our team.
- Be the first to know about workshops or other training days!

1. Determine if you are you a Solar Fitter or a Solar Expert?

**A Solar Fitter** is usually a Roofing Contractor/Installer/Fit and Install Truss-Manufacturer that will be responsible for fitting and installing the solar PV array to the roof in accordance with the solar array design as supplied by a Solar Expert and in accordance with the correct installation practice as provided by Marley Roofing – available from our website in the form of installation videos, installation guides and technical drawings.

**A Solar Expert** is usually referred to as a Solar Installer and is responsible for the design and installation of the full Solar System in accordance with local regulations and their client's needs. This includes connecting the PV Array (Solar Panels) and rest of system below roof, to create either a Grid-Tied, Hybrid or Off-Grid Solar System. A full system might comprise of the following components to create a full solar system: Inverter, Batteries, Dual Meter and Solar PV Units (Solar Panels)

2. How to become an approved Solar Fitter or Solar Expert for Marley Viridian Integrated Solar Panels?

Please contact [sonica.bucksteg@marley.co.za](mailto:sonica.bucksteg@marley.co.za) with documentation that supports the following criteria relevant to your application:

### Solar Fitter:

- Have at least 5-years minimum experience as a fit and install Roofing Contractor or Truss Manufacturer – proof must be supplied of having practiced roofing installations for a minimum period of 5-years.

Roofers that have had an account with Marley Roofing for the past 5-years, already qualify on this point!

- Supply at least 3 residential roofing projects references. These must be from different projects! As an example, three houses based on the same replicated house design for large scale low-cost housing development will not be considered.

Already a Marley Roofing Customer? Your Marley Representative can send us images of your projects as well!

- Having attended a Marley Viridian Solar Practical Installation Session or acquire an 80% result for an online exam. For more information regarding an online exam, please contact [sonica.bucksteg@marley.co.za](mailto:sonica.bucksteg@marley.co.za).

### Solar Expert:

- PVGreenCard or 5-years minimum solar experience – proof must be supplied of having practiced solar installations for a period of 5-years or PVGreenCard Certification to be submitted.
- Supply at least 3 residential solar projects references. These must be from different projects! As an example, three houses based on the same replicated house design for large scale housing development will not be considered.
- Having attended a Marley Viridian Solar Practical Installation Session or acquire an 80% result for an online exam. For more information regarding an online exam, please contact [sonica.bucksteg@marley.co.za](mailto:sonica.bucksteg@marley.co.za).

3. Other than the criteria above, it is expected that both Solar Experts and Solar Fitters also follow and implement professional business practices and principles:
  - a) Risk management – have General Contracts Work Insurance and Common Law Liability in place.
  - b) Practice good work ethic – use of only approved technology as well as checking and submitting of all documentation required by local regulations and municipalities e.g., COC, Pr.Eng. sign off etc.
  - c) Credit check – as per our credit terms & conditions for customers. Marley Roofing will only create an account for businesses that comply with our credit requirements.
  
4. After successful submission of the criteria above, the candidate will now be listed with Marley Roofing as either an approved Marley Viridian Solar Expert (Solar Installers) or Solar Fitter (Roofers)

### **Product Guarantees - Terms & Conditions**

Marley will only recognise product warranties/guarantees or entertain any claims, if a Marley Viridian Approved Solar Expert and/or Solar Fitter has issued Marley Roofing with documentation that details all of the specifications of the Solar System:

- this includes a list of barcodes for each PV Unit
- a checklist (based on PVGreenCard Project Submission) that all of the required installation steps have been completed to Marley's Installation Practices, as well as the required standard and regulations.

These documents can in turn be used by the homeowner as proof of compliance for insurance, finance, and regulatory purposes.

Hence as a guideline in accordance with SAPVIA guidelines:

Currently, municipalities require the PV system to be signed off by Professional Engineer (Pr. Eng.) or Professional Technologist (Pr. Tech.).

On sign-off certain items need to be confirmed:

- PV solar system design approved by Pr. Eng. or Pr. Tech.
- Letter of installation and commissioning approval from Eskom or municipality
- Installation was performed under the supervision of a qualified electrician in accordance with the approved design
- Electrician has to sign a certificate of compliance (CoC) for the installation
- Pr. Eng. signs off an as-built drawing, after system works as specified
- Installer or supplier provides any additional documents and reports for commissioning the PV system to client
- All requested documents must be sent to the network operator for final commissioning and operation approval

For the PV system itself, some measurements must be performed before the PV array is connected to the inverter. According to the international standard IEC 62446, for each string the measurements of Voc and Isc and a polarity and isolation check are mandatory.

As a minimum requirement, the measurement of Voc and a polarity check must be performed before connecting the strings to the inverter. It is reasonable to compare measured and expected values.

The expected value for voltage must consider Voc for the actual module temperature and the number of modules connected in series.

Once the PV system is connected to the AC grid, a string current measurement with a DC clamp can be performed.

A report of all measured values should be part of the system documentation. Always compare measured and expected values in order to find errors in the wiring or malfunctioning modules

In summary, this recognises the solar installation as legal and meeting all the requirements as supported by SAPVIA (Photovoltaic Association of South Africa)

**CONTACT DETAILS:**

Call: 010 600 0284

Email: [info@marley.co.za](mailto:info@marley.co.za)

Web: [www.marleyroofing.co.za](http://www.marleyroofing.co.za) or scan QR code below:



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**MANUFACTURER:**

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