



FLORIDA PRODUCT APPROVAL



FLORIDA BUILDING CODE 2020 REQUIREMENTS

Questions often arise in the solar industry regarding the requirements for installing solar mounting systems in Dade and Broward counties and throughout the rest of Florida. Outlined below are the four requirements to comply with the 2020 Florida Building Code. The first three requirements are necessary for solar racking systems, while the fourth is specific to solar roof attachments. The fifth item, Florida-specific testing, is optional for installation.

1 - UL CERTIFICATIONS

- ▶ Racking UL 2703 (Supplied by EcoFasten)
- ▶ Modules UL 1703 or UL 61730 (See module manufacturer website)
- ▶ Inverters UL 1741 (See inverter manufacturer website)

2 - MODULE LOAD RATING

- ▶ UL 1703 / UL 61730 load rating to meet site conditions pressure for the project (see module manufacturer installation manual or datasheet)
- ▶ Or alternately, Module Mechanical Load Test Report to show that the module meets or exceeds the site conditions load rating

3 - RACKING STRUCTURAL CAPACITY

- ▶ Florida PE stamped system capacity and span tables that meet site conditions and roof zones for the project (Supplied by EcoFasten)

4 - ROOF ATTACHMENTS

- ▶ Structural Capacity certification letters that meet or exceed site conditions (Supplied by EcoFasten)
- ▶ Waterproofing/Flashing per NRCA & FRSA/TRI (Florida) guidelines (Supplied by EcoFasten, when applicable)

5 - OPTIONAL FLORIDA SPECIFIC TESTING OR CERTIFICATIONS

- ▶ Florida Product Approval
- ▶ Miami Dade NOA
- ▶ Water Seal Testing: TAS100(A) (required for HVHZ Florida Product Approval or Miami Dade NOA)

EcoFasten has been awarded Florida Product Approval for the following products:

- SOLAR ROOF ATTACHMENTS - [FL#39871](#)
- CLICKFIT® SYSTEM - [FL#41395](#)
- ROCKIT® SYSTEM - [FL#41656](#)

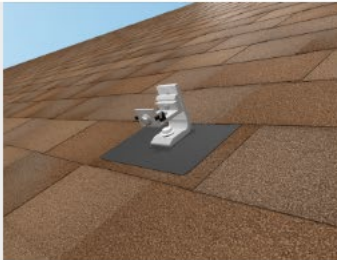

ECOFASTEN ROOF ATTACHMENTS – FLORIDA COMPLIANT

SOLAR ROOF ATTACHMENTS – [FL#39871](#)

EcoFasten offers four roof attachments that meet the specifications for installation in the State of Florida, which are GF-1 with the ClickFit Universal L-Foot, GF-1 with the RockIt Comp Slide, RockIt Smart Slide and QB-1 as shown below.



GF-1 WITH CLICKFIT L-FOOT

Florida approved for any combination of 8"x12" GF-1 flashing with the ClickFit L-foot & Lag Screw



SMART FOOT AND CLICKER

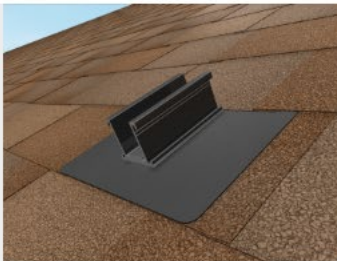

Florida approved for any combination ClickFit Smart Foot with the ClickFit Clicker & 2-6 Smart Foot Screws



Listed under FL#41395

GF-1 WITH ROCKIT SLIDE

Florida approved for any combination of 8"x12" GF-1 flashing with the RockIt Comp Slide & Lag Screw



ROCKIT SMART SLIDE

Florida approved RockIt Smart Slide and 2-8 Smart Slide Screws



QB-1

Florida approved for any combination of 4.5" or 6" QB-1 Post, Base, and Flashing



GF-1® with Compression Brackets

GF-1 is a versatile solution for use on composition shingle roofs. The 8" x 12" flashing installs with a single fastener and when combined with an EcoFasten compression bracket, a watertight seal is created, maintaining the integrity of the roof.

Available GF-1 SKUs:

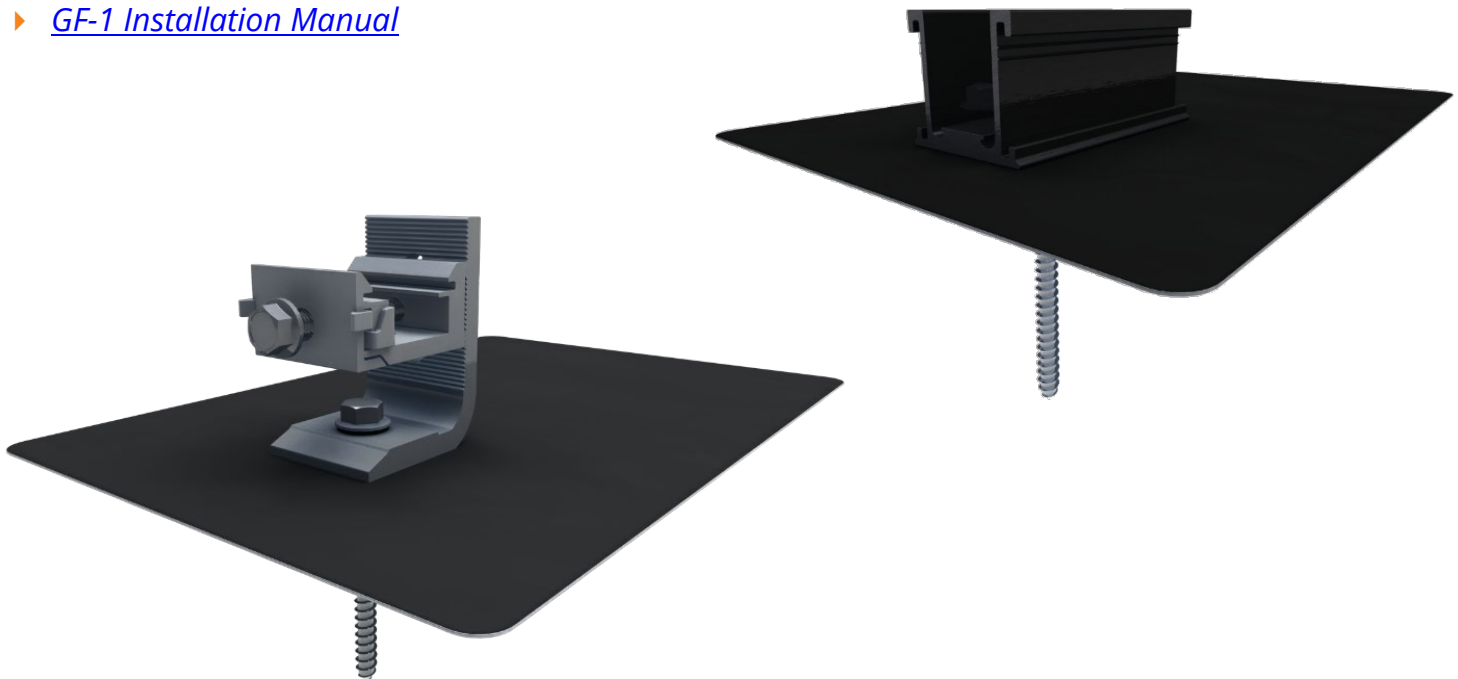
- 3012010 - GF-1 FLASHING GLV BLK 8x12"
- 3012011 - GF-1 FLASHING GLV MLL 8X12"

Available Compression Brackets:

- 2011012 - RI COMP SLIDE AL BLK
- 2012022 - CF UNIV L-FOOT MLL 3"

GF-1 Structural Capacity Documentation for Permit Packets

- ▶ [ClickFit L-Foot Capacity Report 07.29.2021](#)
- ▶ [RockIt Uplift-Lateral Testing Report 11.23.2021](#)
- ▶ [GF-1 Installation Manual](#)



WATERPROOFING PER NRCA GUIDELINES

Designed and Certified for Compliance with the Florida Building Code & ASCE/SEI-7

ECOFASTEN ROOF ATTACHMENTS – FLORIDA COMPLIANT

RockIt® Smart Slide

The patent pending RockIt Smart Slide, is our simple solution for quickly installing the popular RockIt rail-less racking system to composition shingle roofs.

Available RockIt SKUs:

- 2011024 – RI SMART SLIDE BLK 6.75"
- 2011025 – RI SMART SCRW #12X3" W/BW

RockIt Smart Slide Structural Capacity Documentation for Permit Packets

- ▶ [UL441 Rain Report](#)
- ▶ [TAS 100 \(A\)-95 Wind and Wind Driven Rain Resistance](#)
- ▶ [Mechanical Load Test/Structural Capacity Certification](#)
- ▶ [RockIt Installation Manual](#)



WATERPROOFING PER NRCA GUIDELINES

Designed and Certified for Compliance with the Florida Building Code & ASCE/SEI-7

ECOFASTEN ROOF ATTACHMENTS – FLORIDA COMPLIANT

QB-1®

QB-1 uses a super strong base that can be used on composition shingle, tile, shake, slate, metal shingle, and low slope rooftops. This is a rail-based solution is ideal for new residential construction projects. The base can be installed prior to the roofing material, allowing for the roof to be shingled or tiled around the posts.

Available QB-1 SKUs:

- 3017010 - QB-1 BASE AL
- 3017011 - QB-1 POST AL MLL 4.5"
- 3017012 - QB-1 POST AL MLL 6.5"
- 3017013 - QB-1 FLASHING AL MLL 12X12"
- 3017015 - QB-1 EPDM COLLAR BLK 1.25"

QB-1 Structural Capacity Documentation for Permit Packets

- ▶ [QB-1 State of Florida Certification Letter 07.29.2021](#)
- ▶ [QB-1 Installation Manual](#)



STRUCTURAL CERTIFICATION

Designed and Certified for Compliance with the Florida Building Code & ASCE/SEI-7

WATERPROOFING PER NRCA GUIDELINES

Designed and Certified for Compliance with the Florida Building Code & ASCE/SEI-7

ECOFASTEN RACKING SYSTEM – FLORIDA COMPLIANT

APPROVED RACKING & MOUNTING SYSTEMS:

CLICKFIT SYSTEM – [FL#41395](#)

ClickFit®

ClickFit is one of the fastest installing rail-based systems in the industry. With its click-in rail assembly, the rails can be connected to any of EcoFasten's composition shingle, tile, and metal roof mounts in seconds without the need for fasteners or tools. The ClickFit system is made of robust, anti-corrosive materials, such as aluminum and cold-formed coated steel, to ensure strength, corrosion resistance, and longevity.

Available ClickFit SKUs:

- 2012012 – CF RAIL AL MLL 165.4"
- 2012013 – CF RAIL SPLICE SS
- 2012014 – CF END CAP BLK
- 2012022 – CF UNIV L-FOOT MLL 3"
- 2012025 – CF STD RAIL AL MLL 171.5"
- 2012028 – CF SMART FOOT W/CLKR AL MLL
- 2099016 – CF/RF END CLAMP AL BLK 30MM
- 2099018 – CF/RF END CLAMP AL BLK 35MM
- 2099019 – CF/RF END CLAMP AL BLK 38MM
- 2099020 – CF/RF END CLAMP AL BLK 40MM
- 2099039 – CF/RF END CLAMP AL BLK 30-40MM
- 2099022 – CF/RF MID CLAMP AL BLK 30-40MM
- 2099023 – CF/RF MID CLAMP AL BLK 40-50MM
- 3016018 – SCREW #14X3" W/BW

ClickFit UL 2703 Certification for Permit Packets

- ▶ [ClickFit UL 2703 Approved Installation Manual](#)

ClickFit Module Load Rating/Span Tables for Permit Packets

- ▶ [ClickFit Florida Master Letter Certification \(LTE Rail\) 10.12.2021](#)
- ▶ [ClickFit Florida Master Letter Certification \(STD Rail\) 01.03.2023](#)

ClickFit Waterproofing for Permit Packets

- ▶ [ClickFit UL 441 Rain Report 03.17.2021](#)

ECOFASTEN RACKING SYSTEM – FLORIDA COMPLIANT

ROCKIT SYSTEM – [FL#41656](#)

RockIt®

The innovative RockIt system conforms to UL 2703 and is the solar industry's premier rail-less PV racking system for use on a variety of roof types including composition shingle, tile (flat, S, and W), and metal pitched rooftops.

Available RockIt SKUs:

- 2011013 – RI COMP SLIDE AL BLK
- 2011024 – RI SMART SLIDE BLK 6.75"
- 2011025 – RI SMART SCRW #12X3" W/BW
- 2011020 – RI MOUNT AL BLK
- 2011021 – RI COUPLING AL BLK

RockIt UL 2703 Certification for Permit Packets

- ▶ [RockIt UL 2703 Approved Installation Manual](#)

RockIt Module Load Rating/Span Tables for Permit Packets

- ▶ [RockIt Florida Master Letter Certification \(Comp Slide & Smart Slide\) 06.19.2023](#)

PERMITTING PACKETS

Listed below is the documentation you will need to provide to your AHJ for permitting approval. Click on the link to download the file(s).

FLORIDA PRODUCT APPROVAL:

- ▶ [Florida Product Approval FL#39871](#)
- ▶ [FL#39871 Installation Instructions](#)
- ▶ [FL#39871 Evaluation Report](#)
- ▶ [Florida Product Approval FL#41395](#)
- ▶ [FL#41395 Installation Instructions](#)
- ▶ [FL#41395 Evaluation Report](#)
- ▶ [Florida Product Approval FL#41656](#)
- ▶ [FL#41656 Installation Instructions](#)
- ▶ [FL#41656 Evaluation Report](#)

UL 2703 CERTIFICATIONS:

- ▶ [ClickFit UL 2703 Approved Installation Manual](#)
- ▶ [RockIt UL 2703 Approved Installation Manual](#)

STRUCTURAL CERTIFICATIONS:

- ▶ [ClickFit L-Foot Capacity Report 07.29.2021](#)
- ▶ [ClickFit Florida Master Letter Certification \(LTE Rail\) 10.12.2021](#)
- ▶ [ClickFit Florida Master Letter Certification \(STD Rail\) 01.03.2023](#)
- ▶ [RockIt Florida Master Letter Certification \(Comp Slide & Smart Slide\) 06.19.2023](#)
- ▶ [RockIt Uplift-Lateral Testing Report 11.23.2021](#)
- ▶ [UL441 Rain Report](#)
- ▶ [TAS 100 \(A\)-95 Wind and Wind Driven Rain Resistance](#)
- ▶ [Mechanical Load Test/Structural Capacity Certification](#)
- ▶ [QB-1 State of Florida Certification Letter 07.29.2021](#)

WATERPROOFING:

- ▶ [ClickFit UL 441 Rain Report 03.17.2021](#)

INSTALLATION MANUALS:

- ▶ [GF-1 Installation Manual](#)
- ▶ [QB-1 Installation Manual](#)

PERMITTING PACKETS

OPTIONAL CUT SHEETS:

- ▶ [2011013 – RI COMP SLIDE AL BLK](#)
- ▶ [2011020 – RI MOUNT AL BLK](#)
- ▶ [2011021 – RI COUPLING AL BLK](#)
- ▶ [2011024 – RI SMART SLIDE BLK 6.75"](#)
- ▶ [2012012 – CF RAIL AL MLL 165.4"](#)
- ▶ [2012013 – CF RAIL SPLICE SS](#)
- ▶ [2012014 – CF END CAP BLK](#)
- ▶ [2012028 – CF SMART FOOT W/CLKR AL MLL](#)
- ▶ [2012021 – CF STD RAIL MLL AL 165.4"](#)
- ▶ [2012022 – CF UNIV L-FOOT MLL 3"](#)
- ▶ [2012025 – CF STD RAIL AL MLL 171.5"](#)
- ▶ [2099016 – CF/RF END CLAMP AL BLK 30MM](#)
- ▶ [2099018 – CF/RF END CLAMP AL BLK 35MM](#)
- ▶ [2099019 – CF/RF END CLAMP AL BLK 38MM](#)
- ▶ [2099020 – CF/RF END CLAMP AL BLK 40MM](#)
- ▶ [2099021 – CF/RF END CLAMP AL BLK 45MM](#)
- ▶ [2099022 – CF/RF MID CLAMP AL BLK 30-40MM](#)
- ▶ [2099023 – CF/RF MID CLAMP AL BLK 40-50MM](#)
- ▶ [2099039 – CF/RF END CLAMP AL BLK 30-40MM](#)
- ▶ [3012010 – GF-1 FLASHING GLV BLK 8x12"](#)
- ▶ [3012011 – GF-1 FLASHING GLV MLL 8X12"](#)
- ▶ [3016018 – SCREW #14X3" W/BW](#)
- ▶ [3017010 – QB-1 BASE AL](#)
- ▶ [3017011 – QB-1 POST AL MLL 4.5"](#)
- ▶ [3017012 – QB-1 POST AL MLL 6.5"](#)
- ▶ [3017013 – QB-1 FLASHING AL MLL 12X12"](#)
- ▶ [3017015 – QB-1 EPDM COLLAR BLK 1.25"](#)

PRODUCT APPROVALS ARE NOT ALWAYS REQUIRED, HERE'S WHY:

FLORIDA PRODUCT APPROVAL

In Florida, the building code requires only certain products be tested and evaluated by an engineer, architect, or approved test agency. These product categories include: panel walls, exterior doors, roofing, skylights, windows, shutters, impact protective systems, and structural components as established by the commission by rule. **Rooftop PV racking is not one of those product categories.**

Statewide approval of products, methods, or systems of construction may be achieved by one of the following methods. Option 1 - For products that are specifically addressed in the Code through performance criteria and standard test methods or standard comparative or rational analysis methods, which cannot be approved through the plan review and inspection process, shall demonstrate compliance with the Code through multiple options. Option 2 - An evaluation report from a Florida Registered Architect or a licensed Florida Professional Engineer developed and signed and sealed, based upon standard tests or standard comparative or rational analysis, or a combination thereof and indicates that the product was evaluated to be in compliance with the Code and that the product is, for the purpose intended, at least equivalent to that required by the Code.

For more information, refer to the [2021 Florida Statute 553.842 \(5\)](#) that lists certain categories of products that MUST be approved by the commission.

MIAMI-DADE NOA

Miami Dade NOA's (meaning Notices of Acceptance), contrary to popular understanding, are in themselves NOT approved as a statewide product approval, they are a local product approval to meet the code criteria in the High Velocity Hurricane Zone as defined by the Florida building Code. There are only a few product types that require a Miami DADE NOA per the Florida statutes, and only for products protecting a habitable structure; they are Panel Walls, Exterior Doors, Roofing Products, Skylights, Windows, Shutters and Structural Components. **Rooftop PV racking is not one of those product categories.** Engineers can evaluate a product in Miami-Dade without a local certification if the local approval method, [section 553.8425 \(d\) of 2021 Florida Statutes](#), and the 2020 Florida Building Code, is followed.

CONTACT ECOFASTEN

4141 W Van Buren Street, Suite 2, Phoenix, AZ 85009

877.859.3947 | ecofastensolar.com

