

GreenGrid®

Module Fastening



Fastening GreenGrid® modules may be recommended under certain conditions. The determination to fasten modules may be based on several factors including building location, height, and geometry; presence or absence of parapets and rooftop equipment; prevailing wind direction; or design wind speed areas. Module fastening may be recommended over the entire green roof area or in specific zones where wind uplift conditions may be more extreme (e.g., corners, edges, and exposed areas).

The determination of whether to fasten modules shall be made by the project's licensed design professional using current wind engineering practices and design guidance such as **ANSI/SPRI RP-14 "Wind Design Standard for Vegetative Roofing Systems."**

If it is determined by the design professional that module interlocking is warranted, the following materials and procedures are recommended. Only one fastening method is required.

→ **GreenGrid® modules may be fastened together using the heavy-duty cable ties method.**

- Cable ties (e.g., zip-ties) should consist at a minimum of black, UV stabilized nylon measuring 5/16" wide by 7.5" long and have a break strength of 120 lbs. or greater. Self-locking stainless steel cable ties of similar length and break strength are also recommended and should be considered for demanding climate conditions.

→ **Fastening Method**

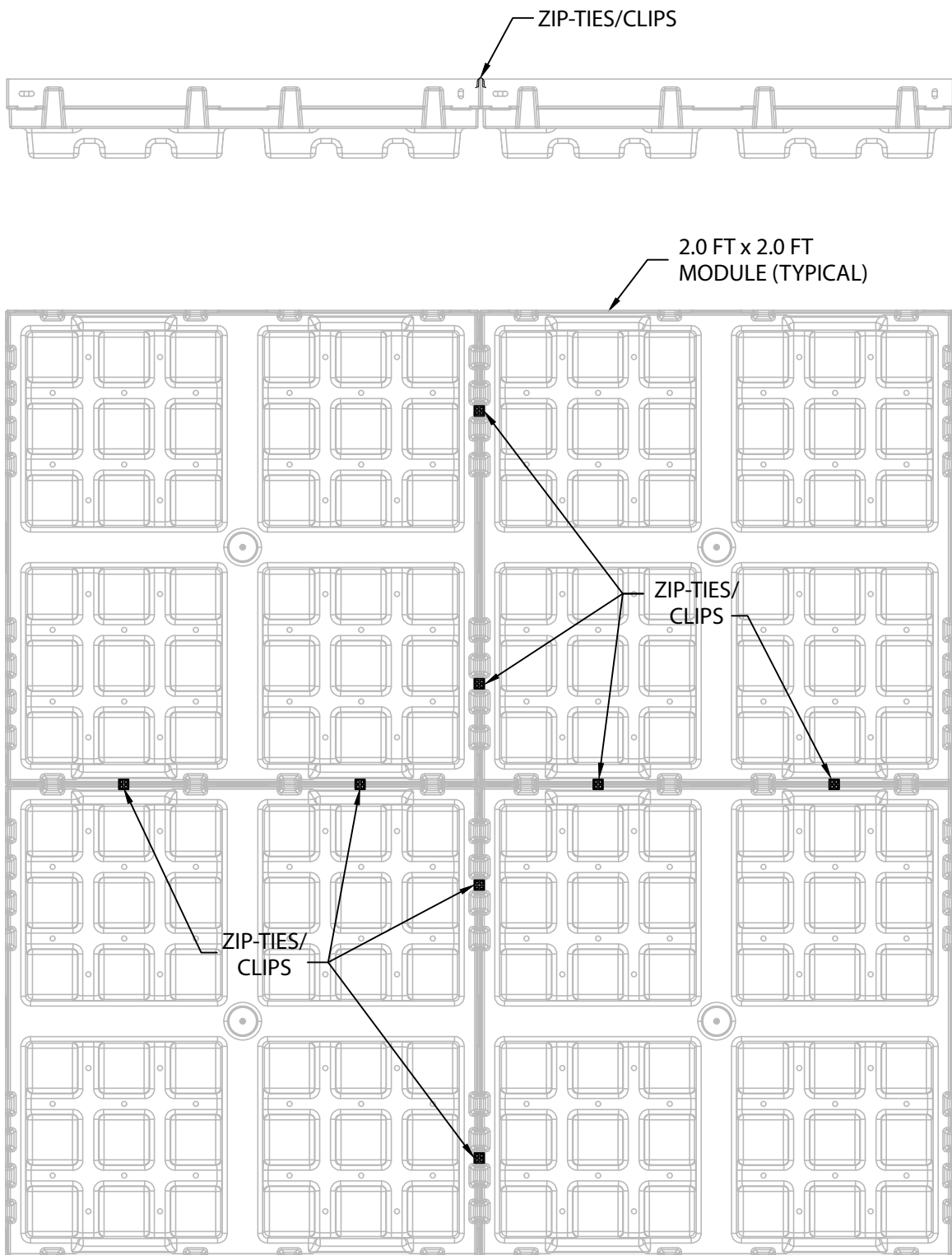
- Modules should be fastened at a minimum of two positions on each side of the module (2'x2' module dimension).
- Module should be drilled using a 3/8" drill bit approximately 1/2 to 3/4 inch below the top edge of the module.
To ensure proper hole alignment between modules should be installed in their final location and fit tightly against each other and should be properly aligned using the module alignment notches.
Gently scrape or push away growth media and vegetation from the module walls to be drilled and fastened, just enough to allow access for the drill and drill bit.
- Install nylon or stainless steel cable ties by threading them through both modules and pulling them tight to lock.
- Excess cable tie ends should be removed using snips.

→ **GreenGrid® modules may be fastened together using the mounting fastener clips method.**

- Mounting fastener clips should consist at a minimum of black anti-corrosive stainless steel with inward-facing connector hooks measuring approximately 1/2" wide by 5/8" or longer.

→ **Fastening Method**

- Modules should be fastened at a minimum of two positions on each side of the module (2'x2' module dimension).
- To ensure proper hole and/or clip alignment between modules, modules should be installed in their final location and fit tightly against each other and should be properly aligned using the module alignment notches.
Gently scrape or push away growth media and vegetation from the modules walls where the clips will be mounted.
- Install the mounting fastener clips by pushing the clip openings down the walls of both modules and use a hammer to push the clip down as far as possible for a secure fit.



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 U.S. patent 7,997,027
 Canadian patents 2,416,457 / 2,416,463 / 2,418,262

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