



SUPPLEMENTAL ROOFTOP INSTALLATION GUIDE

Planning

Be sure to speak with your architect and/or project engineer to ensure appropriate permits are obtained prior to installation. Take into consideration:

- Load limits – confirm that all materials will not exceed the roof top load limits. e.g. Typical rooftops will not support a super sack (2000 lbs.) of sand.
- Drainage plan – the roof top drainage method may affect the type of base you utilize. Drainage method should be specified by the architect or project engineer.
- Material delivery to installation location will vary depending on job type.
 - > For small jobs a service elevator may be necessary.
 - > For a medium job an A-Frame hoist may be used for moving materials to the roof as well as moving materials on the roof.
 - > For large jobs a crane may be required and a qualified rigging professional may be required. Arrangement of traffic control may be required.

Materials

- A shock pad may be utilized during installation. *Please refer to Shawgrass sundries list for recommended shock pads.* A Shock pad will provide some level of fall protection for playground or sports application. Padding

should also allow for drainage underneath the turf surface. Shock pad can be used to fill gaps as well.

- An elastic layer (e-layer) consisting of rubber granulate and polyurethane binder may be used to fill gaps or provide a smooth surface.
- A self-leveling compound can also be used to fill gaps or provide a smooth surface.

Base Construction

On all synthetic turf installations it is critical that the base material be smooth. The existing rooftop pitch should be maintained to support existing drainage. Site preparation methods may vary based on the roof material.

For an irregular roof surface (sloped concrete, cracked concrete, tar roof or other):

- A shock pad, e-layer or self-leveling compound can be used to fill gaps or provide a smooth surface. Use cementitious patching and leveling compounds that meet or exceed Shaw's maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.

Installation

Installation of synthetic turf on a roof surface will be similar to other installations once the roof surface is level.

On a smooth concrete roof you may:

- Use adhesive and glue turf directly to the concrete.

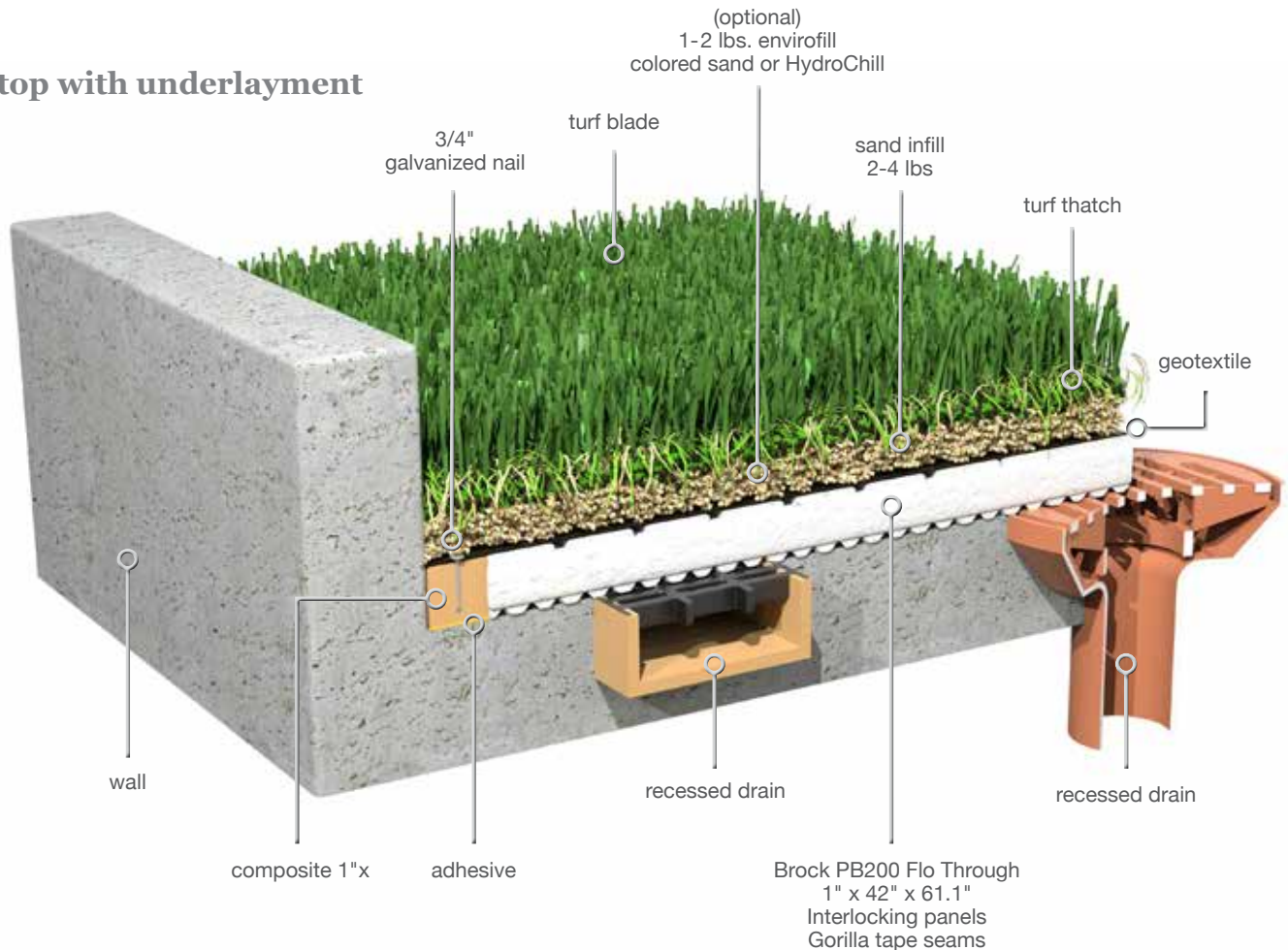
On a roof with e-layer or leveling compound:

- Use adhesive and glue turf directly to the concrete, e-layer or leveling compound.

On a roof with shock pad:

- Secure a nailer board to the roof surface with adhesive around the edge of the shock pad. Use nails to secure the edge of the turf to the nailer-board. [See Section 8.B \(Nailer Board\) of Installation Guidelines.](#)

Rooftop with underlayment



Rooftop perimeter glue

