

Firestone

Firestone Building Products

SkyScape™ Vegetative Roof System Design & Installation Guide

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This guide describes considerations necessary for appropriate design and installation of SkyScape Vegetative Roof Systems, and outlines the minimum requirements for a Firestone Red Shield™ Warranty. Statements in this guide are provided in good faith and with the expectation that a design professional will be consulted prior to commencement of any vegetative roof system project.

NOTE: To be eligible for warranty, all roofing systems and vegetative roof systems must meet the Firestone technical standards, warranty requirements, and system specifications for the system type selected. For complete technical information, including Technical Information Sheets, detail drawings, and sample warranties, please refer to the Firestone website: www.firestonebpc.com. Local code and/or insurance requirements may require specific enhancements.

I. Roofing System Design

Firestone can provide a broad scope of roofing system design assistance and product recommendations to architects, consultants, and other specifiers; however, Firestone does not engage in the practice of architecture or engineering.

A. General Notes

1. A minimum roof slope of ¼":12" (2%) is required. Contact Firestone Technical Services regarding installations at slopes greater than 2":12" (17%). See also the section of this guide regarding SkyScape Steep-Slope Vegetative Roof Systems for general recommendations regarding enhancements necessary for slopes greater than 2":12" (17%).
2. Precaution must be taken when SkyScape systems are installed in high wind areas as shown in the ASCE-07 Peak Wind Gust maps. Contact Firestone Technical Services for additional requirements for projects in these areas.

B. Deck

1. A certified Structural Engineer should be consulted during the design phase to determine the structural load capacity of the project deck.
2. Load should account for the maximum potential weight of the SkyScape Vegetative Roof System under full wet conditions.

C. Insulation

1. Insulation thickness should always achieve the ASHRAE 90.1 R-value recommended for the project location.
2. Firestone ISOGARD™ GL, either 20 psi (138 kPa) or 25 psi (172 kPa), in 2 layers of at least 1" (25 mm) each, is recommended.

D. Coverboard

1. Firestone ISOGARD HD 80 psi (552 kPa) high-density polyiso coverboard, or a minimum ¼" (6 mm) glass mat gypsum board, should be installed using a Firestone polyurethane foam adhesive, such as I.S.O. Twin Pack™ Adhesive, I.S.O. FIX™ II Adhesive, I.S.O. Stick™ Insulation Adhesive, Twin Jet, or I.S.O. Spray™ R Adhesive.

E. Membrane

1. Firestone SkyScape Vegetative Roof Systems may be installed over any of the following Firestone fully adhered roofing membranes:
 - a) UltraPly™ TPO Membrane
 - (1) 45 mil (1.14 mm) or 60 mil (1.52 mm)
 - (2) 80 mil (2.03 mm) UltraPly TPO Platinum Membrane
 - (3) UltraPly TPO XR 115 [60 mil (1.52 mm)] or UltraPly TPO XR 135 [80 mil (2.03 mm)] Membrane (Fleece-backed)
 - b) RubberGard™ EPDM Membrane
 - (1) 60 mil (1.52 mm) Non-Reinforced RubberGard
 - (2) 60 mil (1.52 mm) or 75 mil (1.91 mm) RubberGard MAX (Reinforced)
 - (3) 90 mil (2.29 mm) RubberGard Platinum™ EPDM Membrane
 - c) Firestone Modified Bitumen (min. 2 plies) – Root Barrier Required per Sec. II.A.2
 - (1) SBS Smooth, SBS Premium Poly/Poly Torch Base, SBS Premium (incl. FR, Torch, FR/Torch)
 - (2) APP 160/160 Cool, APP 170/170 Cool, APP 180 (incl. FR, Cool, FR/Cool), APP Premium FR

II. SkyScape Vegetative Roof Systems & Products

A. Root Barriers

1. Additional root barriers are not required when fully-adhered Firestone RubberGard EPDM or Firestone UltraPly TPO are installed as the roofing membrane. All approved thicknesses of these Firestone membranes have been tested and approved as root barriers according to the guidelines established by *Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau* (FLL).
 - a) RubberGard EPDM must be stripped in with a 1½" (38 mm) o.c. bead of Firestone Pourable Sealer S-10 to meet FLL criteria.
 - b) UltraPly TPO does not need to be stripped in; however, all seams should be carefully inspected to ensure that they are fully welded prior to installation of the SkyScape Vegetative Roof System.
2. When installing SkyScape over Firestone modified bitumen roofing membrane, a sacrificial layer of either Firestone UltraPly TPO or RubberGard EPDM (completed seams are required for both; RubberGard seams must be stripped in accordance with Sec. II.A.1.a.), or SkyScape Root Barrier with seams taped using SkyScape Root Barrier Tape, is required.

B. SkyScape Pregrown Modular System

1. Module

- a) SkyScape 15" x 20" x 5¾" (381 x 508 x 146 mm) Module, made from recycled high-density polyethylene.
- b) Module sides are perforated to allow for soil-to-soil contact throughout the entire depth of the growing media, enabling sharing of nutrients between modules.
- c) Module floor features unitized design for optimal balance between water retention and drainage.
- d) Modules interlock on all four sides, creating a monolithic system.
- e) Modules maintain their shape under hydraulic pressure and growing media mass.
- f) Irrigation sprinkler rotator heads can be installed into the SkyScape Modules prior to commencing vegetation growth, creating an integrated irrigation system.

2. Growing Media

- a) SkyScape Growing Media is blended at our regional blending locations.
- b) Meets FLL Standards for growing media.
- c) Modules are set in place and filled with media in the field.
- d) Modules achieve 4" (102 mm) growing media depth at time of planting.

3. Plants

- a) A blend of rooftop-hardy Sedum varieties is planted in the SkyScape Module, and is field-grown in open country to promote plant hardiness.
- b) Custom plants called out in a project's specification may be added to our standard Sedum blend. Firestone can provide design assistance in selecting custom plants that complement the base plantings.
- c) The SkyScape Pregrown Modular System arrives fully grown and ready to install.
- d) Delivered weight of each SkyScape Pregrown Module is 50 lb (23 kg).
- e) Maximum system weight after installation (fully wet): 32 lb/ft² (156 kg/m³).

C. SkyScape Built-In-Place Systems

1. SkyScape Extensive System

- a) Drainage
 - (1) SkyScape ½" (13 mm) Drainage Panel features engineered cup design for the optimal water retention needed for extensive systems.
 - (2) Geotextile factory-bonded to the underside of the panel.
 - (3) Filter Fabric factory-bonded to the top of the panel.
- b) Growing Media
 - (1) SkyScape Growing Media ranges 3" – 6" (76 – 152 mm) in depth.
 - (2) Regionally blended to fit the growing conditions inherent to the project's climatic zone.
 - (3) Meets FLL standards.

- c) Plants
 - (1) SkyScape Sedum Mats are recommended, either as the entire planting, or as a base for selected custom plants.
 - (2) Custom plants recommended are hardy Sedum or succulents; Firestone can provide design assistance in selecting custom plants that complement the base plantings.
- 2. SkyScape Semi-Intensive System
 - a) Drainage
 - (1) SkyScape ½" (13 mm) or 1" (25 mm) Drainage Panel, with engineered cup design for optimal water retention needed for semi-intensive systems.
 - (2) Geotextile factory-bonded to the underside of the panel.
 - (3) Filter Fabric factory-bonded to the top of the panel.
 - b) Growing Media
 - (1) SkyScape Growing Media ranges 6" – 8" (152 – 203 mm) in depth.
 - (2) Regionally blended to fit the growing conditions inherent to the project's climatic zone.
 - (3) Meets FLL standards.
 - c) Plants
 - (1) Hardy Sedum varieties are typical, with additional custom plants for a truly "designed" vegetative roof.
 - (2) Custom plants may include sedum plugs, ornamental perennials, grasses, bulbs, and the SkyScape Sedum Mat. Firestone can provide design assistance in selecting custom plants that complement the base plantings.
 - (3) Irrigation is recommended for Semi-Intensive Systems.
- 3. SkyScape Intensive System
 - a) Drainage
 - (1) SkyScape 1" (25 mm) or 1¼" (32 mm) Drainage Panel, with engineered unitized design for optimal water retention needed for intensive systems.
 - (2) Air void layer included with 1¼" (32 mm) Drainage Panel is included to allow for proper air migration through the system.
 - (3) Filter fabric is bonded to the top side of the air void layer.
 - b) Growing Media
 - (1) SkyScape Growing Media, 8" (203 mm) or greater depth
 - (2) Regionally blended to fit the growing conditions inherent to the project's climatic zone.
 - (3) Meets FLL standards.
 - c) Plants
 - (1) SkyScape Sedum Mat, ornamental perennials, grasses, bulbs, native forbs, shrubs, and small trees may all be included, as approved by the designer.
 - (2) It is important that designers take into consideration the unique characteristics of the microenvironment of a rooftop, and the ways in which rooftop gardens differ from gardens at ground level. Conditions on a rooftop can include increased wind speeds, drier conditions than on ground level at the same location, lack of natural ground-level overhead protection such as trees, potential emissions from rooftop units and pipes, drainage that is unique to each roof, and many others. Firestone offers design assistance to help inform the designer of the unique properties of the project rooftop environment, and can suggest designs, systems, and products that can help successfully realize the designer's intent and vision for the garden space.
 - (3) To ensure that the rooftop garden thrives and proliferates, Intensive Systems require a robust and proactive maintenance schedule following installation and lasting throughout the life of the system. The maintenance plan for rooftop gardens should always include irrigation. Firestone can assist in the creation of a maintenance plan unique to the design of the project, including an irrigation plan and products.
 - d) SkyScape Accessories
 - (1) Edge Flashing
 - (a) Module Edging
 - (i) Aluminum with natural mill finish
 - (ii) 6 x 3" (152 x 76 mm)
 - (iii) Required for all module systems unless rock or pavers are installed along the edge of the system.

- (b) Edge Flashing for Built-In-Place Systems
 - (i) Aluminum with natural mill finish
 - (ii) Four standard sizes:
 - (a) 4½" x 3¼" (114 x 83 mm)
 - (b) 6½" x 3¼" (165 x 83 mm)
 - (c) 8½" x 3¼" (216 x 83 mm)
 - (d) 10" x 3¼" (254 x 83 mm)
 - (iii) Custom sizes are available to meet any design condition; please contact Firestone Technical Services with requests.
- (2) Irrigation
 - (a) Module Systems: SkyScape MP Sprinkler Rotator Heads are installed into the module prior to growing, resulting in a fully-integrated irrigation system. Sprinkler heads are fitted to connectors below the module, and piping/hosing (by others) runs underneath the system, above the roof surface.
 - (b) Built-In-Place Systems: SkyScape MP Sprinkler Rotator Heads may be incorporated into the system during installation. Contact Firestone Technical Services for assistance with creating a sprinkler plan. Other means of irrigation are allowed but may not be included in the Firestone warranty.
 - (c) SkyScape Pavers and Pedestal Systems
 - (i) Firestone 24" x 24" x 1 7/8" (610 x 610 x 48 mm) concrete pavers come in 6 colors, have outstanding compressive strength [8,000 psi (55,158 kPa)], and can create a beautiful finished surface within and around a vegetative roof system.
 - (ii) Pavers can also be used to fill vegetative-free zones at roof edges and around penetrations, drains, and other deck protrusions.
 - (iii) Pavers may be set either on Firestone Fixed Height Pedestals, or a no-slope paver area may be created by using Firestone ScrewJack Adjustable Pedestals.
 - (iv) May be used to create walkways, or for use as a plaza deck.

III. Maintenance and Warranty

A. Maintenance

1. Maintenance is essential to vegetative roof systems, as each installation creates a living system on the roof. Like any living system, vegetative roof systems must have proper care and feeding to survive.
2. The SkyScape Maintenance Guide, available online at www.firestonebpco.com, provides general guidelines for the care of SkyScape Pregrown Modular and SkyScape Extensive Systems. Semi-Intensive and Intensive Systems, due to the nature of their designs, require project-specific maintenance plans that go beyond the scope of the Maintenance Guide. Firestone can assist you in creating a unique maintenance plan for your Semi-Intensive or Intensive vegetative roof system.

B. Warranty

1. Firestone provides a single-source warranty covering both the roofing system and vegetative roof system.
2. The SkyScape Vegetative Roof System must be installed by a licensed Red Shield Installer to be eligible for a Firestone SkyScape warranty.
3. The SkyScape Warranty options shown below may be purchased in any combination.
4. All warranty requirements as indicated in the relevant Firestone Design Guide and Maintenance Guide for each system type must be followed.
5. Only Firestone brand products are covered in the Red Shield Warranty.
6. See the table on the following page for available SkyScape Warranty coverage descriptions, including Materials, Overburden, and 2-Year Plant Growth coverages.

SKYSCAPE WARRANTY	
SkyScape Warranty Options	Coverage Description
MATERIALS	Firestone SkyScape components will not deteriorate to the point of failure; covers modules, drainage panels, edge metal, accessories, and engineered growth medium, for the length of the Red Shield Warranty (up to 30 years). Includes plant growth will be at least 80% of original planting for first 90 days after installation.
2-YEAR PLANT GROWTH	Firestone plants will cover at least 50% of the garden roof area 12 months from the date of installation, and at least 80% of the garden roof area 24 months from the date of installation, or Firestone or its agent will plant additional vegetation to achieve the stated percentages. General maintenance as outlined in the SkyScape Maintenance Guide must be followed to continue warranty coverage throughout the entire two-year period, and the required reports
OVERBURDEN	Firestone will remove and replace the SkyScape System overburden to locate and repair a properly reported leak.

IV. Contribution to LEED® Green Building Certification Program

A. LEED Points

1. Firestone SkyScape Vegetative Roof Systems can help contribute up to 41 points towards a building projects' LEED certification. Applicable LEED points are available for the credit examples listed in the table below. (*LEED Reference Guide for Green Building Design and Construction*)

FIRESTONE SKYSCAPE & LEED		
Credit	Category	Potential Points
1. Sustainable Sites (SS)		
SS Credit 5.1 & 5.2	<i>Site Development – Protect or Restore Habitat</i>	2
SS Credit 6.1 & 6.2	<i>Storm Water Design – Quantity & Quality</i>	2
SS Credit 7.1 & 7.2	<i>Heat Island Effect – vegetative roof must cover min. 50% of the roof surface to qualify</i>	2
2. Water Efficiency (WE)		
WE Credit 1.1	<i>Water efficiency landscaping reduced by 50%</i>	2
WE Credit 1.2	<i>Water efficiency landscaping, no potable use or irrigation</i>	4

Continued

FIRESTONE SKYSCAPE & LEED		
Credit	Category	Potential Points
3. Energy and Atmosphere (EA)		
EA Credit 1	<i>Optimize Energy Performance</i>	19
4. Material and Resourced (MR)		
MR Credit 2.2	<i>Construction Waste Management</i>	2
MR Credit 4.1 & 4.2	<i>Recycled Content</i>	2
MR Credit 5	<i>Regional Materials</i>	2
5. Innovation and Design Process		
	<i>Improved workplace environment, creation of educational laboratory. or creation of recreational space</i>	5

V. SkyScape Vegetative Roof System Installation

The following section outlines the procedures for installing Firestone SkyScape Vegetative Roof Systems. For complete technical information, including Technical Information Sheets, Detail Drawings, and warranty samples, please consult the Firestone Technical Database at www.firestonebpco.com.

A. IMPORTANT! WHEN TO INSTALL

1. SkyScape installations in most U.S. and Canadian climatic zones should only be scheduled between April 15th and October 15th. These dates can vary regionally, and some system types and planting methods can be more conducive to a cool-weather installation; please contact your Firestone Building Systems Advisor for guidance prior to installation.
2. Do not install a SkyScape Vegetative Roof System when the ambient daytime temperature is below 45 °F (7 °C) or above 95 °F (35 °C). Installing outside of this temperature range can cause catastrophic damage to plants; Firestone reserves the right to refuse to warranty any SkyScape Vegetative Roof System installed under these conditions. Some system types and planting methods can be more conducive to a cool-weather installation; please contact your Firestone Building Systems Advisor for guidance prior to installation.

B. Prior to Installation

1. Inspection
 - a) The roofing system must be inspected by a Firestone Field Technical Representative, and all punch list items noted during the inspection must be fully completed.
 - b) Never install a SkyScape system if any punch list items noted during the roofing system inspection are outstanding.
2. Leak Detection/Flood Tests
 - a) Leak detection systems are not required. When specified, leak detection systems must be installed during the roofing system installation. Install leak detection systems according to manufacturer instructions. Firestone is not liable for any damage caused by the installation or operation of a leak detection system.
 - b) Flood tests are not required. When specified, Firestone recommends that flood tests be executed under the supervision of a roof consultant or other roofing professional, to ensure that no damage to the roofing system results from the test. Firestone is not liable for any damage caused by a flood test.
3. Surface Preparation
 - a) Prior to installation remove all debris, dirt, or foreign material from the membrane surface.

4. Roofing System Protection

- a) All members of the installation crew should follow all the steps necessary to protect the roofing system during SkyScape installation:
 - (1) Use a protective temporary layer over all installation traffic areas of the roof. This layer may be a tarp, scrap roofing membrane, plywood or OSB. Move the protective layer to cover additional traffic areas as the installation progresses.
 - (2) Sharp-edged tools (shovels, spades, trowels, etc.) are not needed for SkyScape installations, and should not be brought to the roof.
 - (3) When installing SkyScape Extensive, Semi-Intensive, and Intensive Systems, rakes are necessary to evenly spread SkyScape Growing Media. Care should be taken to keep rake points from contacting roofing membrane and flashings.
 - (4) Shears are necessary for cutting SkyScape Module or Drainage Panel materials to fit around deck protrusions, design curves or angles, roof penetrations, drains, etc. Always cut SkyScape materials while away from roofing membrane and flashings, and never cut these materials when they are in contact with the roofing membrane or flashings.

C. Staging

1. SkyScape Pregrown Modules
 - a) Install all Pregrown Modules on the day they are delivered.
 - b) Modules that cannot be installed on the day of delivery must be unstacked from their pallets and laid individually in a cool, shaded, location. Lightly water all modules stored overnight.
2. Drainage Panels
 - a) Rolls should be staged in a safe location and secured from the wind.
 - b) Stack rolls no more than three (3) high to avoid them becoming misshapen.
3. Growing Media
 - a) All Growing Media should be installed upon delivery.
 - b) If overnight storage is required, media should be stored on an inorganic surface (parking lot, driveway, etc.) to avoid contamination. Tarp any loose media and weigh down tarp edges to protect it from the wind.
4. Plants
 - a) Install all plants on the day they are delivered.
 - b) Any plants that cannot be installed on the day of delivery must be unstacked from pallets and laid individually in a cool, shaded location. Lightly water all plants stored overnight.
5. Edging
 - a) Metal edging must be stacked flat and away from roof edges.
 - b) Boxes of edging should be stacked no higher than five (5) boxes high.
 - c) Edging stored overnight may need to be covered by a tarp that is held down at corners and edges, to help prevent displacement from the roof by wind.
6. Pavers:
 - a) Pavers and any paver accessories (grids, pedestals, shims, etc.) should be stored in their original containers.
 - b) SkyPavers weigh less than $\frac{1}{3}$ the weight of concrete pavers, and may be stacked in their original pallets. However, the containers should be spread out across the roof area to avoid the possibility of point-loading.
 - c) Concrete pavers can create high dead loads. Vary the placement of stored concrete pavers across the roof area to avoid overloading the structure and any possible roofing system damage.

VI. SKYSCAPE PREGROWN MODULE SYSTEM INSTALLATION

A. Root Barrier (When required; see note in Sec. II.A.2)

1. Install root barrier continually over finished membrane surface, including all vertical surfaces and projections.
2. Overlap and seal with Manufacturer's tape all side and end laps a minimum of 4" (102 mm) and allow for root barrier to reach up all verticals 1" (25 mm) above the intended soil line and secure.

B. Inspection Chambers

1. Install inspection chamber centered over drains, ensuring that the bottom inner edge of the chamber is outside of the outer edge of the drain flange.

C. Pregrown Modules

1. Install modules on roof surface, working top to bottom and left to right while locking modules together. Modules should be installed according to the layout provided by the designer in the project's construction drawings.
2. When SkyScape Pregrown Module System integrated irrigation is used, insert lateral lines of irrigation system into quick-fit couplers on outside edge of pre-plumbed modules as per vegetative system irrigation drawings in the project's construction documents.
3. Secure the modules to any inspection chamber using screw provided, and in accordance with inspection chamber installation instructions provided in the product container.

D. Irrigation Piping Grid

1. Install main lines, valves, valve boxes and controller wires in accordance with irrigation drawings.

E. Edging

1. Install edging along perimeter border between vegetation-free area and vegetated area.
2. Remove locking tabs of pre-grown module to be flush with module wall prior to securing edging.
3. Apply Manufacturer's tape to the outside of all modular walls abutting the vegetation-free zone along the perimeter.
4. Ensure lip of edging is over the top edge of the modular sidewall. Position edging firmly against sidewalls of pre-grown modules.

F. Water the installed system thoroughly, without soaking.

VII. SKYSCAPE EXTENSIVE, SEMI-INTENSIVE, AND INTENSIVE BUILT-IN- PLACE SYSTEMS INSTALLATION

A. Root Barrier (Where required, see note in Sec. II.A.2):

1. Install root barrier continually over finished membrane surface, including all vertical surfaces and projections.
2. Overlap and seal with Manufacturer's tape all side and end laps a minimum of 4" (102 mm) and allow for root barrier to reach up all verticals 1" (25 mm) above the intended soil line and secure.

B. Edge Flashing:

1. Install edging along perimeter border between vegetation-free area and vegetated area.
2. Ensure base flange is pointed towards the vegetated areas.
3. Make sure edging includes 2" (51 mm) adhesive strip along top of edge, below lip, to accept filter fabric.
4. Secure edge of filter fabric trim to edging surface.

C. Drainage Panels:

1. Lay retention/drainage board panels over insulation up to vertical edging.
2. Cut tightly around any projections, drains, etc.

D. Inspection Chambers:

1. Install inspection chamber centered over drains directly on the insulation board. Ensure the bottom inner edge of the chamber is outside of the outer edge of the drain flange.
2. Install vertical drains around outside of inspection chamber.
3. Install filter fabric over vertical drains and over lip of inspection chamber.
4. Cut slits in fabric to fit around locking pins and adhere to top inside edge with SkyScape Root Barrier Tape.

E. Irrigation Lines and Sprinkler Bodies

1. Lay lateral lines per zone as per irrigation drawings.
2. Install sprinkler bodies in locations as per irrigation drawings.
3. Install main lines, valves, valve boxes and controller wires in accordance with irrigation drawings.

F. Growing Media

1. Blower Truck
 - a) Growing media must be installed using a truck-mounted, integrated, pneumatic blower unit. To ensure accuracy, the unit should be powered by its own separate diesel power unit, not PTO driven, and equipped with at least one computer-controlled supplemental granular injection system.
 - b) The unit must be capable of uniformly applying materials and injected products at a rate greater than 15 yd³/h (11 m³/h) at least to a vertical limit of 150' (46 m) and must also be equipped with an application hose capable of extending 300' (91 m) from the blower truck.
2. Super Sacks
 - a) Crane sacks to approximately 4' – 5' (1.2 – 1.5 m) above roof surface. Cut sacks on the underside and allow media to deposit slowly onto drainage panels. For sacks with built-in nozzles, open nozzle end and allow media to deposit slowly onto drainage panels.

G. Vegetation

1. Prior to installing any vegetation, moisten the growing media thoroughly, without soaking.
2. Plant Plugs, Custom Plants, Native Plants
 - a) Dig a hole more than the size of the root ball after extracting it from the pot. Cover root ball, ensure plants are planted to their full root depth and gently tamp in place.
 - b) Custom plants, shrubs, forbs, grasses, herbs, trees, and other custom planting may have specific installation instructions, which will be provided for you by Firestone prior to delivery of the plants. Contact your Firestone Building Systems Advisor for further information.
 - c) Mulch may be applied 1" – 2" (25 – 51 mm) deep as a protective layer and to assist with moisture retention.
3. Sedum Cuttings:
 - a) Spread cuttings over growth media at the prescribed rate [5 – 10 lb/100ft² (2½ – 5 kg/10m² is typical). Water thoroughly, and continue a watering program for the first three months following installation. Installation of Sedum Cuttings before April 15 or after October 15 should not be attempted in any climatic zone.
4. Pre-grown sedum mats:
 - a) Lay pre-vegetated mats over the growing media, ensuring edges are firmly butted together.
 - b) Trim to fit neatly around projections and edges.
 - c) Dispose of excess mat, or reuse in other locations to fill in.
5. Water the installed system thoroughly, without soaking.

VIII. Firestone Walkway Pads

A. General

1. In addition to pavers, Firestone walkway pads may be used to provide protect to your Garden Roof.
2. Firestone EPDM QuickSeam™ Walkway Pads are a high-quality rubber with QuickSeam Tape factory-laminated to the bottom.
3. The Firestone UltraPly™ TPO Premium Walkway Pad is a non-reinforced walkway composed of thermoplastic material. The pad is produced into 30" x 50' (762 mm x 15.2 m) rolls. The pad has a textured surface and a smooth bottom surface for easy welding to UltraPly TPO roof membrane.
4. The Firestone X-Tred™ Walkway Pad is white and highly specialized to provide safe access for essential rooftop services while maintaining the integrity of the roof surface. X-Tred Walkway Pads are impact resistant in extremely cold climates. The top ribs have a 'diamond cut' surface to give permanent slip-resistance and a surer underfoot grip. The effective combination of an open grid format and 9/16" (14 mm) above-ground height enables self-draining and makes X-Tred very efficient wherever water puddles may occur. One pad measures 30" x 30' x .54" (762 mm x 9.1 m x 14 mm).

END OF SECTION