



ARMORDECK

Expansion Joint

PRODUCT SPECIFICATIONS



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ARMORDeck

EXPANSION JOINT



Why is Signature's patented Expansion Joint important?

All plastic products expand and contract with varying temperatures and differing sunlight conditions. In most situations, this is not noticeable. but in the case of stadium flooring it is a critical issue that must be considered and factored into every purchase or rental.

Changes in thermal conditions can cause bowing or waving of any plastic temporary flooring and it's important to have a mechanical expansion joint that can "eat up" the expansion. Depending on the temperature conditions, plastic panels can expand significantly, and when connected in an array, will be forced upwards to relieve the tension. In warmer climates, or in a climate where there is a wider temperature shift, the potential for expansion challenges is higher and the need for engineered expansion joints is significant. Any climate can cause potential issues if sunlight is sporadic or weather conditions change.

This expansion problem was the deep dark secret of the industry for many years and most manufacturers would like to avoid thinking about the problem at all. Not at Signature! We decided to address this problem head on and developed an innovative technological solution to this problem. Only Signature has an expansion joint for use in stadiums. That's because Signature's expansion joint technology is patented.

This system (available for EventDeck®, UltraDeck™ and ArmorDeck™) allows space for panels to expand and contract during the normal temperature cycle and provides for a mechanical solution to an age-long problem.

Like a bridge that is designed to expand and contract during varying climatic conditions, Signature products also allow for trouble-free use in any climate. Sections slide open and closed as needed to create the space for sections to expand into.

Expansion joints are installed during the installation in the open position and gradually close as surrounding floor modules expand. They return to the open position when temperature or thermal conditions drop.

Expansion joint sections are designed without large gaps or steps and eliminate the need for unsightly seams and gaps between sections the only solution to relieve stress in a floor, before Signature invented its patented expansion joint.

Signature is committed to being at the forefront of technology and is constantly improving and developing its system based on our customer's needs.

ARMORDECK™ EXPANSION JOINT PRODUCT SPECIFICATIONS

Module Size Closed 42" x 16-3/4" (1.067m x1.067m) usable surface area
 Opened (maximum) 42" x 21"

Thickness 2"

Weight 14 lbs.

Expansion Up to 4-1/4"

Colors Beige, Light Gray, Dark Gray. Custom colors available.

Edging Sloped transitional pieces with traction
 41-7/8"(L) x 12"(W) x 1-7/8"(at highest point)
 Weighs 12 lbs. Secure edging to modules with a cam lock.

Warranty 3 year manufacturer's limited warranty, including CAM locks

Ground Surface ArmorDeck™ is engineered for use over natural or synthetic turf, dirt, sand, gravel, asphalt, and other sensitive surfaces. It is ideal for ground protection and access.



CONNECTION SYSTEM:

Integrated self-aligning hook and loop connection system. Additional cam-lock system can be employed when added strength is required

Cam Locks Rotating proprietary plastic cam locks for added strength.

Connection Loops Four (4) built-in connector loops on each side and four (4) receiver pins on each side. Connection systemsigned to connect easily by allowing panels to nest into each other. Reinforcement ribbing behind connector loops incorporated into main panel design.

PANEL CONSTRUCTION:

Durable panel construction including high grade materials, engineered structural support and high quality manufacturing

Material High-Density Polyethylene (HDPE) reinforced with additives for added strength, flex modulus, and izod impact value.

UV Package A 5-year UV package is incorporated into the material formulation to prevent degradation and brittleness as a result of prolonged sun exposure.

Understructure Bi-directional ribbing system which includes four (4) full-height ribs in either direction and five (5) half-height ribs, thus providing strength while minimizing surface area contact. All ribbing incorporates radius edges to prevent sub-surface damage or cutting.

Liquid Containment Panels overlap upon connection to minimize liquid penetration. Overlap incorporates a specialized containment channel under each overlap area, designed to capture stray liquid that may seep from top surface.

Underside Module Optional underside module attaches to the underside of each panel, thus sealing the system and providing additional strength, rigidity and weight distribution to allow for more heavyweights

loading. ArmorDeck systems interconnect to each other to allow for multiple versions of ArmorDeck to be seamlessly connected as needed for varying applications.

Aeration Holes

Specially designed to allow light, aeration, and rain drainage. Incorporates proprietary ridge that surrounds each aeration hole, thus preventing casual spills from flowing through to the subsurface. Specialized aeration hole ridge also provides additional traction during wet conditions.

WEIGHT LOADING - FULL SIZE ARMORDECK:

Weight

Module w/o Bottom - 31 lbs 14.1 kg

Module w/ Bottom - 41 lbs / 18.6kg

Weight Capability

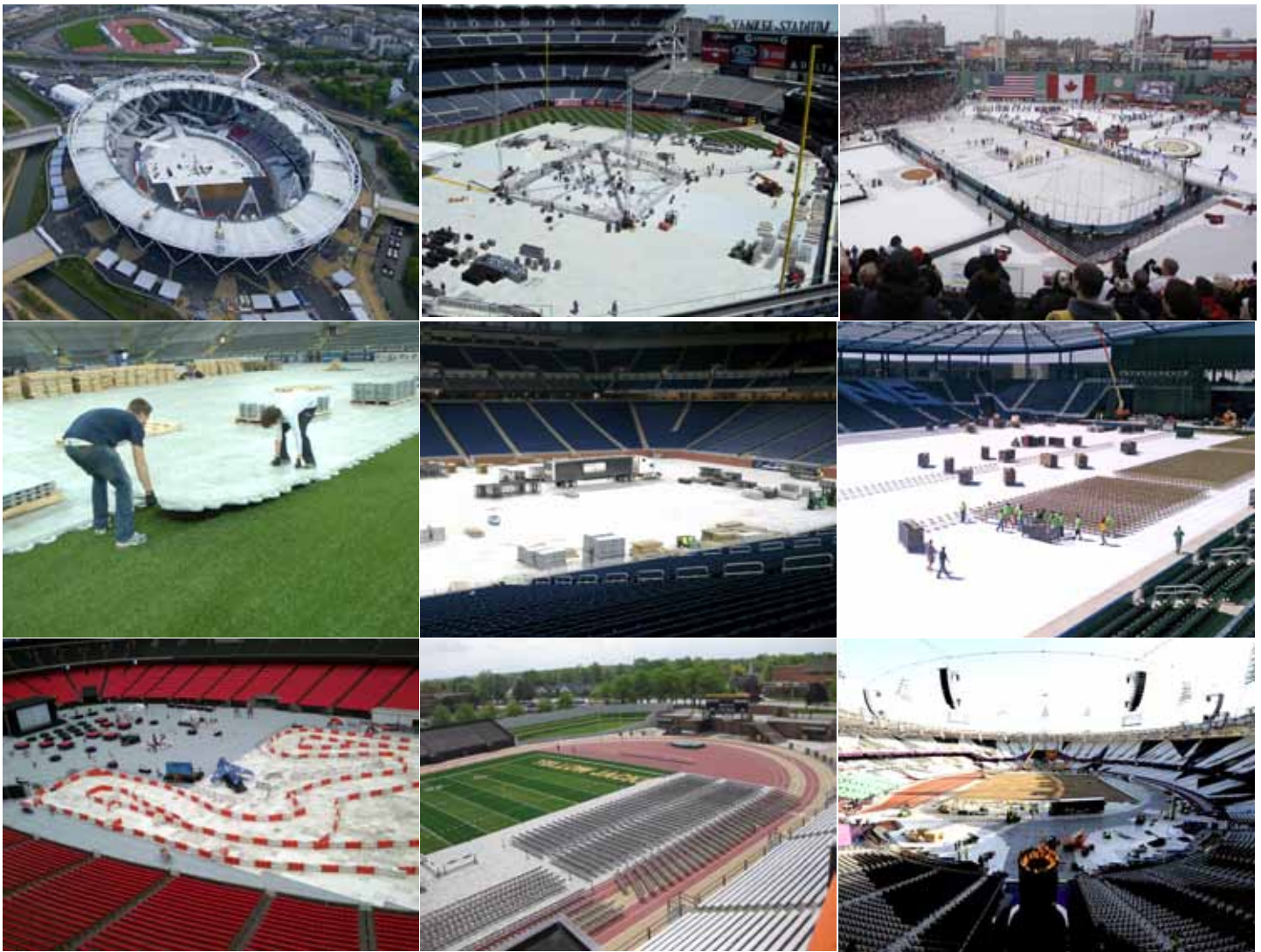
25,000 lbs / sq ft*

45,000 lbs / sq ft*

*static load on a solid and level subsurface

FIRE RATING:

UL94 HB



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