



# ARMORDECK

Expansion Joint

## PRODUCT SPECIFICATIONS



Signature Systems Group, LLC  
1201 Lakeside Parkway  
Flower Mound, TX 75028

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[www.stadiumflooring.com](http://www.stadiumflooring.com)

# 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.



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**

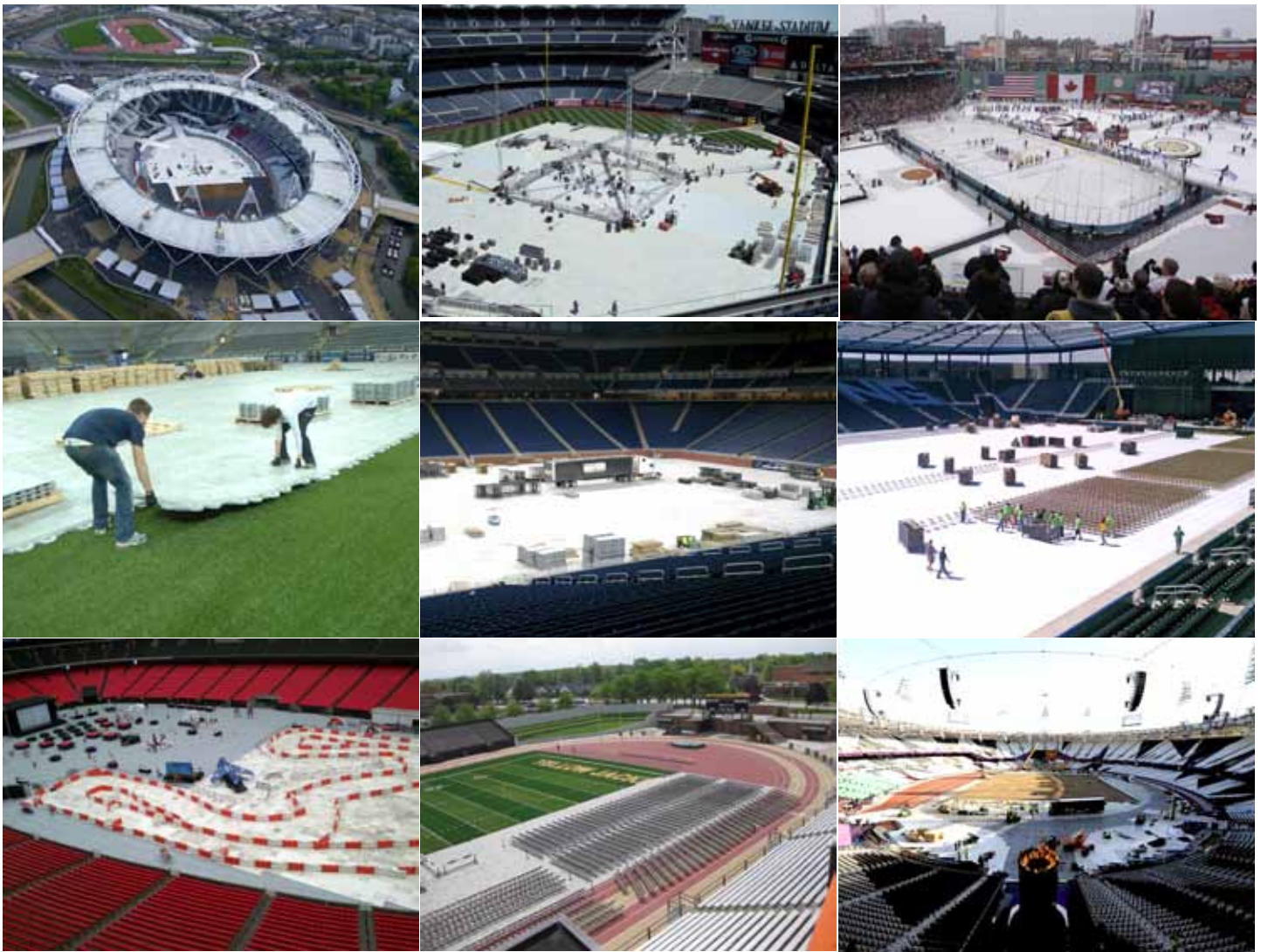
25,000 lbs / sq ft\*

45,000 lbs / sq ft\*

\*static load on a solid and level subsurface

**FIRE RATING:**

UL94 HB



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