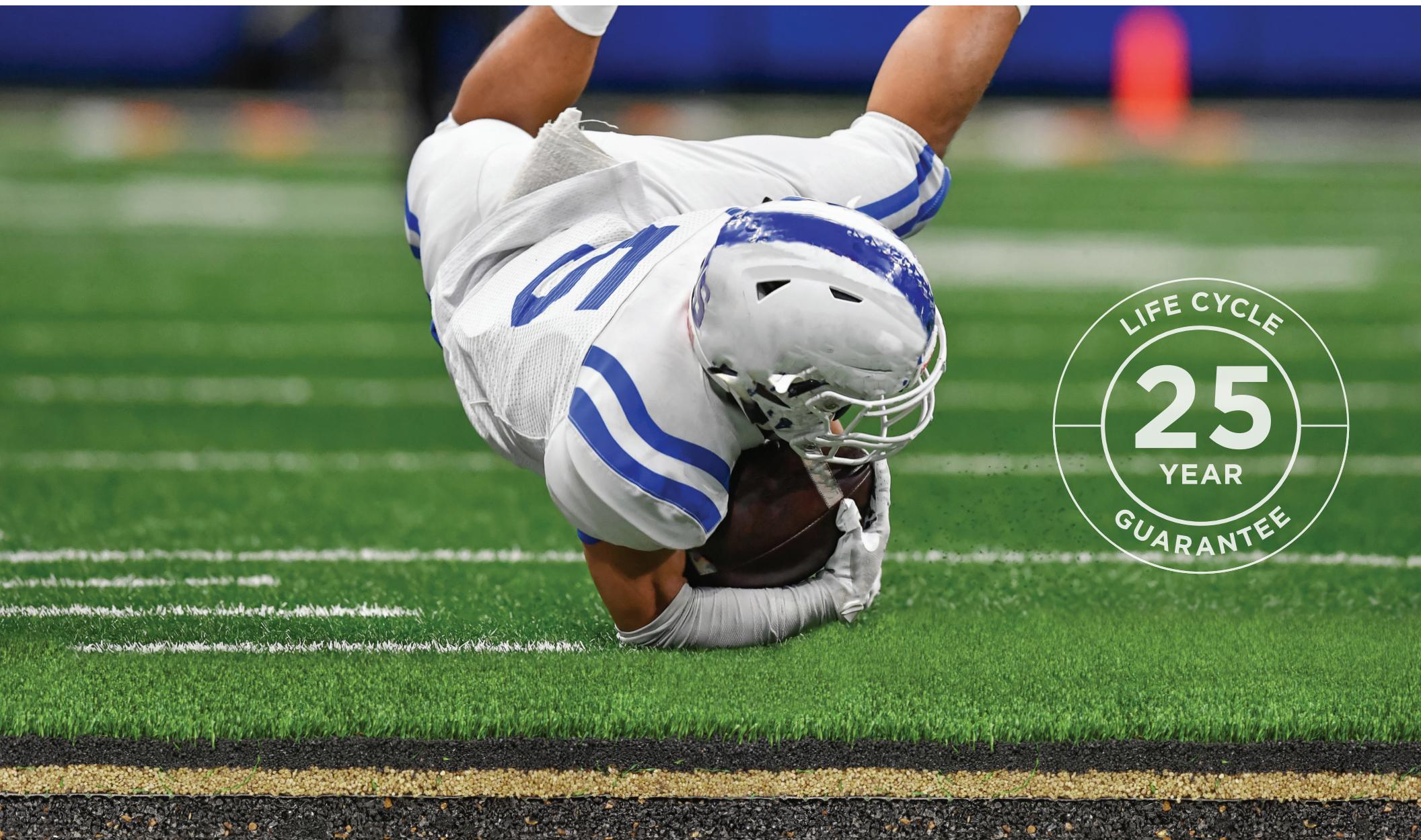


CUSHDRAIN®

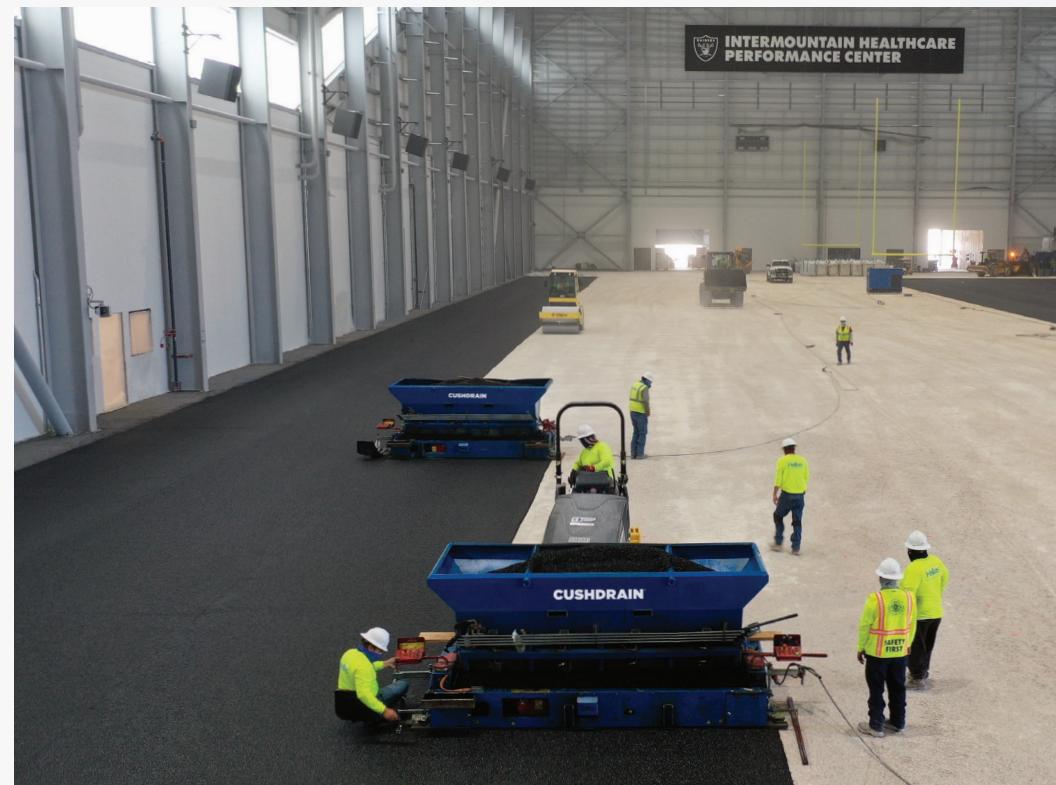
THE **BEST** INVESTMENT FOR THE **SAFETY** OF ATHLETES



WHAT IS CUSHDRAIN®?

CUSHDRAIN pad is an elastic layer paved into place over a laser-graded drainstone foundation for a synthetic turf system to improve a field's drainage and shock absorption (Gmax).

Cushdrain comes in 19mm or 25mm thicknesses and is made of SBR rubber granules, mineral aggregate and a high-grade moisture-cured polyurethane binder.





WHY CUSHDRAIN®?

- 1 Increases shock absorption upon impact providing a safer sports playing surface.
- 2 Prolongs the performance of the field by providing firm planarity through 3-4 turf lifecycles.
- 3 Provides cost efficiencies by eliminating the need to replace the elastic layer with each turf cycle.
- 4 Reduces downtime caused by heavy rains by improving field drainage.

PROMOTE THE SAFETY OF ATHLETES

A **CUSHDRAIN** shock pad helps protect athletes from injuries caused by hard impacts with a sports playing surface.



INTERNATIONAL GMAX STANDARDS

G FORCES

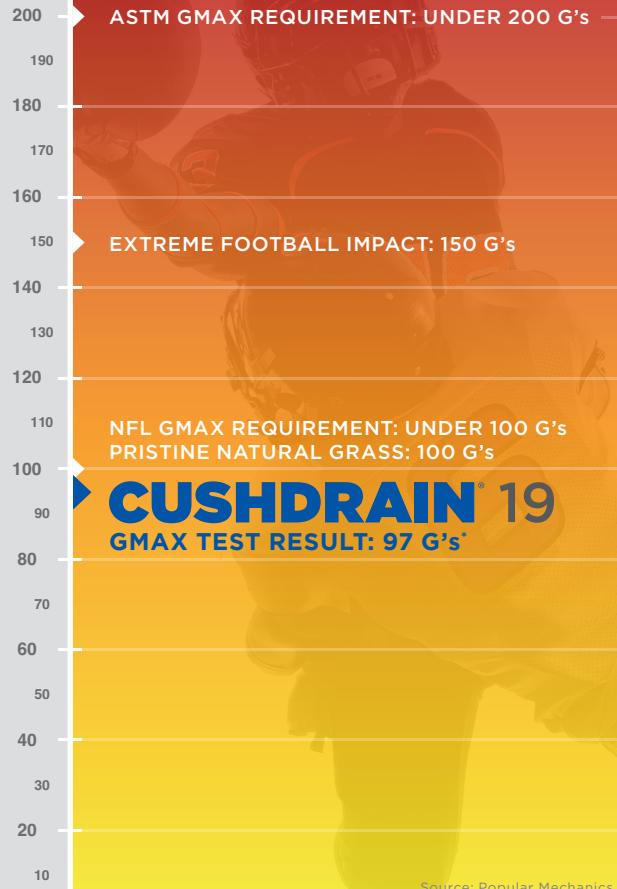
A linear force to the brain is measured in G's. One G is the acceleration due to the force of gravity.

THE LOWER THE GMAX, THE BETTER THE SURFACE.



AMERICAN
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MATERIALS

NFL



Source: Popular Mechanics

*Cushdrain results provided by Labosport, 2019

UNDERSTANDING SURFACE IMPACTS

Two field tests recognized in the athletic industry to determine impact resilience:

HIGHER CRITICAL FALL HEIGHT = BETTER

Head Injury Criterion (HIC) – is a model created to measure of the likelihood of head injury arising from an impact.

Critical Fall Height (CFH) – is the maximum height from which a dropped E-missile measures a HIC score of 1000. A higher CFH indicates a more shock absorbent surface.

LOWER GMAX = BETTER

Gmax – is the measure of the shock absorbency of a sports playing surface. The higher the G-max value signifies the poorer the shock-attenuation performance of the surface and the greater impact on an athlete.

SUPERIOR CUSHDRAIN RESULTS



CUSHDRAIN® 19

CFH
4.0 feet*
(1.21 m)

GMAX
97 G's*

Cushdrain® 25 results: CFH 4.3 feet (1.32m) | Gmax 89 G's*

PRISTINE NATURAL GRASS

CFH 5.6-7.2 feet (1.7-2.2m)
Gmax 100 G's

*Results provided by Labosport. 2019

CUSHDRAIN®

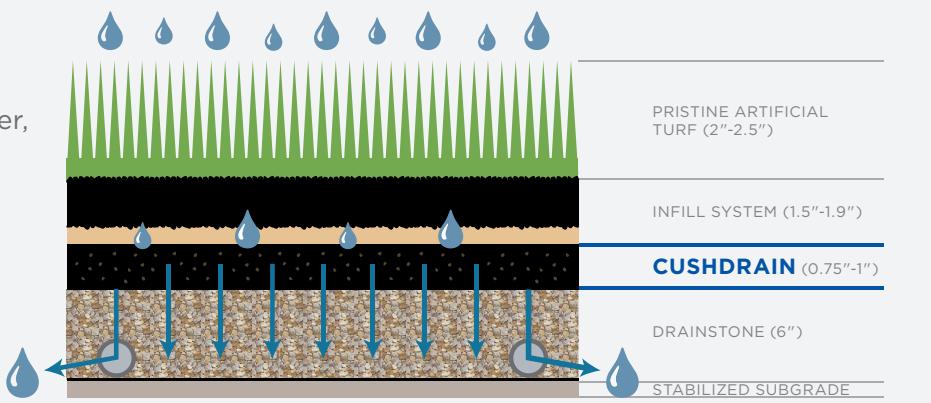
THE **BEST** INVESTMENT FOR THE **SAFETY** OF ATHLETES



INCREASED LONGEVITY

Cushdrain is precisely installed and bound together as a monolithic layer, holding its true form and position over 3-4 lifecycles of synthetic turf.

Cushdrain not only improves drainage of the field which minimizes downtime caused by heavy rains, but its materials make it resistant to rot, mildew, water freeze-thaw and compression set associated with normal athletic field use.



*Results provided by Labosport. 2019