

A dramatic, low-angle shot of an American football player in a red jersey and white helmet, running with the ball. He is being tackled by a player in a white jersey and blue pants. The scene is set on a grass field at night, with stadium lights and a large crowd in the background. The player with the ball is looking back over his shoulder.

REGUPOL

ABZORB

HIGH-PERFORMANCE
SHOCK PAD

PERFORMANCE AND SAFETY YOU CAN TRUST


REGUPOL Abzorb pre-fabricated synthetic turf shock pad is the perfect compliment to a well-constructed artificial turf product. Made from 92% post-consumer tire rubber, **Abzorb** is suitable for indoor and outdoor use under conventional non-infill synthetic turf systems and infill systems with rubber or sand and rubber.



Our proven high-performance shock pad is ideal for the following sports field turf:

- Baseball/Softball
- Field hockey
- Football / Rugby
- Golf
- Lacross
- Multi-sport fields
- Playground turf
- Soccer





High impact protection.

REGUPOL Abzorb shock pad is designed to safeguard against impact-related injuries. A well-designed synthetic turf system with our shock pad underlayment offers an extra layer of cushioning for high impact sports, creating a safer surface for all types and levels of play. Developing a shock pad that performs consistently in the lab and on the field is an important part of our work at **REGUPOL**. We pride ourselves on producing a shock pad underlayment that surpasses the industry minimums to deliver strong performance and player protection properties, including shock absorption, energy restitution, vertical deformation, critical fall height, and Gmax.

Increase the lifespan of your turf.

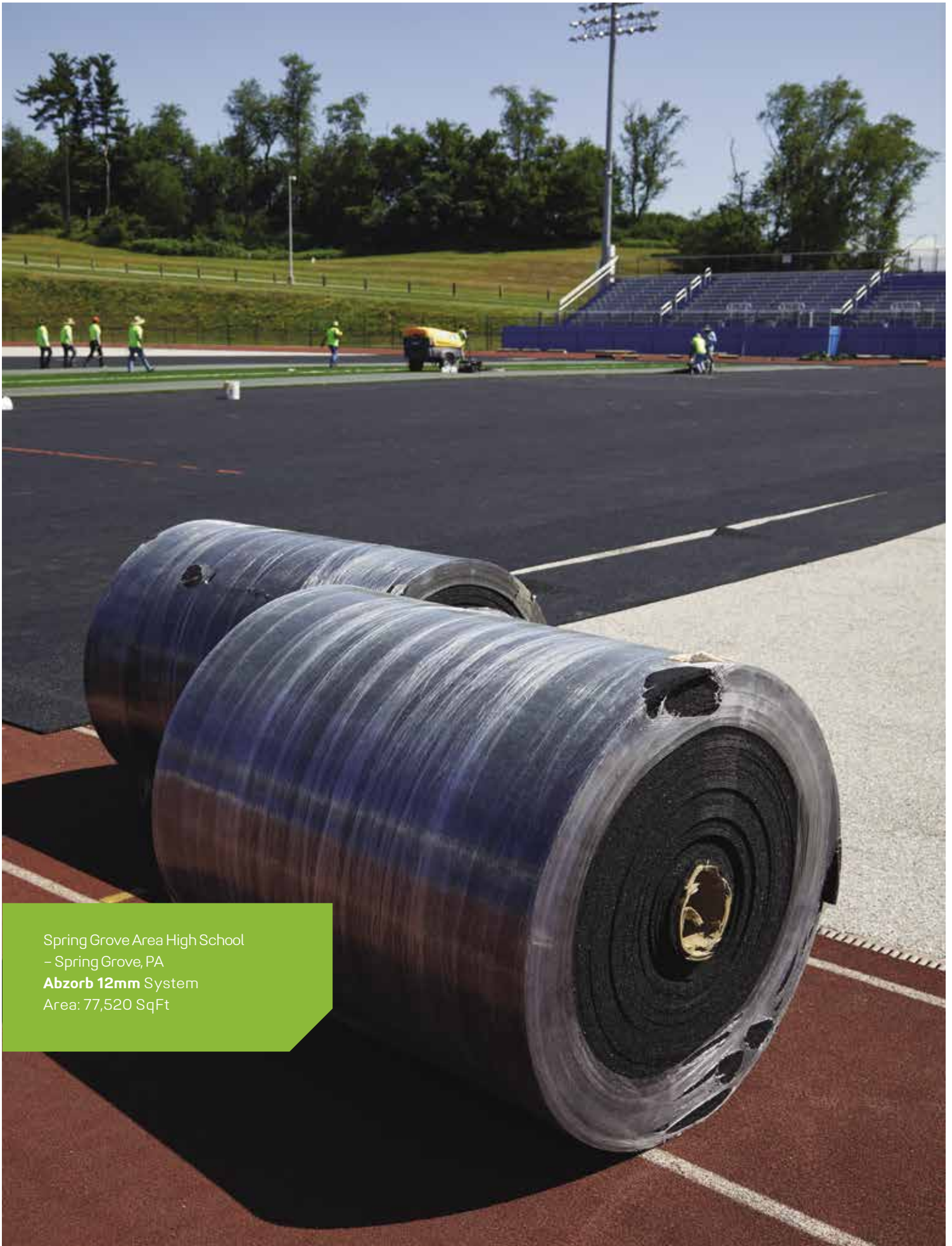
REGUPOL Abzorb provides both solid foundation and comfort underfoot, mimicking natural grass over the life of the surface—up to 16 years. Both installer and customer can rest easy knowing their **REGUPOL Abzorb** shock pad will endure and serve as an underlayment for a second or even third field.

Ready to meet your needs.

At **REGUPOL**, we have the product know-how to help you build the safest playing field possible. **Abzorb** can be formulated to your shock attenuation specifications for force reduction and other cushioning properties.

Drainage.

Pair any synthetic turf system with **REGUPOL Abzorb** shock pad for exceptional drainage efficiency. The porous composition of **Abzorb** allows water to pass through quickly so fields stay drier, safer, and cleaner.



Spring Grove Area High School
- Spring Grove, PA
Abzorb 12mm System
Area: 77,520 SqFt



RESPONSIBLY RECYCLING **END-OF-LIFE PRODUCTS**

At **REGUPOL**, we take unwanted, old tires and create meaningful brands that reshape how we live, work and play. As part of this effort, we provide convenient and responsible takeback options for **REGUPOL** products at their end-of-life, including **Abzorb** turf shock pad. We created **REGUPOL Recover** to divert this worn-out material from the landfill and instead, reclaim and recycle it into new **REGUPOL** products. Customers can be confident that **REGUPOL** branded end-of-life products will be managed responsibly.

REGUPOL Abzorb for a layer of protection today and preserve our environment for tomorrow.

REGUPOL 
RECOVER
end-of-life product recovery



EPHRATA WAR MEMORIAL FIELD

Quality that is long lasting.

Our manufacturer's warranty allows schools and owners to have the peace of mind that their investment is protected for years – without jeopardizing the athlete's safety that use the fields.

Area: 135,000 square feet

REGUPOL Shock Pad: 10mm system

- Average lifecycle of the **Abzorb** Shock Pad is up to 3 turf fields over top
- Fields with a shock pad make an artificial field behave and feel more like a natural surface
- The pad allows the GMax and vertical deformation of the surface to closely align with averages taken from natural grass surfaces—ensuring safety for the athlete.



PRODUCT SPECIFICATIONS

Standard Thickness	8mm, 10mm & 12mm — (custom thicknesses available upon request)
Weight per SqFt.	1.04 lb. (8mm), 1.3 lb. (10mm), 1.56 lb. (12mm)
Standard Width	48"

PRODUCT PERFORMANCE

	Testing Method	8MM	10MM	12MM
Vertical Permeability ¹	ASTM F1551	> 100 in/hr (Infiltration BS EN 12616)	> 100 in/hr (Infiltration BS EN 12616)	> 100 in/hr (Infiltration BS EN 12616)
Compression Strength ¹ Rebound Compaction %	Rebound at 25% strain at 50% strain at 75% strain	92.47% 89.50% 90.63%	90.83% 90.27% 89.36%	91.44% 88.21% 92.50%
Critical Fall Height ²	ASTM F3146-18	1.08m	1.10m	1.23m 1.40m (23MM)
Density ¹	ASTM D3676	34 lb./cu.ft.	34 lb./cu.ft.	34 lb./cu.ft.
Lateral Transmissivity (0.5% slope) ¹	ASTM D4716	0.65 gal/hr/ft	0.65 gal/hr/ft	0.69 gal/hr/ft
F355A "Flat" Gmax ²	ASTM F355A	< 112	< 110	< 104
F355A "Flat" HIC ²	ASTM F355A	315	309	286
Force Reduction ²	AAA	65%	65%	66%
Vertical Deformation ²	AAA	9.3mm	9.6mm	9.6mm
Energy Restitution ²	AAA	38%	36%	40%
Rotational Resistance ²	EN15301	37N	39N	37N
Ball Rebound ²	EN 12235	0.85m	0.81m	0.92m
Tensile Strength ¹	ASTM D412	> 50 psi	> 50 psi	> 50 psi
Tensile Elongation at Break ¹	ASTM D412	> 55%	> 55%	> 55%
Compression Set B ¹	ASTM D395	< 18%	< 18%	< 18%
Coefficient of Friction (Movement of artificial turf over 50mm) ²	ASTM D2047	1.0 G	1.0 G	1.0 G
Microbiological Analysis ¹	ASTM G21-96	No growth 1-14 days	No growth 1-14 days	No growth 1-14 days
Temperature Resistance ¹		- 40°C to 115° C	- 40°C to 115° C	- 40°C to 115° C

¹ testing of pad only ² testing of system (2" turf, 70% sand/30% rubber (at depth of 40mm) with REGUPOL Abzorb (8, 10, 12mm) shock pad thicknesses)



GMAX²
84 – 112

FORCE REDUCTION²
65%

CRITICAL FALL HEIGHT²
8MM=1.08M • 10MM=1.10M
12MM=1.23M • 23MM=1.40M

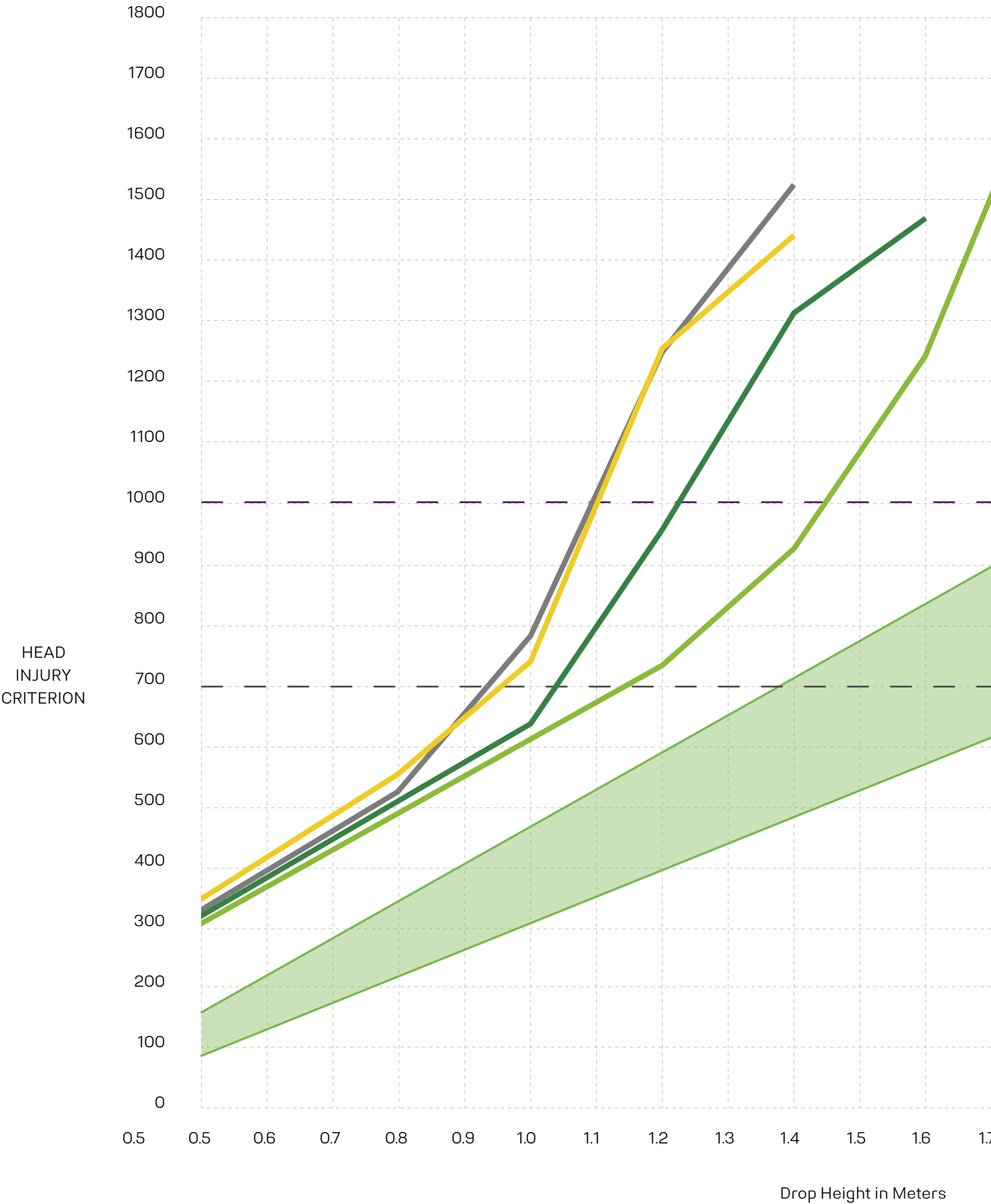
VERTICAL
PERMEABILITY¹
>100 IN/HR



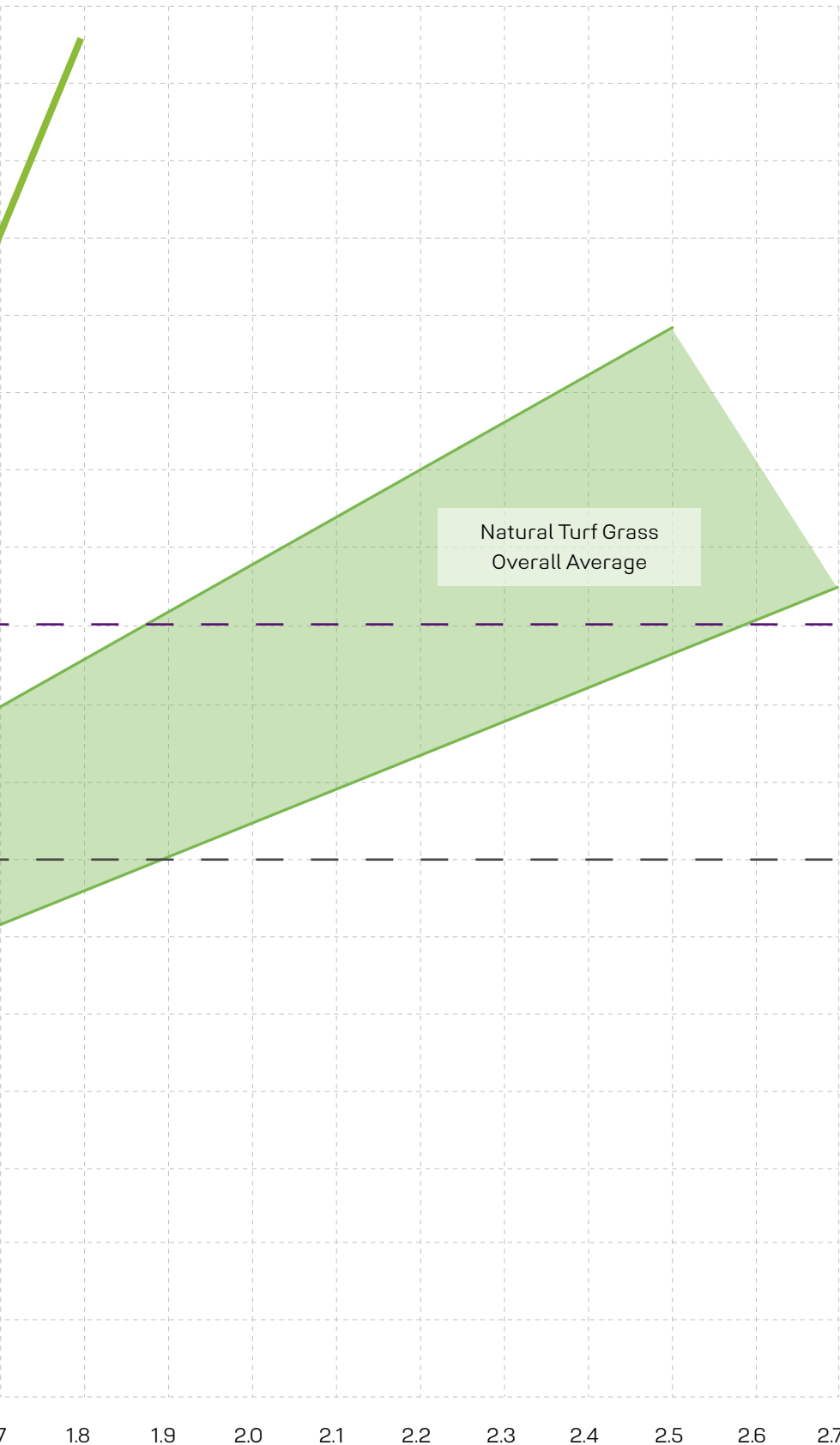
Along with the high shock absorption, GMAX & critical fall height values of **REGUPOL Abzorrb** Shock Pad, it allows for superior water infiltration that is essential to the design of synthetic fields.

¹ testing of pad only; ² testing of system

ASTM F3146-18 STANDARD TESTING METHOD FOR IMPACT ATTENUATION
REGUPOL ABZORB SHOCK PAD



COMPARISON OF TURF PLAYING SYSTEMS DESIGNATED FOR RUGBY



2\" Turf- 65/35
Sand/Rubber over
REGUPOL Abzorb 8mm

2\" Turf- 65/35
Sand/Rubber over
REGUPOL Abzorb 10mm

2\" Turf- 65/35
Sand/Rubber over
REGUPOL Abzorb 12mm

2\" Turf- 65/35
Sand/Rubber over
REGUPOL Abzorb 23mm

HIC 1000 (16% Risk
severe head injury)

HIC 700 (5% Risk
severe head injury)



16 YEAR WARRANTY

With the confidence of a 16-year standard warranty and robust product longevity, REGUPOL Abzorb offers incredible value and savings for customers.

Customer satisfaction is our first and most important job. More than giving you added peace of mind, our 16-year product warranty supports our commitment to manufacture high quality, dependable, and reliable shock padding. We stand by you by standing by our products.



Easy to Install.

Installation of **Abzorb** turf shock pad underlayment is quick and easy, saving you time and money. **Abzorb** shock padding arrives at the job site on large rolls already cut to your field's specifications. Installation involves a few repetitive steps, unrolling and placing material over the prepped unbound or bound subbase.

Go green.

Caring about the environment is a part of the **REGUPOL** core mission. Made of 92% post-consumer tire rubber, **Abzorb** meets stringent environmental standards and can assist with earning LEED credits. And, when a **REGUPOL Abzorb** shock pad is no longer needed for its original application, the material can always be reclaimed, recycled, and reused in new ways through our **REGUPOL Recover** program.



HOW ARE SOLUTIONS EASY AND INSPIRING? **TOGETHER**

We've got it covered.

REGUPOL is more than sports and multi-purpose surfaces. More than our acoustic underlayments. And more than our state-of-the-art track and field surfaces. For over 65 years, providing solutions and delivering exceptional customer service has been our business. We understand that paying attention to the details is critical from the start of any project. Making changes later means inconvenience and additional expenses. We sweat those details so you don't have to.

Because we invented the technology to recycle tires into unique products, you benefit from decades of experience and expertise that only we can offer. That means the right information, advice, and answers when you need them, along with products that have been refined, tested, and retested over the years by our R&D team to deliver precision performance that will not disappoint. It is all accomplished with manufacturing that meets the highest quality standards with the strictest environmental requirements.

Delivering results, developing leaders worldwide

We have grown steadily since 1954 – new products developed, new subsidiaries established and new locations added. Today, **REGUPOL** is still a family enterprise, with third and fourth generations currently working in company management. We have eleven offices in seven countries, all serving as epicenters for innovation, ingenuity, and community.

Behind every **REGUPOL** product, there is a talented team that works together, across the globe, to create performance solutions from reclaimed materials that deliver durability and protection where you need it most without sacrificing sustainability. Whether used to protect surfaces and optimize load transport or to dampen sound and vibration, **REGUPOL** gets it done. We deliver with a level of product, customer service, and investment that only the inventor can offer.

No matter the customer—we aim to make their experience easy and inspiring, at an only-at-**REGUPOL** value.

Customer service excellence for over 65 years.



Ask our experts about the optimal
Solution for your project:
sales@regupol.com | +1 800 537 8737

 **REGUPOL**

Raw material procurement

Recycling

Product design

Production

Distribution

Use

HOW TO ACT MORE SUSTAINABLE? TOGETHER

Caring about the environment is part of the REGUPOL core mission. When it comes to how we conduct our business and develop our products, we think long term. We ask ourselves: How will our actions today impact tomorrow's world? We strive to protect and sustain our environment every step of the way, from development and production to customer use and disposal.

On the road, tires eventually wear down or sustain irreparable damage. But, in the environment, tires can last forever. They are nonbiodegradable, unable to be compacted like plastic or metal, and maintain their shape. Because of their sheer size and impenetrable rubber compound, tires are among the most problematic sources of waste we face today.

Each year we reclaim over 9 million tires (or 90,000 tons of SBR) from landfills to make environmentally sound solutions for the sports, acoustics, commercial, construction, and transportation markets. Our products are comprised of either shredded and cleaned SBR tire rubber (100% post-consumer waste) or a combination of SBR tire rubber and vibrant EPDM (post-industrial waste) color granules. The recycled content ranges from 75% to 100% recycled materials.

We understand that sustainability is not only about material content, which is why our manufacturing facility is near our rubber supplier. By eliminating excessive fuel use created through transportation of resources, fossil fuel expenditures are minimized, and atmospheric damage reduced. We are practically a zero-waste manufacturer regrinding our scrap material for use in some of our products.

There is an increasing demand for honesty and transparency from manufacturers. We were the first Pennsylvania manufacturer to be GreenCircle Certified. They provide independent verification of our products annually to ensure the legitimacy of our recycled content claims. But our commitment to sustainability does not end there; we've gone one step further. We work with UL Environment to independently certify our Environmental Product Declaration (EPD) to better understand and communicate the sustainable qualities and the life-cycle impact of our products.

Products used in the built environment should meet specific criteria for the health and safety of all occupants. These are called Health Product Declarations (HPDs) and are the standardized way of reporting the contents of building products. It is a valuable tool for not only encouraging transparency, it creates a sense of brand trust and is safer for anyone using the property. We make HPDs readily available for our family of brands including Aktiv, Sonus, and Revolution.

We are active USGBC members and our products can potentially assist architects and designers in earning points under 2 out of 9 categories—Materials and Resources and Indoor Environmental Quality—of LEED certification v4.1.





700

Employees

11

Locations worldwide

90,000

Tons of high quality rubber per year

132

Countries served worldwide



HOW DO YOU GROW TO THE TOP? **TOGETHER**

When you partner with REGUPOL, you become part of a community with a shared goal of leading with excellence and innovation. Our path to success has always been rooted in product innovation and great service, with an eye on the future. We transform over 90,000 tons of high-quality rubber every year to create products that meet and exceed industry standards.

Over the course of our 65-year journey to become a leader in our category of building materials, we have built up a wealth of expertise and forged long-term customer partnerships in 132 countries worldwide—like sprint legend Usain Bolt, who made history on our blue **REGUPOL** running track in Berlin's Olympic Stadium in 2009 when he set two world records.

"There's nothing like running on REGUPOL. To me, REGUPOL equals gold. In more ways than one." – Usain Bolt

We've got it covered.



REGUPOL America LLC

11 Ritter Way
Lebanon, PA 17042
phone +1 800 537 8737
info@**REGUPOL**.com

REGUPOL BSW GmbH

REGUPOL Australia Pty. Ltd.

REGUPOL Acoustics Middle East FZE

REGUPOL Schweiz AG

REGUPOL Zebra Athletics LLC

BSW Shanghai CO. LTD.

REGUPOL.us

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