

# SLYTECH 2ND SKIN™ XT

## PROBLEM STATEMENT: SAFETY vs. COMFORT

Standard body protectors either sacrifice comfort for protection, with protectors that are stiff, uncomfortable and affect performance, or sacrifice protection for comfort, with obvious consequences in a crash.

## TRADITIONAL COMPANIES

VISCOELASTIC PU,  
NBR FOAMS



POLYOLEFIN  
FOAMS



## SOLUTION: SLYTECH 2ND SKIN™ XT

Our proprietary SLYTECH 2ND SKIN™ XT foam proved to be the **most effective shock absorber** available in body protection thanks to its **special microstructure** in lab tests compared with competitors. When worn and warmed by your body heat it becomes soft and flexible providing unparalleled comfort. SLYTECH 2ND SKIN™ XT means **safety and comfort without compromises**.



SLYTECH 2ND SKIN™ XT material micrograph.

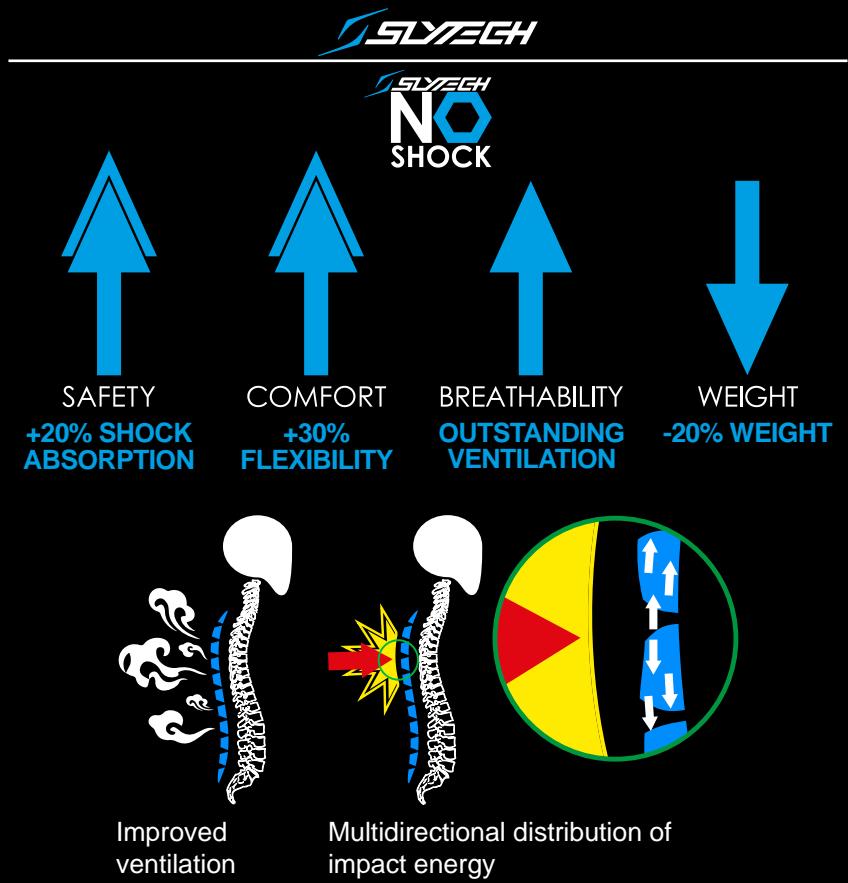
# SLYTECH NOSHOCK™

## PROBLEM STATEMENT: MATERIAL TECHNOLOGY LIMITATIONS

Material technology has limitations when it comes to impact protection. Linear acceleration forces are usually absorbed in the direction of the impact, but efficiency is limited because the material does not have the capability to spread the impact energy over a large volume. In addition to this, materials in general also has limits in regards to flexibility, weight and does not allow for efficient ventilation.

## SOLUTION: SLYTECH NOSHOCK™

With our proprietary SLYTECH 2ND SKiN™ XT foam material molded with our SLYTECH NOSHOCK™ proprietary **honeycomb cone design**, that encourages a **multi-directional distribution of impact energy**, we have been able to **improve safety and comfort even further** with up to 20% increase in linear acceleration absorption, 20% in weight reduction and 30% improvement in flexibility. The structure itself also optimizes airflow ventilation.



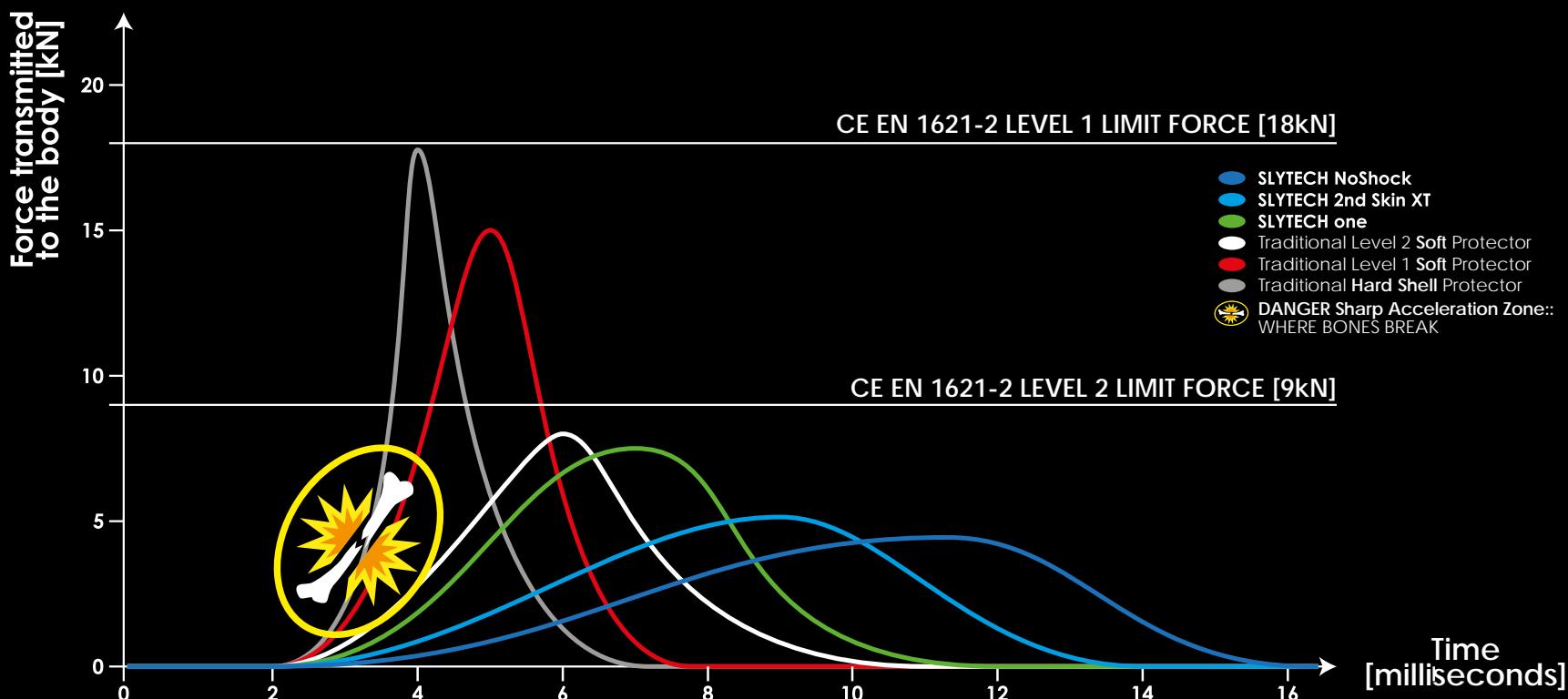
# SLYTECHone

## PROBLEM STATEMENT: SAFETY vs. COMFORT

Protection at the highest level may not be accessible to all the riders on the slopes.

## SOLUTION: SLYTECH one

As a direct derivative of our proprietary SLYTECH 2ND SKIN™ XT material, SLYTECH one foam is a **cost effective solution** that provides the **best protection versus comfort tradeoff** in the market.



# MULTI IMPACT

## PROBLEM STATEMENT: MATERIAL TECHNOLOGY LIMITATIONS

Traditional protectors lose impact energy absorption efficiency dramatically after the first impact.

## SOLUTION: MULTI IMPACT

Our entire line of body protectors are **engineered to return to their original shape** and structure after every impact enabling them to effectively **absorb new blows** whether they are in **quick succession** in a slam or over the **lifetime** of the product.



# PROGRESSIVE IMPACT INTELLIGENCE

## PROBLEM STATEMENT: SAFETY vs. COMFORT

The majority of traditional protection materials do not adapt to different forces and speeds of impacts. They are usually too hard for lower energy impacts or too soft for high energy impacts. However, those that do adapt, expose the body to some injury risk because of their sudden transition from low energy to high energy.

## SOLUTION: PROGRESSIVE IMPACT INTELLIGENCE

Upon impact, the polygonal-cell structure of our proprietary foam material performs as a **progressive shock absorber** that **intelligently adapts to the different forces, impacts and speeds** of crash providing your body complete protection at **any impact level or intensity**.



# SHIELD & SHIELD CARBON

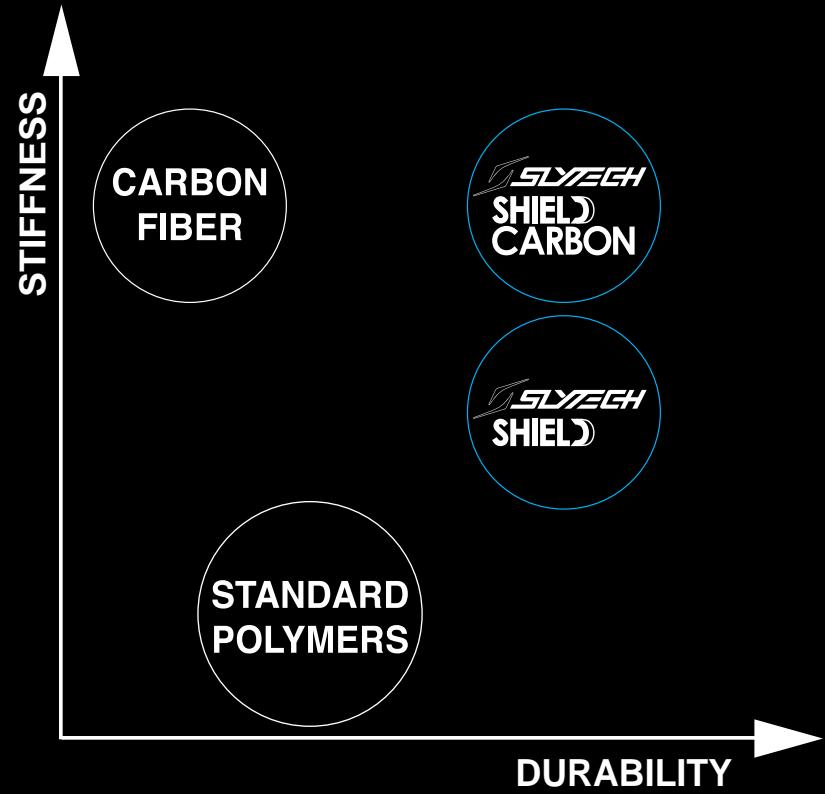
## PROBLEM STATEMENT: STIFFNESS vs. DURABILITY

Protectors made of traditional materials offer either high performance but are very brittle or are durable, but have poor performance. Some even perform poorly, and aren't durable at the same time.

## SOLUTION: SHIELD & SHIELD CARBON

SLYTECH SHIELD CARBON pushes Slytech SHIELD to a new level by combining the advanced technopolymers of Slytech SHIELD with carbon fiber technology to make extraordinarily durable yet lightweight and stiff shells.

SLYTECH SHIELD simultaneously offers the best performance and durability, no compromises. Our advanced technopolymer makes the shell stiff and durable, even at very low or very warm temperatures.



# NOFRICTION

## PROBLEM STATEMENT: FRICTION

If the shell is not stiff enough gate contact causes the protector to bend and expose a bigger surface area to the gate. This results in a large increase in friction and loss of energy and speed at every point of contact.

## SOLUTION: NOFRICTION

SLYTECH SHIELD CARBON features NOFRICTION PTFE technology that drastically reduces friction and drag between the gate and the guard. The technopolymer has embedded TeflonR (PTFE) in the blend that decreases the friction coefficient during impact with the gate, which results in higher speed.

SLYTECH SHIELD features NOFRICTION technology additives that minimize friction between the shell and the gate to minimize speed loss.



SLYTECH MULTI DN technology with 3 or 4 ribs is designed to boost gate-clearing speed by increasing the stiffness of the guard, minimizing energy absorption on impact, and by reducing the drag of the gate on the guard by limiting the contact surface area.

**STIFFNESS = SPEED**  
**MULTI DN = SPEED**  
**NOFRICTION = SPEED**

# TECHNOLOGY OVERVIEW

## FUNCTIONALITY

### FIT/COMFORT.

Design.

Fabrics/materials.

## PERFORMANCE

### STIFFNESS/GLIDING.

Materials.

Engineering.

Design.



READY-ON STRAPS provide an effective tighten/release system that allows for fast on-off and race-ready fitting.



The shell's anatomic shape gives the comfortable and perfect shinguard and forearmguard fit.



SLYGRIP FOAM is made with ARIAPRENE™, a non-toxic, easily decomposable and readily recyclable alternative to synthetic rubber, and offers optimal comfort and superior grip onto the arms and legs even at extremely low temperatures.



SLYTECH SHIELD CARBON combines carbon fiber technology with the high performance of our SLYTECH SHIELD material making it possible to obtain extraordinarily durable yet lightweight and stiff shells, both at low and warm temperatures.



SLYTECH SHIELD is SLYTECH engineered material made with the most advanced technopolymers making it extremely stable and durable, both at low and warm temperatures.

**NOFRICTION PTFE** SLYTECH SHIELD CARBON features NOFRICTION PTFE technology that drastically reduces friction and drag between the gate and the guard. The technopolymer has embedded TeflonR (PTFE) in the blend that lubricates the impact with the gate and boosts speed.

**NOFRICTION** SLYTECH SHIELD features NOFRICTION technology additives that minimize friction between the shell and the gate and help the racer limit speed loss.



SLYTECH MULTI DN technology with 3 or 4 ribs is designed to boost gate-clearing speed by increasing the stiffness of the guard, minimizing energy absorption on impact, and by reducing the drag of the gate on the guard by limiting the contact surface area.



The Designed to offer earlier impact with the gate and to re-direct the gate away from the tip of the skis.

