



FORCEFIELD
BODY ARMOUR

Forcefield Information sheet-

WHAT MAKES FORCEFIELD BODY ARMOUR® DIFFERENT?

Forcefield has led the way in introducing the concept that body armour doesn't have to be hard, rigid and uncomfortable to wear. We are market leaders in soft armour technology. We design our body armour so that it is flexible, moulds to the users' body, stays in place and so comfortable that you forget you are wearing body armour. As importantly we have proven that the performance is superior to the more mainstream hard plastic protectors.

Forcefield doesn't design products based on price. It designs to performance and comfort first.

HOW RELEVANT/IMPORTANT ARE THE CE STANDARDS?

All Forcefield Body Armour® is CE approved which is essential to maintain a credible product that has proven performance. The CE testing standards for limb and back take into account protection, comfort and ergonomic requirements. Armour that conforms to the standard is proven to reduce the incidence and severity of injuries. With authentic CE approved limb or back protectors the end user at least knows that extensive research and testing has gone into the development of the product and that it has been accredited by an authorised body. It has a value! It's not just the manufacturer making claims that cannot be substantiated.



WHAT IS NITREX®?

Nitrex® is the family name for the PVC Nitrile materials used within Forcefield Body Armour®. Almost without exception every Forcefield Body Armour® product is made using a triangular grid material that we call Moulded Nitrex®.

This is made of interconnecting walls where the width of the wall at the base is always wider than at the top. This is triangular in shape and these walls all interconnect which means that the material is structurally solid and sound.

It isn't just down to the design. It's as much down to the Nitrex formula which is a shock absorption material with outstanding performance characteristics. Its light, its elastic, it has a slow recovery and is robust.

Poor materials when impacted will compress too much allowing too much energy to pass through; it's what we call "bottoming out". It bottoms out without doing its job and is effectively useless!

You could say a very hard material when impacted won't compress so this would be good! But this isn't the case either as they will transmit energy directly through and not absorb any energy at all. So you get materials that are too soft and too hard.

The ideal material is one that on impact compresses to a degree but then slowly returns to its original shape and size. This means that you are maximising the length of time so that as much energy can be absorbed.

So on impact what you are trying to do is delay as long as possible the moment of peak transmitted force. This force is what does the damage to the body. So the better the material the longer this moment is delayed. The time is measured in milliseconds. Nitrex® slows the moment of peak transmitted force and spreads the damaging forces over the whole surface which means that the material is used to its maximum.

Forcefield Press release

Forcefield Pro Sub 4 (CE Level 2)



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A very special product. The most protective in the world!

The Pro Sub4 is the highest performing back protector available.

The Official CE tests show a true CE reading of 3.38kN, making this unique in the marketplace.

A back protector with all day comfort, repeat performance and impact protection that is truly market leading. **A world First.**

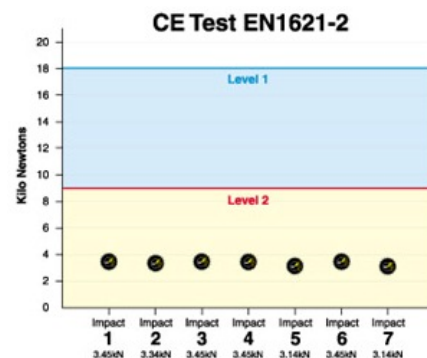
Over the 7 impacts incurred during the CE test, not one impact was above the 4kN mark. Showing safety and consistency across the entire product.

4kn is considered by medical experts to be the maximum amount of transmitted energy that should be subjected to a human to prevent severe back and rib trauma.

The Pro Sub 4 is an engineering and protection first. Fitting close to the body, and custom moulding to the individual body shape, it has the ability to withstand multi-impacts, and also comes with a removable & washable outer cover; this gives the user the ability to keep the product clean and hygienic. It also makes the protector more flexible as it is not bonded at the edges. More flexibility means more comfort, a critical part of the design brief when designing a product.

Manufactured with 1000's of holes ensure a breathable and lightweight product.

- CE Level 2 Protection – Highest Possible
- Approved to EN1621-2 Level 2
- Sizes Available: S – M – L – XL
- Award winning



Qualities of all Forcefield Products-

Multi Density

By using a combination of specialised high-tech energy absorbing materials, we can provide protectors that are less bulky than our competitors whilst offering unrivalled protection.

Nitrex

This patented technology allows protection evenly across its surface. Most hard shell/plastic protectors will perform differently across its surface. You never know where the impact will strike!

Repeat Performance Technology

The materials we use offer repeat performance technology. Hard shell protectors can only take one impact and should be discarded immediately after a fall.

Flexibility

A combination of Nitrex technology and Multi layers has enabled Forcefield to offer more lightweight and flexible protectors. This allows the armour to flex with the body and not be restricted by it.

Breathability

The unique triangular Nitrex outer grid has been designed to allow vent holes at the base which allows breathability but also reduces weight.

