IMPACT MITIGATING
SEAT CUSHION INSERTS

REDUCED VIBRATION
IMPACT MITIGATION
IMPROVED COMFORT
**PRODUCT OVERVIEW**

The SKYDEX Marine Seat Cushion Insert is designed to improve impact protection and durability by being integrated directly into the body. Therefore, the IT bones carry the load of the upper body and are the conduit for impact and vibration energy into the seated anatomy. When seated, the IT bones carry under the weight bearing area of a seated occupant. The purpose of the SKYDEX Insert is to improve impact protection and durability. Insert assemblies are sold as 46" x 18" (117cm x 46cm) sheets of material.

**SKYDEX SEAT CUSHION INSERT INTEGRATION GUIDE**

Sheets are designed with integrated drainage holes. The single, double and triple layer inserts are not the same. Do not combine the three from different polymers: 

- **Single-Layer**
- **Double-Layer**
- **Triple-Layer**

The SKYDEX Inserts are available in three different performance levels which are made from different polymers:

- **SINGLE LAYER** - SKYDEX 25mm Seat Inserts
  Offer significant improvements over ‘foam only’ including increased memory, comfort and long life

- **DOUBLE LAYER** - SKYDEX 50mm Seat Inserts
  Deliver all round comfort with the 2 tuned layers giving increased performance

- **TRIPLE LAYER** - SKYDEX 75mm Seat Inserts
  Utilize 3 tuned layers to give optimum performance and comfort

**Repetitive Shock and Whole Body Vibration**

RS & WBV can affect the occupants of marine craft in waves. Standing on SKYDEX Impact Mitigating Boat Decking can reduce fatigue and increase comfort.

**SKYDEX Seat Cushion Inserts** improve the shock mitigation capabilities of a standard seat cushion across a wide range of conditions.
SKYDEX Seat Cushion Insert

**COMFORTABLE**
SKYDEX seat inserts make superior cushions

**DURABLE**
Tough material does not absorb water

**LONG LASTING**
Designed to give consistent performance for years

**VERSATILE**
Can be used in new boat seats or retrofit projects

**COMPATIBLE**
No change to seat appearance, size or weight

The objective of SKYDEX Impact Mitigating Seat Cushion Inserts is to improve protection under the weight bearing area of a seated occupant.

When seated, the IT bones carry the load of the upper body and are the conduit for impact and vibration energy into the body.

SKYDEX Seat Inserts can be integrated into cushions ranging from ‘jockey-style’ seating on RIBs and open boats to ‘truck-style’ seating in cabins and wheelhouses.

SKYDEX Seat Inserts can be used in bench seating to improve comfort for a wide size and weight range of occupants.
A unique range of seating solutions - filling the gap between ‘foam only’ cushions and mechanical suspension seats

**SKYDEX** Impact Mitigating Seat Inserts are available in 3 different performance levels which are made from different polymers.

**SKYDEX** approved seat manufacturers can integrate **SKYDEX** Seat Inserts into foam cushions to improve comfort and performance.

**SKYDEX** utilizes geometries and polymer structures for cushioning and impact absorption.

**SKYDEX** engineers its technologies to meet specific requirements for performance and durability.

**SKYDEX** technology is proven to excel in the most demanding conditions, from impact-absorbing components in bomb suits to high performance running shoes.

**MILITARY TESTED & PROVEN**

**SKYDEX** decking is in over 24,000 military vehicles and 6,000 marine craft
US Navy – Coast Guard – Riverine – Special Forces – Marine Corps – Army

**SEATING + DECKING = AN INTEGRATED SOLUTION**

**SKYDEX** Impact Mitigating Boat Decking is available in a range of products and thicknesses, depending on the level of shock mitigation required. Metrics demonstrate how **SKYDEX** decking can reduce the effects of whole body vibration (WBV) across a wide range of sea conditions.

**SKYDEX** - UK & EU contact:
Shock Mitigation Solutions
www.shockmitigation.com
skydex@shockmitigation.com