



IMBDO

Impact Mitigating Boat Decking

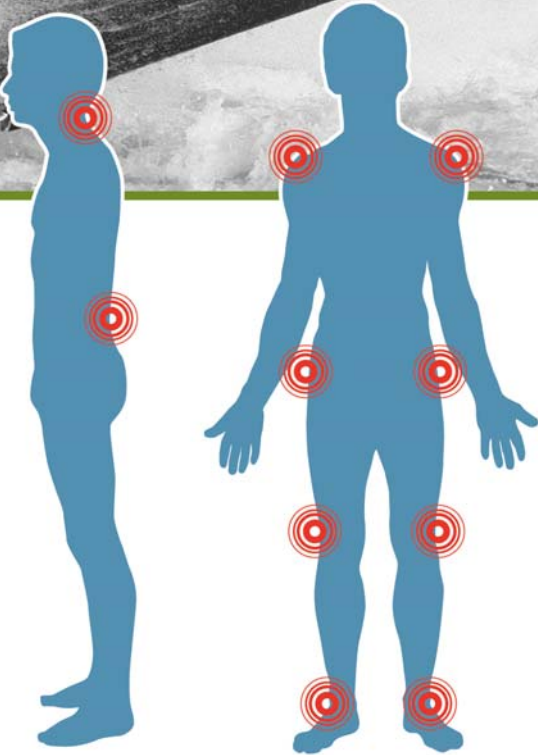


SKYDEX[®]



Protecting Things That Matter





PROBLEM STATEMENT

- Even in moderate sea conditions boat drivers and passengers experience pain and fatigue
- Repetitive impacts lead to ankle, knee, lower back, hip and neck injury
- Vibration and impacts can reduce operational effectiveness and affect cognitive skills
- Human factors are now considered part of the RHIB and high Speed Craft design process

The SKYDEX Solution

IMBD utilizes SKYDEX's patented spring-like twin hemisphere design to cushion impact and absorb vibration, drastically reducing the amount of pain and fatigue experienced on the water.

IMBD Combines Two Technologies

Twin hemisphere Base:

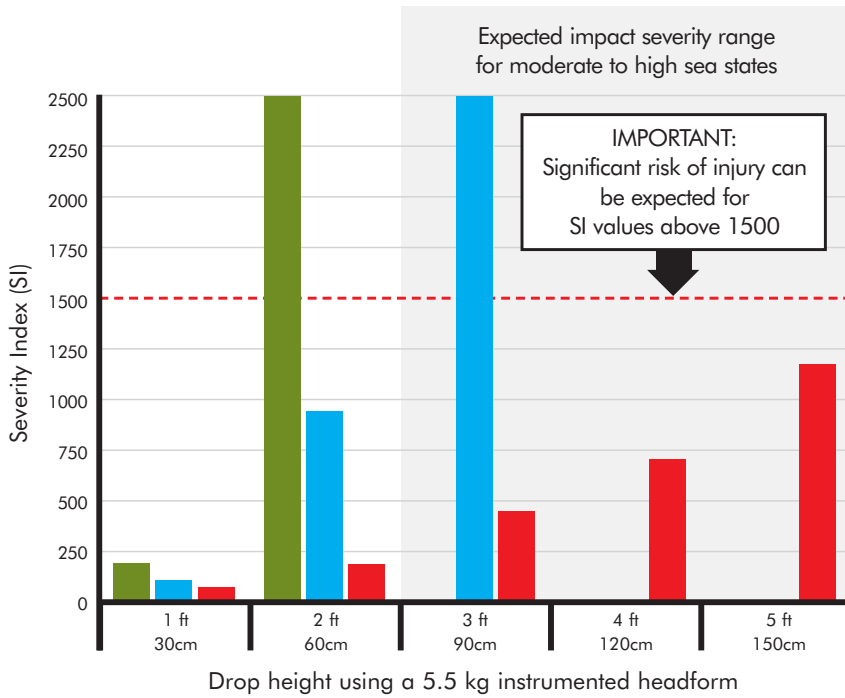
- >> Shock Mitigating Properties
- >> Reduces Vibration
- >> Decreases Effects of Impacts
- >> Sound Absorbing Properties
- >> Stable Underfoot in All Conditions
- >> Heat & Cold Insulating Properties
- >> Water Drains Through



Cross hatch Top Surface:

- >> Anti-Slip Even When Wet
- >> Dual Density Urethane Surface
- >> Traction Surface for Deck Cargo
- >> Durable Military Specifications
- >> Shell Case and Puncture Resistant
- >> Fuel and Chemical Tolerant
- >> UV Protection

Impact Comparison



Tests illustrate the benefits of IMBD's progressive and constant response that allows for consistent performance in a broad range of conditions. Results show IMBD's superior ability to absorb shock in high seas, while others bottom out

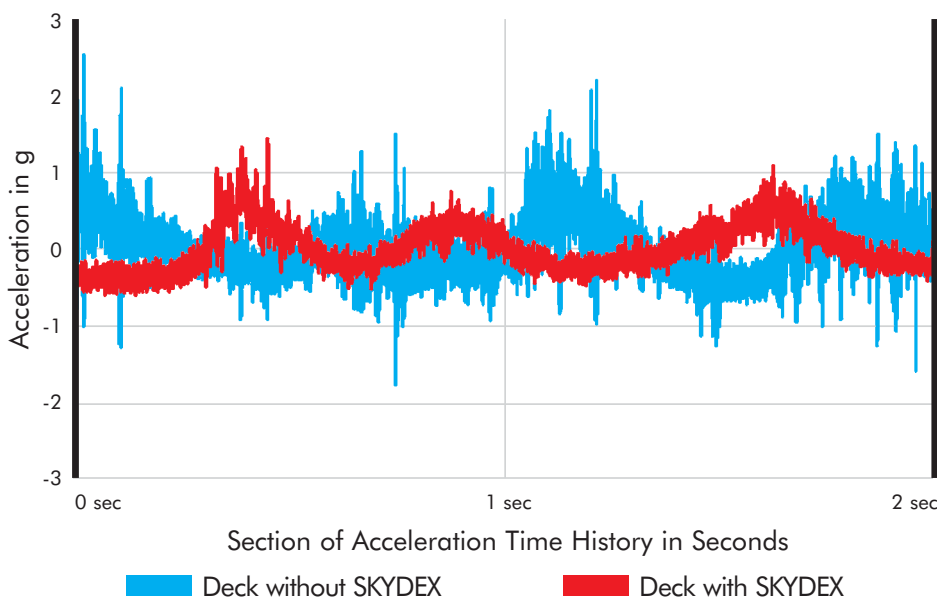
- 3/4" Ensolite/Treadmaster
- 1 1/4" High Density Foam
- 1 1/4" SKYDEX IMBD

Limitations of Foam and Rubber Products

- Lack of stability, leads to fatigue
- Body weight causes foam to compact
- Absorbs water and blocks drainage
- Stiffens in cold temperatures

Vibration at Sea

Results demonstrate that IMBD reduces vibration and the effects of impacts at sea.



- >> Craft: 20' Avon RHIB
- >> Average Speed: 20 knot
- >> Conditions: Short Swell
- >> Average Wave: 3'



Relating the benefits

IMBD is lightweight and can easily be installed on new build and retro fit projects. Product is easily cut to size and can be permanently bonded to any deck surface.

- >> **Weight benefit:** IMBD required to cover the 8 man crew area of a 25' RHIB is approximately the weight of one suspension seat
- >> **Cost benefit:** IMBD required to cover the 8 man crew area of a 25' RHIB is approximately the cost of one suspension seat
- >> **Human benefit:** the average cost of IMBD required per man can be compared to one week of paid sick leave for a professional boat operator



FURTHER INFORMATION
Email: info@shockmitigation.com
Tel: +44 (0)1425 280976
www.shockmitigationsolutions.com

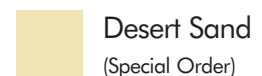


IMBD Sizes and Colours

Thickness 1³/₁₆" (30mm)

IMBD TILES	30" x 15"	760 x 380mm	2.5 kg	5.5 lbs
IMBD HALF SHEETS	90" x 30"	2280 x 760mm	15 kg	33 lbs
IMBD FULL PANELS	90" x 60"	2280 x 1520mm	30 kg	66 lbs

IMBD Transition Edge Molding: 45° design to protect edges and reduce trip hazards



**NOTHING COMES CLOSE TO THE PERFORMANCE OF
 SKYDEX BOAT DECKING IN THE MARINE ENVIRONMENT**

- John Haynes, Director - Shock Mitigation