

DELTA  
THREE  
OSCAR

**SF AERO**

**KNEE PROTECTION**

**BODY PROTECTION**

**LOAD CARRIAGE**

**HAND PROTECTION**



**SF AERO**

D3O® Aero is available for simple integration of D3O® patented technology into product ranges.

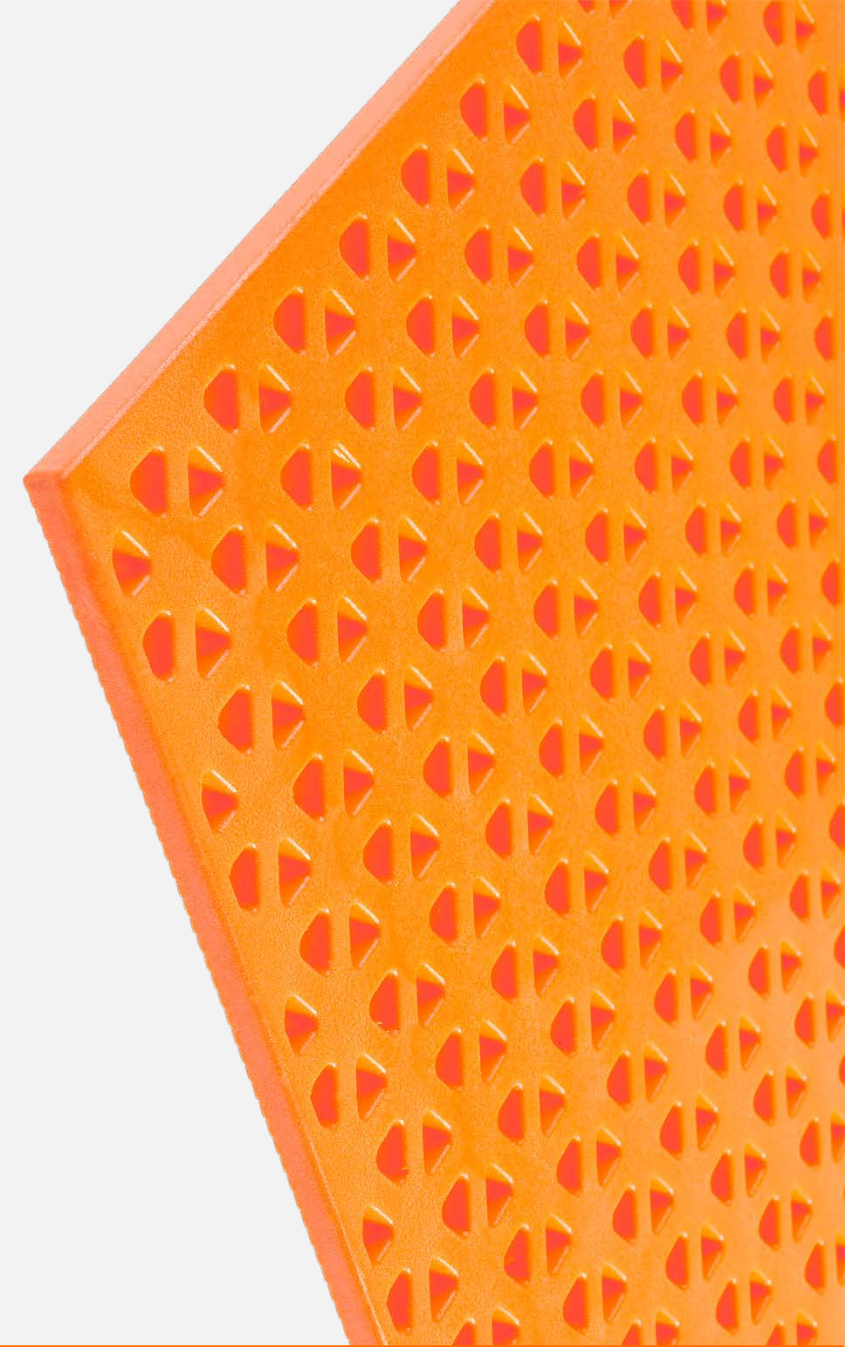
- Lightweight, soft, flexible and versatile material
- Optimised for low to moderate impact energies
- Frequently used for helmet liners, palm padding, back of hand protection and strike face protection for hard armour
- Simple integration means the product development process can be greatly accelerated
- Available in two thicknesses



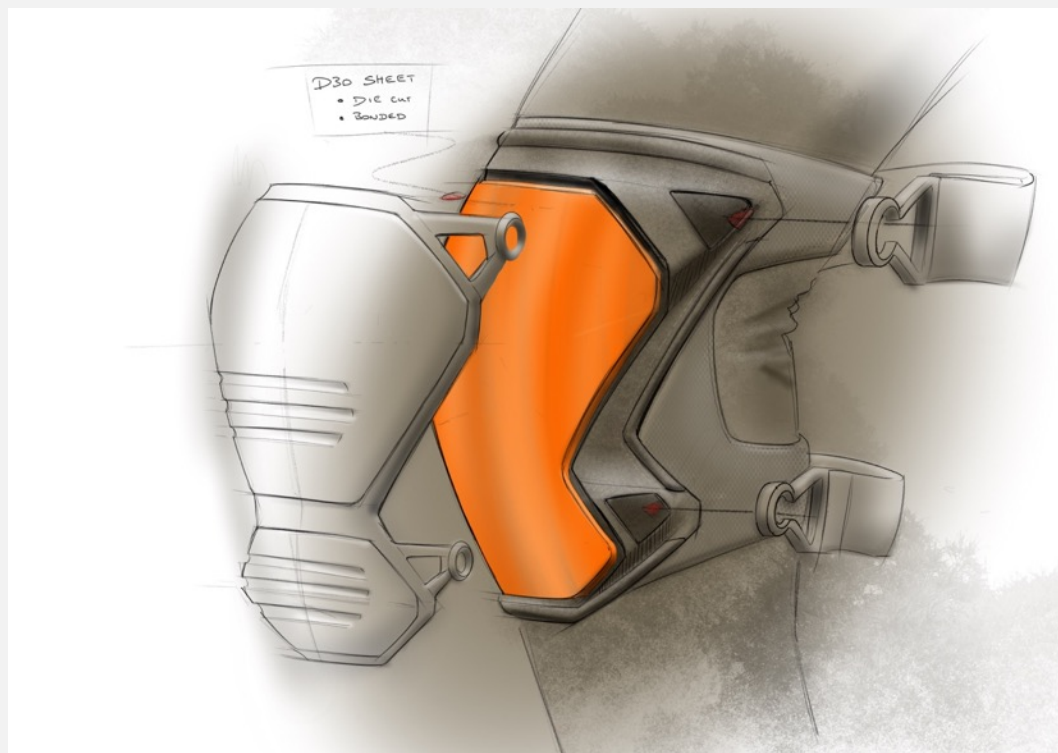
**SF AERO TRIVENT**

D3O® Aero is available in **TriVent** form for enhanced breathability.

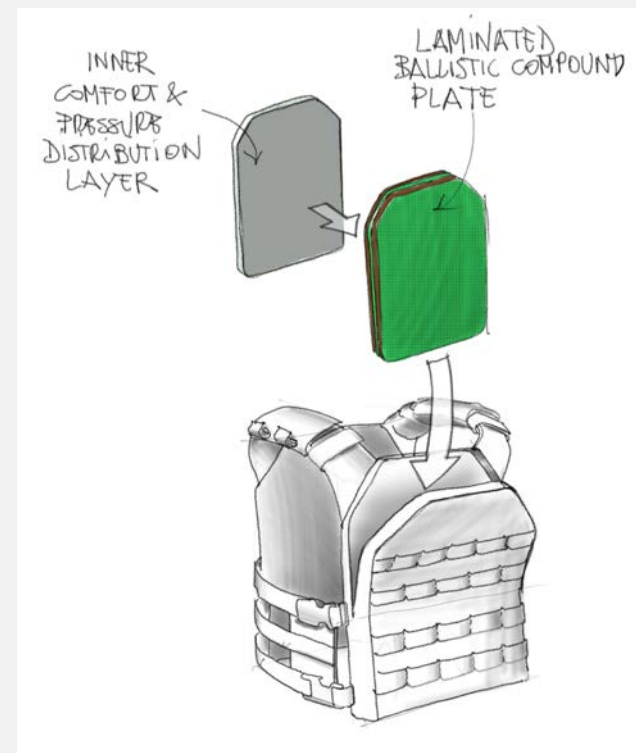
- **Ventilated design:** Open geometry delivers increased airflow and ventilation
- **Cushioning:** Open geometry allows material to collapse and offers greater cushioning
- **Versatility:** Suitable for wide range of applications
- **Size & Yield:** Increased sheet size offers greater yield and geometry allows for easy die-cutting alignment
- **Available thicknesses:** 4, 6mm



# SF AERO SUGGESTED APPLICATIONS



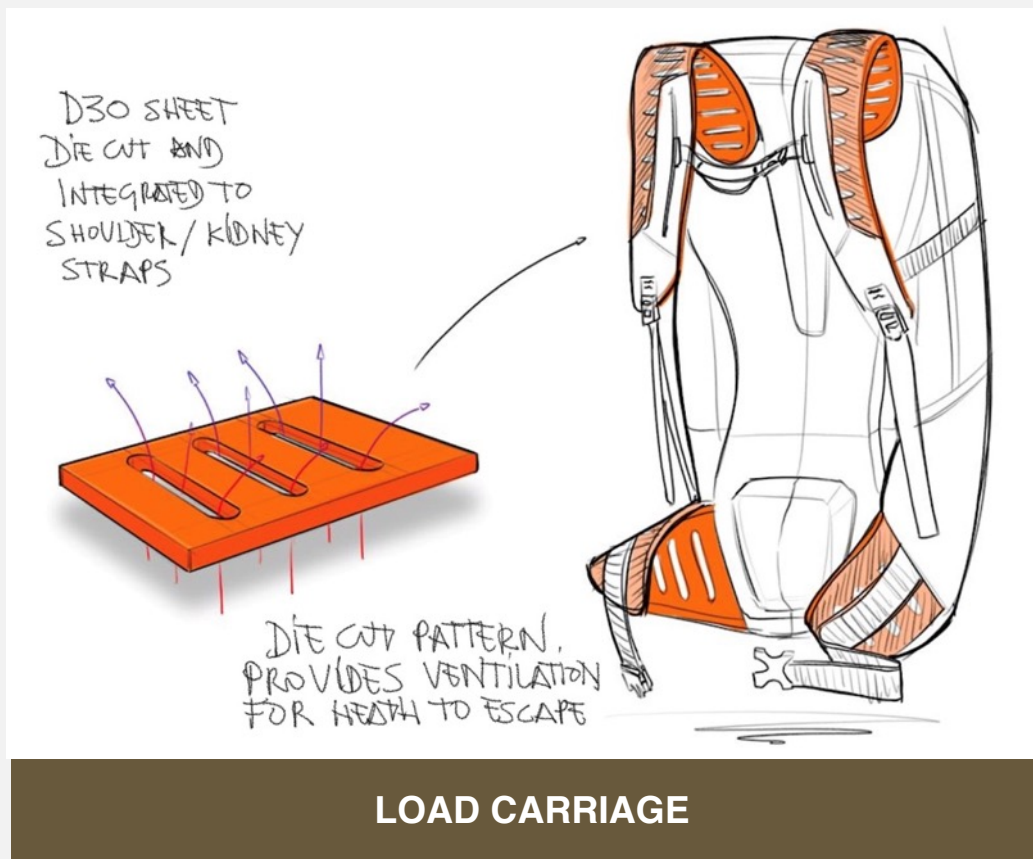
KNEE PROTECTION



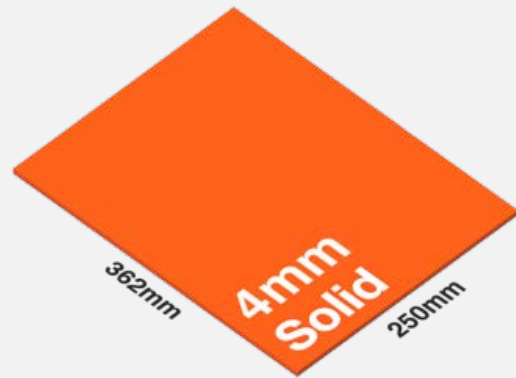
BODY PROTECTION



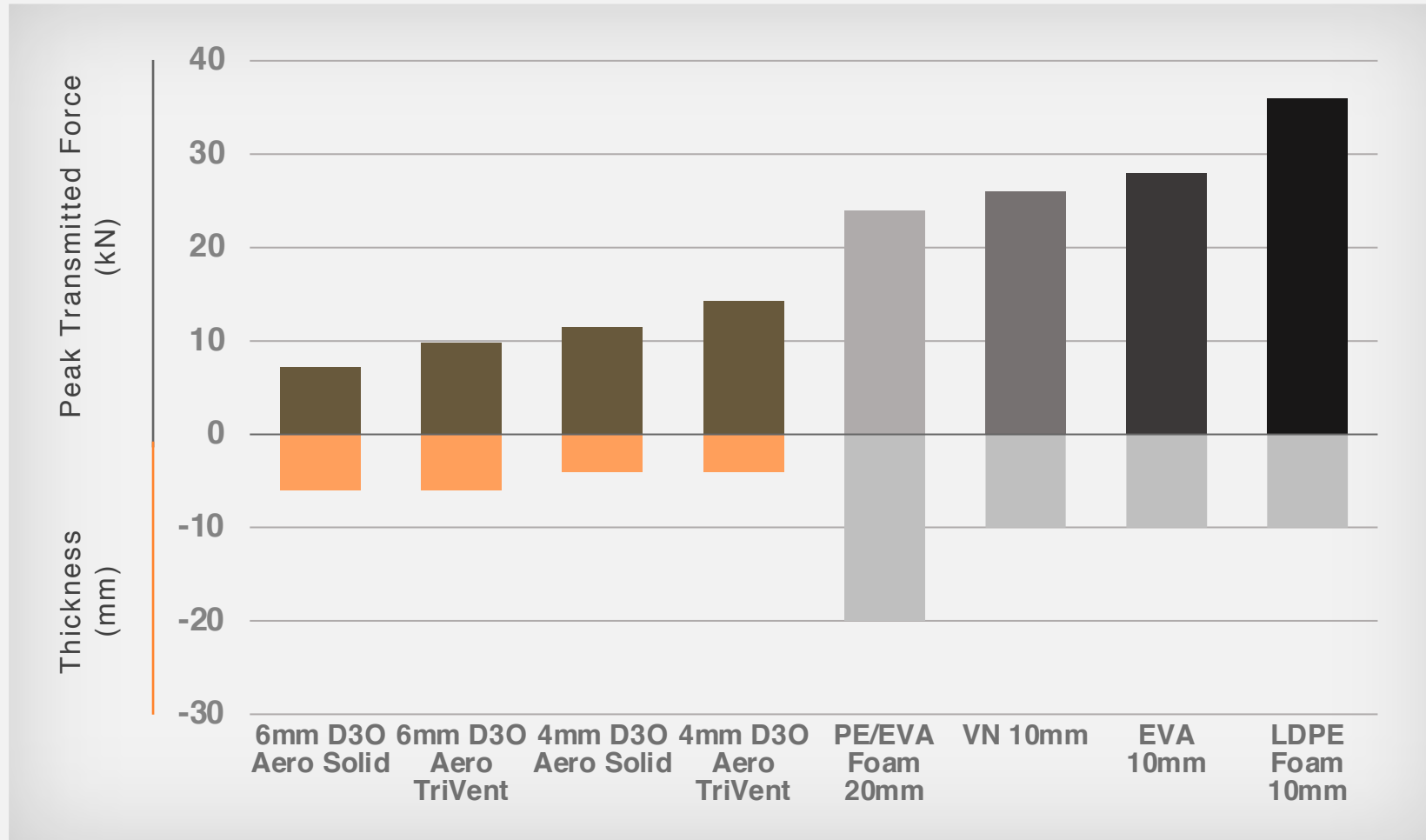
# SF AERO SUGGESTED APPLICATIONS



# SF AERO AVAILABLE THICKNESSES



# SF AERO IMPACT PROTECTION



**Impact Energy: 10J**  
The lower the Peak Transmitted Force, the higher the impact protection

# SF AERO PROPERTIES

Product Name	Units	Method Reference	Aero Solid 4mm Sheet - 369 x 255mm	Aero Solid 6mm Sheet - 369 x 255mm	Aero TriVent 4mm Sheet - 490 x 290mm	Aero TriVent 6mm Sheet - 490 x 290mm
Product Code	-	-	11191	11192	14206	14207
Colour	-	-	Orange	Orange	Orange	Orange
Dimensions	mm	-	369 x 255	369 x 255	490 x 290	490 x 290
Thickness	mm	-	4	6	4	6
Weight	g	-	139	186	157	199
Material Code	-	-	SF010	SF010	SF010	SF010
Material Type	-	-	Set Foam	Set Foam	Set Foam	Set Foam
Hardness	Shore 00	ASTM D2240 - 05 (2010)	46			
Density	g/cm <sup>3</sup>	ISO 845: 2009	0.37	0.33	0.35	0.3
Material Tensile Strength	N/mm <sup>2</sup>	ISO 1798:2008	0.6			
Material Elongation at Break	%	ISO 1798:2008	164.3			
Material Split Tear Strength	N/mm	SATRA TM65	0.3			
Material Flexural Modulus	MPa	DTS052	0.4			
Material Tensile Modulus	MPa	DTS061	0.56			
Material Deceleration (4.5J)	g	DTS002-2	26.4			
Material Accelerated ageing (heat)	%	BS EN ISO 2440:2000	11			
Material Accelerated ageing (humidity)	%	BS EN ISO 2440:2000	-17.3			



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# FURTHER INFORMATION

For full details including material properties and product tolerances, please request SOQ document from a Delta Three Oscar representative. The information provided is not intended to and does not create any warranties, expressed or implied, including any warranty of merchantability of fitness for a particular purpose. This data sheet shall not be reproduced or amended without the written consent of Design Blue Limited.

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