

DELTA
THREE
OSCAR

SF ST

LIMB PROTECTION

HAND PROTECTION



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

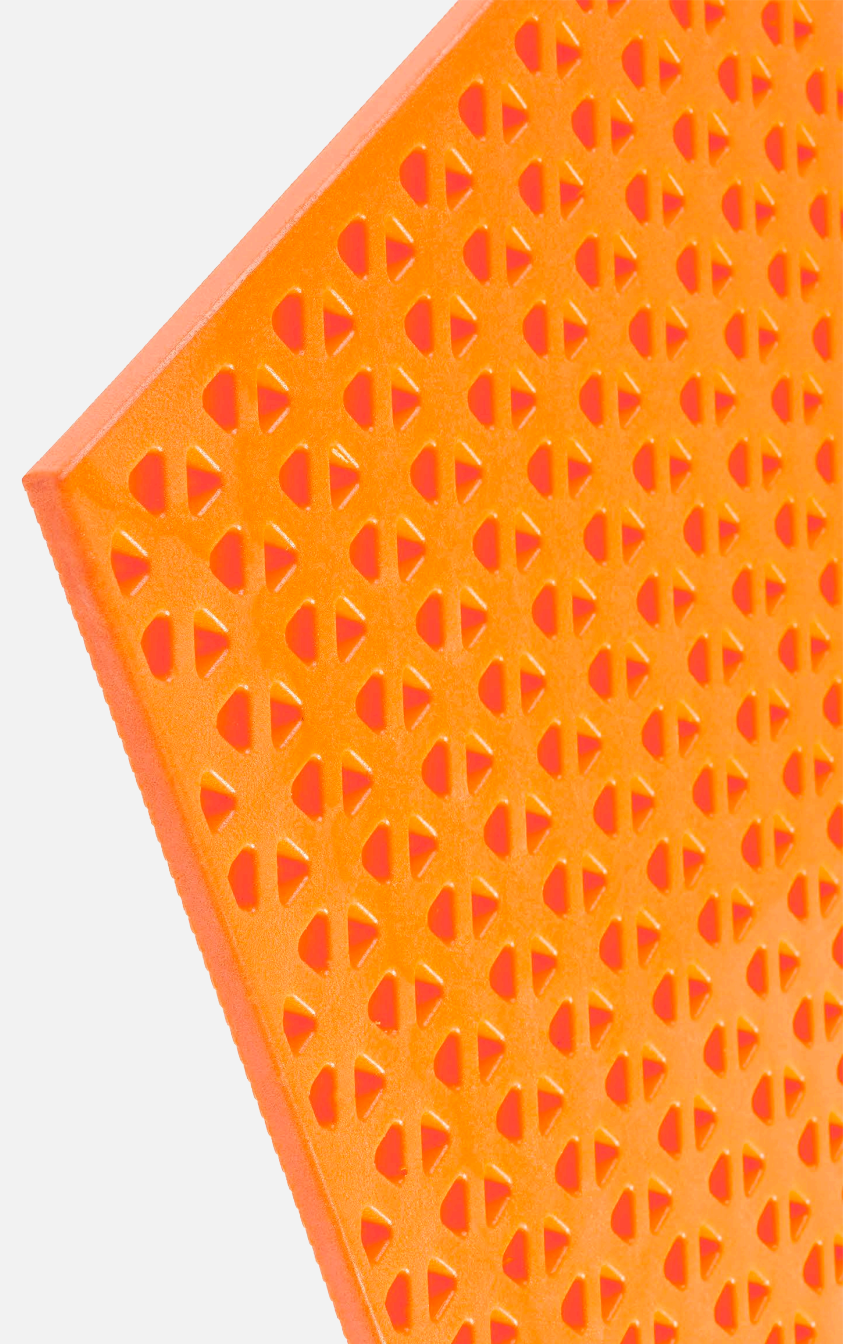
- Soft, flexible and versatile material
- High levels of shock absorption
- Designed for markets where high impact energies are experienced
- Frequently used within knee, elbow, back and chest protectors
- Mesh options allow for increased breathability
- Simple integration means the product development process can be greatly accelerated
- Available in a range of thicknesses.



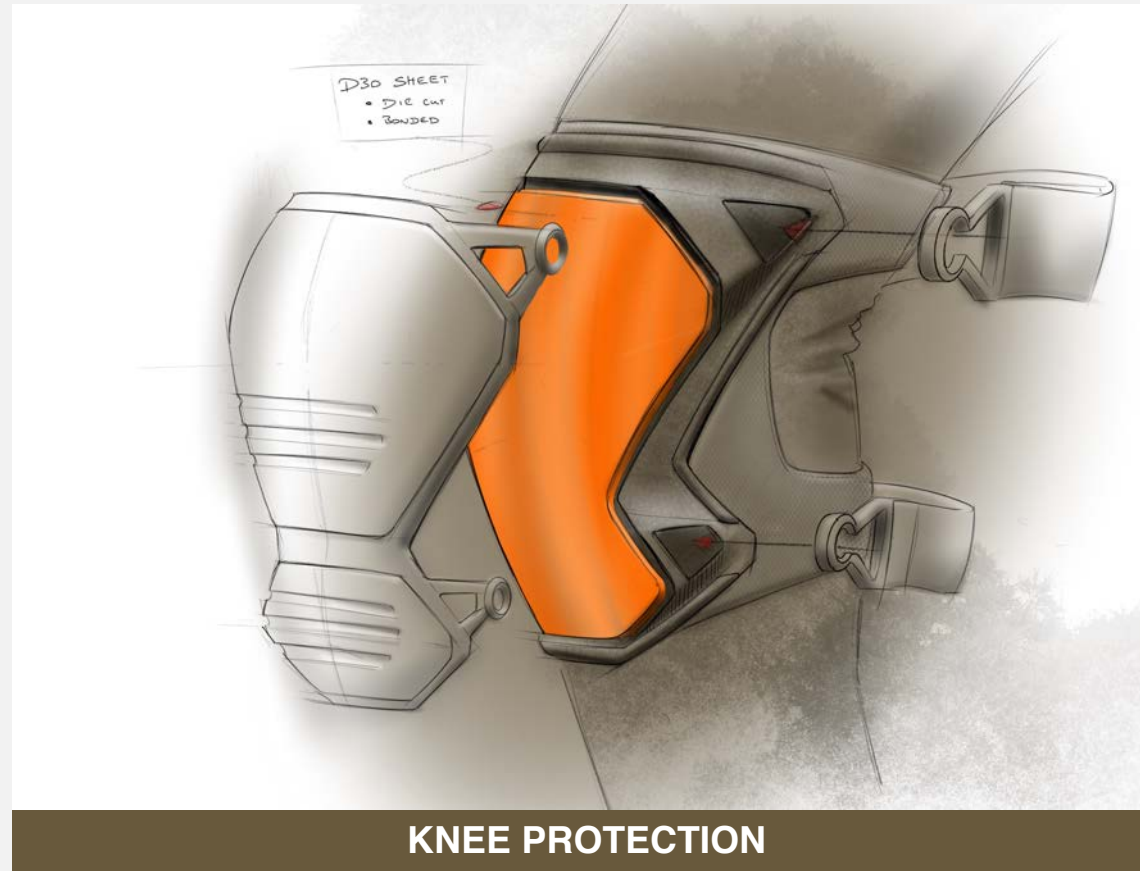
SF ST TRIVENT

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

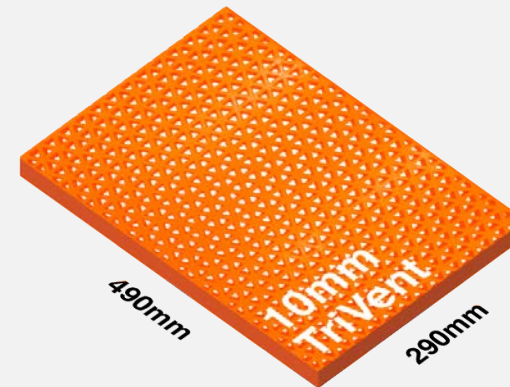
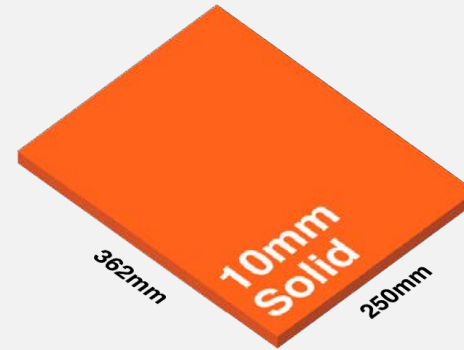
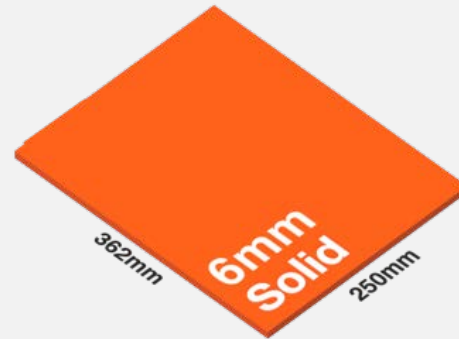
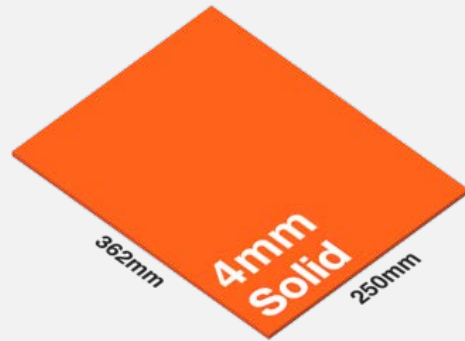
- **Ventilated design:** Open geometry delivers increased airflow and ventilation
- **Cushioning:** Open geometry allows material to collapse and offers greater cushioning
- **Versatility:** Suitable for wide range of applications
- **Size & Yield:** Increased sheet size offers greater yield and geometry allows for easy die-cutting alignment
- **Available thicknesses:** 4, 6, 10mm



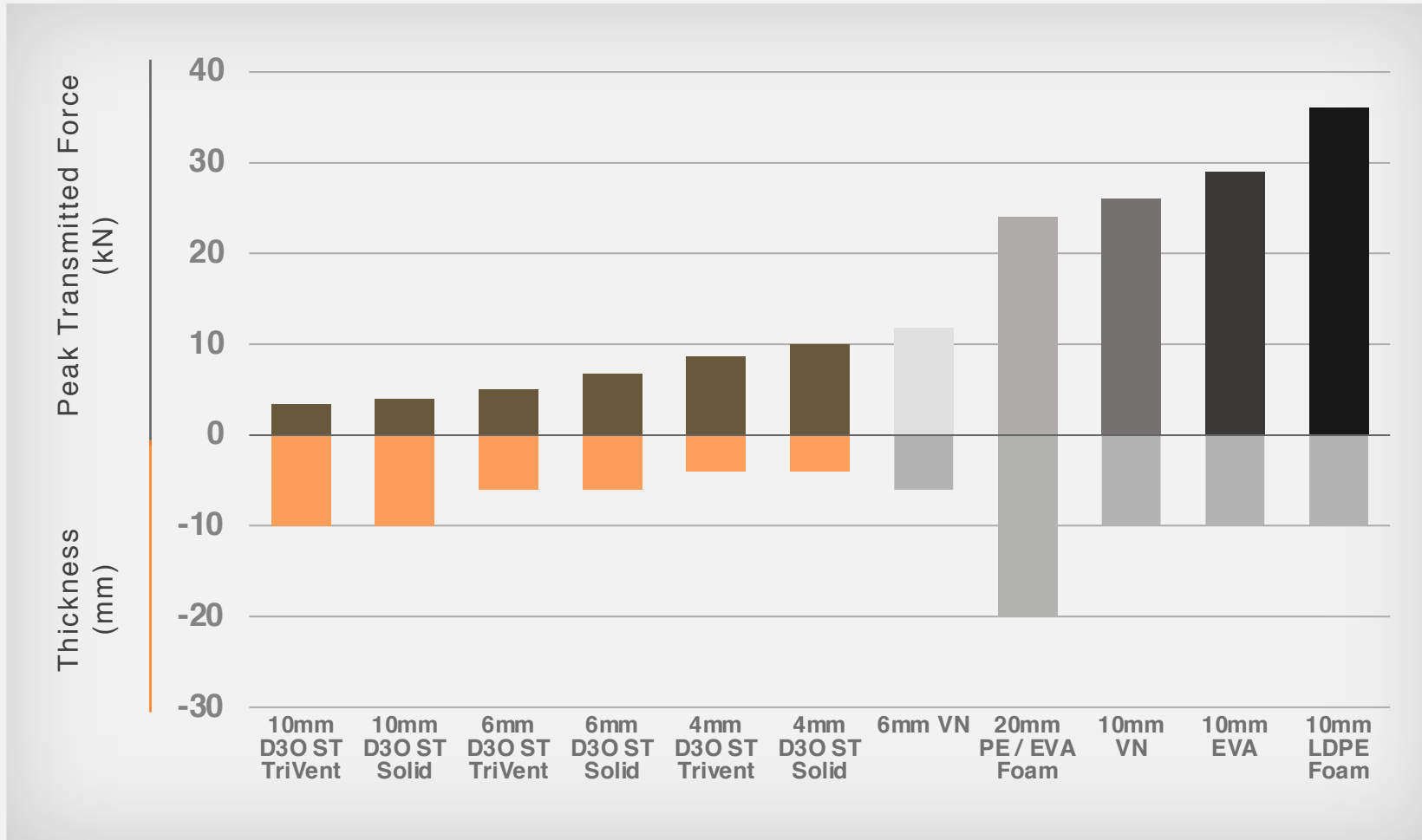
SF ST SUGGESTED APPLICATIONS



SF ST AVAILABLE THICKNESSES



SF ST IMPACT PROTECTION



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



SF ST PROPERTIES

Product Name	Units	Method Reference	ST Solid 4mm Sheet – 369 x 255mm	ST Solid 6mm Sheet – 369 x 255mm	ST Solid 10mm Sheet – 369 x 255mm	ST TriVent 4mm Sheet – 490 x 290mm	ST TriVent 6mm Sheet – 490 x 290mm	ST TriVent 10mm Sheet – 490 x 290mm
Product Code	-	-	10620	10983	14259	14208	14209	14210
Colour	-	-	Orange	Orange	Orange	Orange	Orange	Orange
Dimensions	mm	-	369 x 255	369 x 255	369 x 255	490 x 290	490 x 290	490 x 290
Thickness	mm	-	4	6	10	4	6	10
Weight	g	-	188	282	470	234	319	477
Material Code	-	-	SF001	SF001	SF001	SF001	SF001	SF001
Material Type	-	-	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam
Hardness	Shore 00	ASTM D2240 - 05 (2010)	73.6					
Density	g/cm ³	ISO 845: 2009	0.5	0.5	0.45	0.52	0.48	0.45
Material Tensile Strength	N/mm ²	ISO 1798:2008	1.5					
Material Elongation at Break	%	ISO 1798:2008	193.9					
Material Split Tear Strength	N/mm	SATRA TM65	1.5					
Material Flexural Modulus	MPa	DTS052	1.4					
Material Tensile Modulus	MPa	DTS061	1.2					
Material Deceleration (4.5J)	g	DTS002-2	20.5					
Material Compression Set	%	EN ISO 1856	0.7					
Material Water Absorbency	%	DTS028	6					
Material Accelerated ageing (heat)	%	BS EN ISO 2440:2000	9.6					
Material Accelerated ageing (humidity)	%	BS EN ISO 2440:2000	-1.7					



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 or 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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