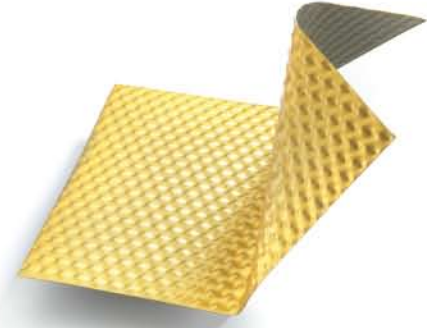


## ZircoFlex® *FORM* – Create heat-resistant structural shielding

It is now possible to create structural heatshields thanks to Zircotec's newest heatshield, ZircoFlex® *FORM*. This more rigid, stainless steel heatshield combines Zircotec's proven ceramic coating protection together the strength and ability to form structures such as heatshields, boxes and bulkheads. Thanks to its ability to solve multiple heat issues, including both reflective and conductive heat sources with gold and black surface treatments, ZircoFlex® *FORM* delivers a compelling mix of strength, weight, structure and heat resistance.



**Cooler and quieter** - In addition to the heat benefits, initial testing suggests that *FORM* can also provide acoustic damping, ideal for both classic car owners who enjoy longer touring drivers where unwanted noise can increase driver and passenger fatigue as well as endurance racers where noise can prove tiring and an unwanted distraction.

**Flexible** - Like the entire ZircoFlex® range, *FORM* has been created to be easy to use, with no requirement for special tools to create an effective solution for any car. *FORM* can be bent, cut and formed to shape, making it easy to fit in any application where heat is an issue.

**Part numbers and sheet sizes** for Yellow Gold finish on one side and Metallic Black on the other.

ZF-FS-1-1	1100 x 800mm
ZF-FS-1-2	800 x 600mm
ZF-FS-1-3	600 x 400mm

### Specification and Data

<b>Construction:</b>	Core of embossed (type 304) stainless steel sandwich between two layers of Zircotec's proprietary ThermoHold® based ceramic thermal barrier material.
<b>Material thickness:</b>	0.8mm (+/- 0.15mm)
<b>Product thickness:</b>	1.6mm (+/- 0.2mm)
<b>Weight:</b>	2.9kg/m <sup>2</sup>
<b>Thermal Conductivity:</b>	-0.3 W/m <sup>2</sup> K at 200°C <sup>1</sup>
<b>Used as a contact heat shield:</b>	Measured surface temperature reductions <sup>2</sup> : -83°C for hot surface of 200°C -118°C for hot surface of 300°C -149°C for hot surface of 400°C -180°C for hot surface of 500°C
<b>Used as an offset heat shield:</b>	Measured source to receiver temperature reductions <sup>3</sup> : -260°C for source temperature of 300°C -528°C for source temperature of 600°C
<b>Temperature ceiling:</b>	Tested to 900°C (hot side temperature)

1. Tests based on guarded hot plate method in accordance with BS874 Pt 2 (1986).
2. Tests based on SAE International Standard SAE J1361 (Nov. 2013); Surface Vehicle Recommended Practice.
3. Based on standard Zircotec offset heat shield method by which the heat source and heat receiver are located vertically 25mm apart, with receiver painted matt black for maximum heat absorption. The heat shield material to be tested is placed vertically mid-way between the heat source and heat receiver

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