

# SolarΣSHIELD®

THERMAL SHIELD PROTECTION BY STEDFAST

## SolarΣShield®

SolarΣShield® is a 3D multi-laminated spacer fabric providing significant solar and heat load reduction. The layered construction allows multispectral signature management against infrared, visual, and UV detection.

SolarΣShield® technology reduces the effects of solar loading while controlling temperature rise inside vehicles, container systems, and shrouds. SolarΣShield® is particularly efficient in temperate and hot climate zones, effectively maintaining temperatures across thermal bands.

### 1<sup>st</sup> External layer

Proprietary polymer technology  
Which incorporates flame resistance,  
IR, low gloss, and anti-slip properties.

### 2<sup>nd</sup> Layer

The carbon polymer layer which provides  
enhanced absorption of thermal  
radiation, IR, and flame resistance.

### 3<sup>rd</sup> Layer

Flame resistant high  
performance woven scrim.

### 4<sup>th</sup> Layer

The aluminized layer, which acts as  
a second line of defence against  
thermal radiation.

### 5<sup>th</sup> Layer

3D spacer fabric, which provides  
ventilation to evacuate heat  
through convection.



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**SolarΣShield® is specifically designed to offer optimal radar, visual, and infrared protection.**

*Tested By and Actively Used in Theatre with Canadian Forces*

**Product benefits when used in conjunction with SolarΣShield®:**

- Internal temperature reduction of at least 45° F
- Thermal infrared (TIR) to eliminate detection through thermal background matching
- Near infrared camouflage (NIR)
- Embedded fire retardants
- Radar signature reduction
- Non-slip walk areas
- Fuel and energy consumption reduction
- Maintenance cost reduction
- Extended shelf life of ammunition and electronics



230 St. Charles S.  
Granby, QC, J2G 3Y3  
Toll Free: (888) 673-8441

800 Mountain View Drive  
Piney Flats, TN, 37686  
Toll Free: (888) 673-8441

[stedfast.com](http://stedfast.com)



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