

SOLARΣSHIELD



The SOLARΣSHIELD – pronounced solarsigmashield – is a simple and affordable solution for solar heat load reduction and multispectral signature management. It can be designed for and installed on any system operating in harsh climate.

APPLICATIONS

- Vehicles
- Weapon systems
- Command and control centres
- Tanks and reservoirs
- Sea containers and shelters
- Electronic systems (EO modules, control units, etc.)
- Any fix or mobile system operating in harsh climate

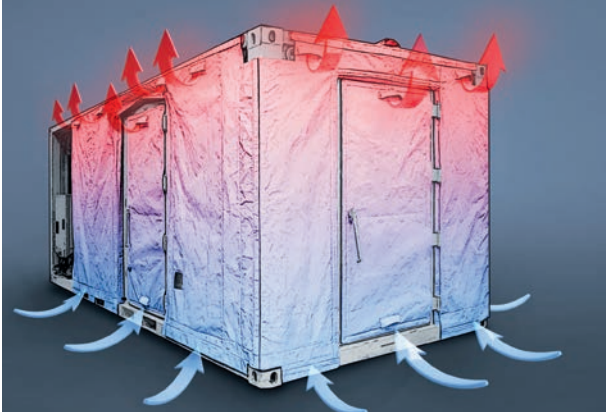
KEY CHARACTERISTICS

- Modular and customizable
- Easy to install and to remove
- Robust and long-lasting
- Proven in battlefield conditions
- High fire resistance (ISO 6940)
- Non-slip/skid add-ons for walking areas
- No interference with host system

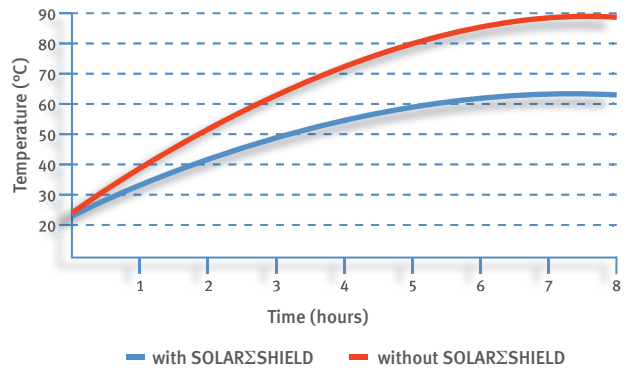


HEAT LOAD REDUCTION

SOLARΣSHIELD is a patented fabric designed and tested by Defence Research and Development Canada, battlefield proven by the Canadian Forces that allows a significant solar heat load reduction on systems, by natural air convection and artificial shadow.



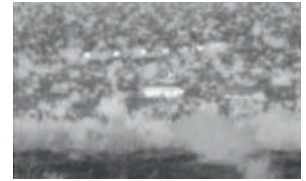
- Significant reduction of heat stress on personnel and equipment
- Substantial air conditioning power savings (fuel /electricity)
- Enhancement of system reliability and expected life time
- Internal system temperature reduction of up to 25°C



SIGNATURE MANAGEMENT

SOLARΣSHIELD is a layered fabric system allowing multi-spectral signature management against thermal, visual, radar and ultraviolet detection. SOLARΣSHIELD is customized and tailored specifically to fit each system and operational requirements.

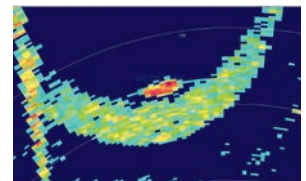
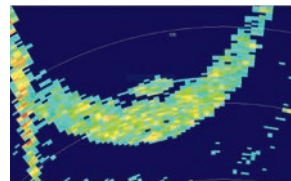
- Thermal
 - Significant reduction of thermal signature
 - Remarkable thermal adaptation to environment temperature variations (e.g. sunset/sunrise)
- Visual camouflage
 - Wide range of camouflage fabrics available in various colours and patterns, plain or textured
 - Selected and customized to environment of operation and customer requirements
- Radar
 - Blended radar signature reduction of up to 10 dB
 - Customized to system geometry and opposing forces detection technology
- Ultraviolet
 - Adaptable to snowy environments



Thermal images with and without SOLARΣSHIELD during daytime (left) and night time (right)



Visual camouflage: SOLARΣSHIELD being trialed as a prototype



Radar images with (left) and without (right) SOLARΣSHIELD

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