



GO INCOGNITO

RHEINMETALL SOLARΣSHIELD

The Rheinmetall SolarΣShield – pronounced solar sigma shield – is a simple and affordable solution for solar heat load reduction and multispectral signature management. It is designed for and can be installed on any system operating in harsh climates.

APPLICATIONS

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

KEY CHARACTERISTICS

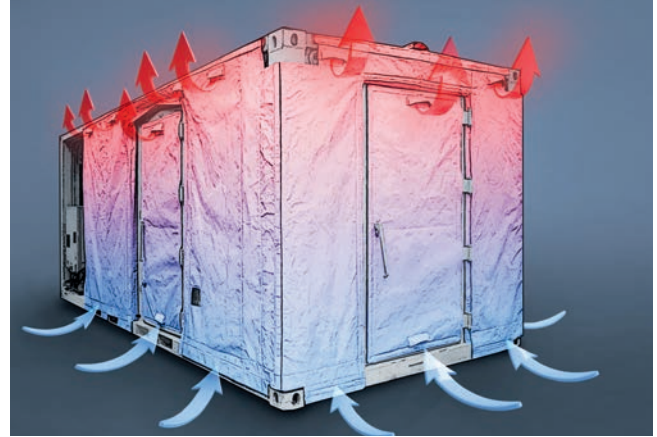
- Modular and customisable
- Easy to install and to remove
- Robust and long-lasting
- Proven in battlefield conditions
- High fire resistance (ISO 6940)
- Non-slip/skid add-ons for walking areas
- No interference with host system



HEAT LOAD REDUCTION

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

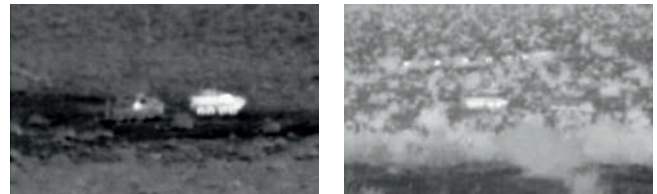
- Significant reduction of heat stress on personnel and equipment
- Substantial air conditioning power savings (fuel/electricity)
- Enhancement of system reliability and expected life time
- Internal system temperature reduction of up to 25°C



SIGNATURE MANAGEMENT

SolarΣShield is a layered fabric system allowing multispectral signature management against thermal, visual, near infrared, radar, and ultraviolet detection. SolarΣShield is customised and tailored specifically to fit each system and operational requirement.

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



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



Visual camouflage: Rheinmetall SolarΣShield being trialed as a prototype

Rheinmetall Canada Inc. - Headquarters

225, boulevard du Séminaire Sud · Saint-Jean-sur-Richelieu (Québec) J3B 8E9 · Canada · www.rheinmetall.ca

Ottawa Office

99 Metcalfe Street, Suite 304 · Ottawa (Ontario) K1P 6L7 · Canada · www.rheinmetall.ca