

STEALTH® Core Panel (SCP)

PRODUCT INFORMATION SHEET

DESCRIPTION Through testing and the experience of thousands of concealment sites constructed, STEALTH® Concealment Solutions, Inc. has determined that the type and placement of materials used for screening antennas play a vital role in their performance. All STEALTH® concealment panels allow for superior antenna signal transmission compared to fiberglass without the durability problems of fiberbloom or cracking over time. STEALTH® panels are engineered and manufactured to become part of the existing structure and withstand extreme weather conditions while maintaining their original appearance.

APPLICATIONS STEALTH® Core panels are typically used for small or specialty antenna concealment products better suited for a solid core panel including louver assemblies, side mounted boxes, detailed trim work and roof replacements. The panel can be factory textured to match most existing architectural appearances, such as brick, stucco, aggregate, split face block, as well as custom applications.

RECOMMENDED FREQUENCIES STEALTH® generally recommends STEALTH® Core panels for frequencies up to 10GHz. However, they perform well for certain application types. STEALTH® has insertion loss lab testing for the STEALTH® Core panels up to 100 GHz at multiple incidence angles and textures. Test results for specific applications are available upon request.

SIZES AVAILABLE STEALTH® Core panels are available in 4' x 8' and 4' x 10' standard sizes. Limited custom sizes are available upon request. Standard available thicknesses are 0.5", 0.625", 0.75" and 1".

PHYSICAL PROPERTIES Physical performance properties of STEALTH® Core panels are listed to the right. Note that the physical properties may vary slightly depending on the thickness of the material selected.

FABRICATION/INSTALLATION STEALTH® Core panels are a solid core material that is suitable for a variety of fabrication techniques. STEALTH® Core panels are generally better suited to factory fabrication as opposed to field fabrication. Due to the critical design aspects of many of its applications, STEALTH® recommends that qualified designers or consultants design a total concealment system to support the panels.

AVAILABILITY STEALTH® maintains inventory of STEALTH® Core panels and has custom manufacturing capability in its facilities in California and South Carolina. Please contact us at (843) 207-8000 for sales information.

TECHNICAL SERVICES STEALTH® can provide technical information and support to address questions when using STEALTH® Core panels. Technical personnel are available via telephone at (843) 207-8000.

I. TYPICAL PROPERTIES			
PROPERTY	UNITS	TEST METHOD	VALUE
PHYSICAL			
Specific Gravity	g/cm ³	ASTM D-792	0.75
Water absorption	%	ASTM D-570	0.30
Shore D Hardness	-	ASTM D-2240	68
MECHANICAL			
Tensile Strength at Yield	psi	ASTM D-638	2800
Elongation at Break	%	ASTM D-638	15
Flexural Modulus	psi	ASTM D-790	180,000
Impact Strength (Izod notched)	ft-lb/in	ASTM D-256	0.3
Dielectric Strength	kv/mm	ASTM D-149	N/A
THERMAL			
Heat Distortion Temperature (under load at 66 psi)	°F	ASTM D-648	140
Coefficient of Linear Expansion	In/in/°F	ASTM D-696	25 x 10 ⁻⁶
Thermal Conductivity	W/m°K	ASTM C-177	0.06

II. FLAMMABILITY STANDARDS		
TEST METHOD	RATING	
UL 94	VO	Passed
UL 94	5V	Passed
UL 48	N/A	Passed

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